

FSB Manual

Door and window fittings

Access management

Barrier-free living



It's in your hand.

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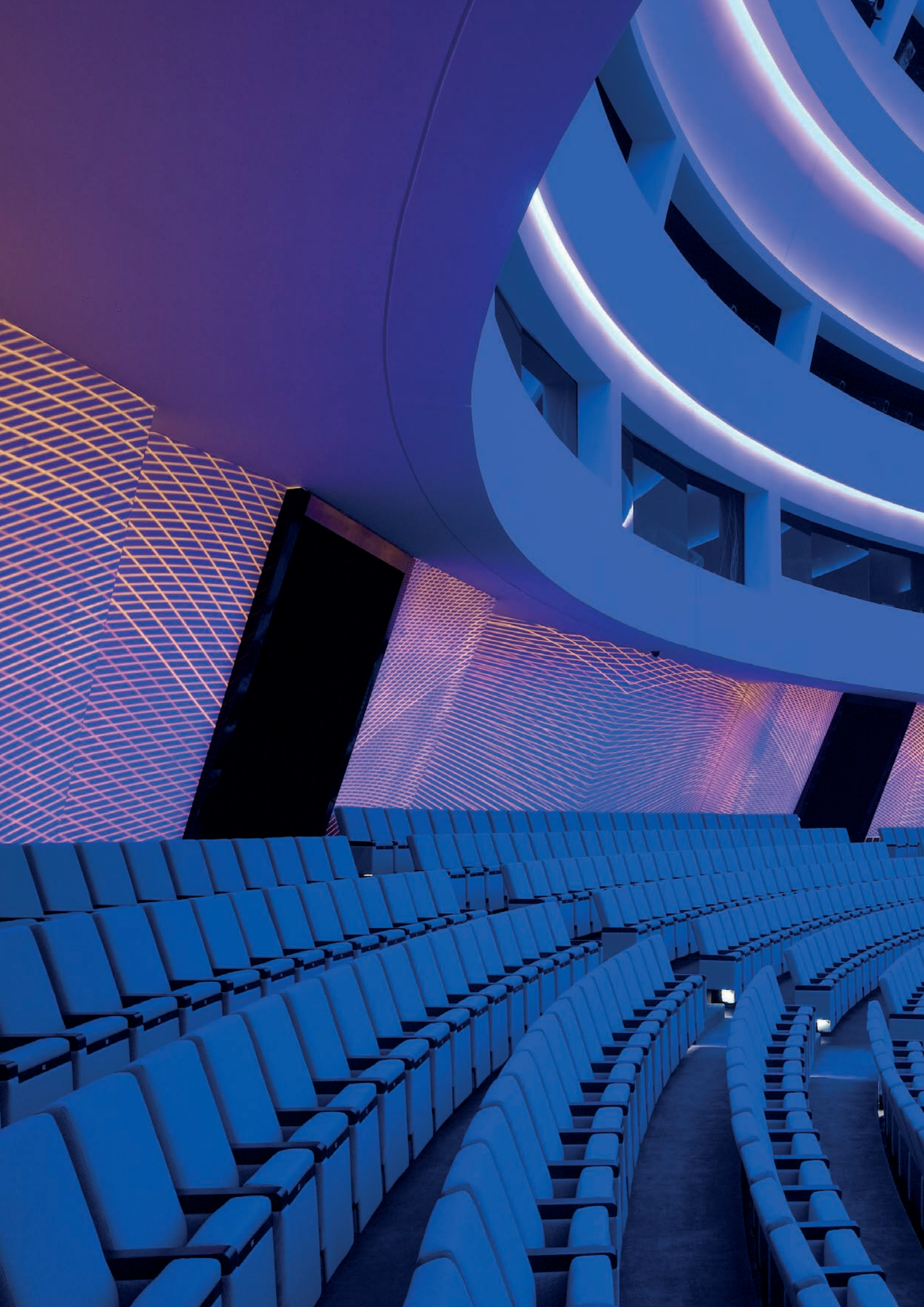
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**Palace of International Forums,
Tashkent | Uzbekistan**

Ippolito Fleitz Group GmbH,
Stuttgart, Zurich, Seoul
www.ifgroup.org

FSB 1003 range of handles,
see page 116 ff.

Flush version,
see page 270 ff.

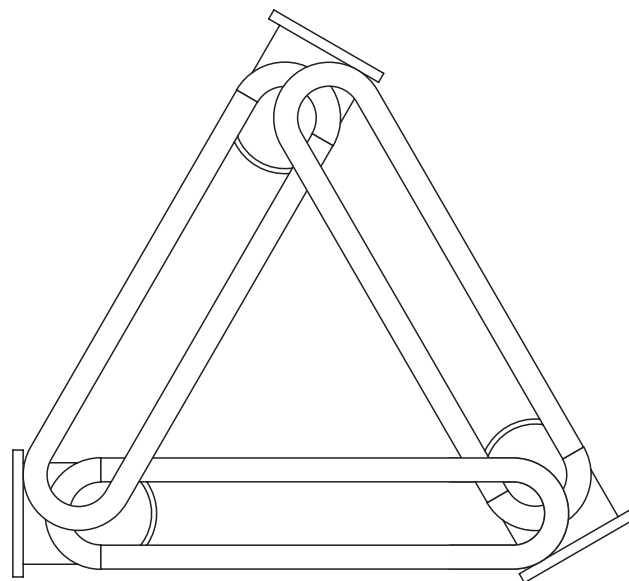
Stainless steel, fine matt, brushed

www.fsb.de/palace_tashkent

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Taking Euclid's angle

Your craftsman's tools for architecture



FSB has its roots in the interaction between design, ergonomics and architecture, and always measures the results of this against the requirements of constructing a building.

The prerequisite for this is, and always was, questioning what is current and familiar, dealing with social change and engaging with new technologies.

The isis systems: electronic access management

The various isis systems stand for – measured against FSB's history – the comparatively new area of system solutions for the electronic organisation of access. In a consistency which is typical for FSB, this area includes both simply structured solutions for domestic entrance doors as well as a demanding system for multi-layered building structures and interrelated organisational requirements. Our solution for entrance doors – isis F100/200/300 – is based on an innovative system with a biometric reader integrated into the door pull. As a multi-dimensional system, the isis system combines classic FSB fittings skills with all of the convenience, flexibility and organisational aspects of an electronic system and is predestined for heterogeneous building complexes and multi-layered user structures. More about the isis systems from page 43.

ErgoSystem® diagonal-oval: Live conveniently & barrier-free

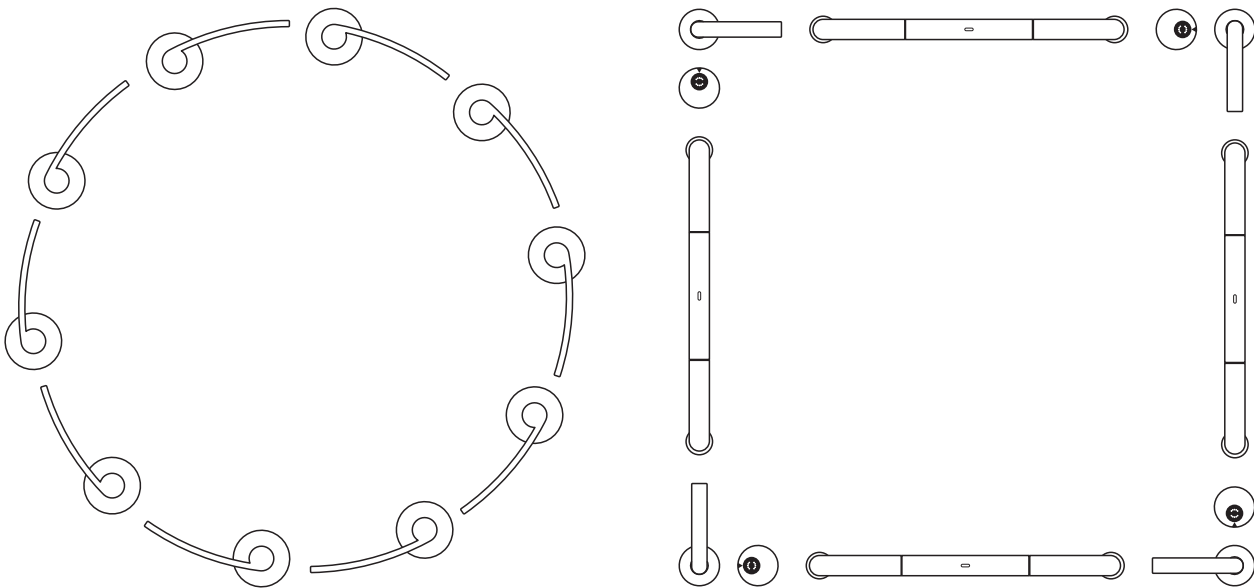
The ErgoSystem® is FSB's barrier-free handle and equipment concept, which combines function, design and convenience and takes account of the needs of people of all ages in the bathroom and sanitary area. We also make it in Brakel, with the handles made of stainless steel, the functional parts made of powder-coated aluminium. This area of competence is also based on the experiences which we collected in the 1980s when reflecting on how humans grip things together with Otl Aicher. The results of scientific cooperation with the Fraunhofer Institute in the 1990s added to this. At the start of this millennium FSB transferred this knowledge to the requirements resulting from changes in the age structure of our population. The declared objective here was not just to develop supports suitable for larger buildings but rather to take particular account of older people's gripping requirements: What does a reduction in muscle power or age-related muscle loss mean for the design of supports? How are supports to be assessed which are relevant for the appearance of a room but which are subject to different dynamic and static requirements than door pulls? The design principle of the ErgoSystem® supports is based on the laws for the ergonomics of gripping and led us to an oval cross section.

For the ErgoSystem®, functionality, aesthetics and ergonomics also make up a convincing whole. Criteria which take account of the variety of requirements in the construction of larger building and homes. (A lot) more about our solutions for barrier-free living from page 617.

Classic fittings for doors and windows and more

The authors and architects range of handles on the one hand and the plethora of door handle designs from FSB on the other hand from the classical modern period have become legendary in the meantime. Their validity in the world of international architecture is not just based on the formal and material consistency of the range of handles but also on the variety of relevant technical and regulatory parameters: so FSB can offer almost all fittings for large buildings as well as for fire doors. Both categories are now equipped with the new, second generation of AGL® or AGL® FS technology.

It gets tangibly classic from page 99.



New: co-ordinated lock and fitting solutions for emergency exit locks from SSF + FSB

In the area of systems of fittings for emergency exits, where components which have been tested and certified together are required, FSB offers the most extensive range in the sector. More about this on pages 16f. and 449f. For frame doors the material and formal consistency applies as well as approval to the pertinent regulatory standards in the same way. This is complemented by a very sophisticated fixing technique which knows no equal in the hardware sector. The range of window handles is similarly well thought through, and it is not just oriented towards window functions as it also provides a wealth of locking and security applications.

Matched up lock and fitting technology

With a view on locks and fittings which had already formed a functional unit in pre-industrial times, at the end of 2009, FSB took over the Sächsische Schlossfabrik (SSF) in Groitzsch near Leipzig. Our objective is to offer locks and fittings with matching technology, combined with functionality which convinces in detail. Based on our efforts towards sustainability, we also wanted to create a particular awareness of quality in the area of locks. We have made a start with locks matching the AGL®

system family in class 5, with frame door locks with an innovative through fixing option for frame door fittings, as well as with locks with special functions which match isis fittings.

Find out actual details about this from page 20.

Sustainability “Made in Germany”

FSB sees the construction of large buildings as an architectural task with a higher level of relevance for society. This results in a product philosophy which aims for a first class and thus sustainable quality. Sustainability and the product features associated with that are not available for free – neither for the building, nor for the supplied components. This is not just about the economically driven reduction of rework or about reducing the level of complaints. This is about creating functional buildings which can be used long term and which meet the individual and thus the social needs of their users. FSB products with EPD certification create a maximum level of reliability for your plans, for the future too, and encourage further innovative approaches for sustainable building – made in Germany, but for a global idea.

FSB. It's in your hands.



“How green is our business?”

Everything gets a green light



Institut Bauen
und Umwelt e.V.



DGNB[®]

Deutsche Gesellschaft für Nachhaltiges Bauen e.V.
German Sustainable Building Council

FSB and our subsidiary SSF Sächsische Schlossfabrik provide an environmental product declaration (EPD) to ISO 14 025 resp. EN 15 804, making a valid contribution to sustainable architecture. Our EPDs cover more than 25,000 items, giving us a leading role in our sector around the world.

We actively support a globally established concept which understands sustainability as an equal balance between ecological, economic and social factors. There is now a global consensus that, in view of the worldwide social and climatic challenges, this understanding of sustainability is of fundamental importance for coming generations' quality of life.

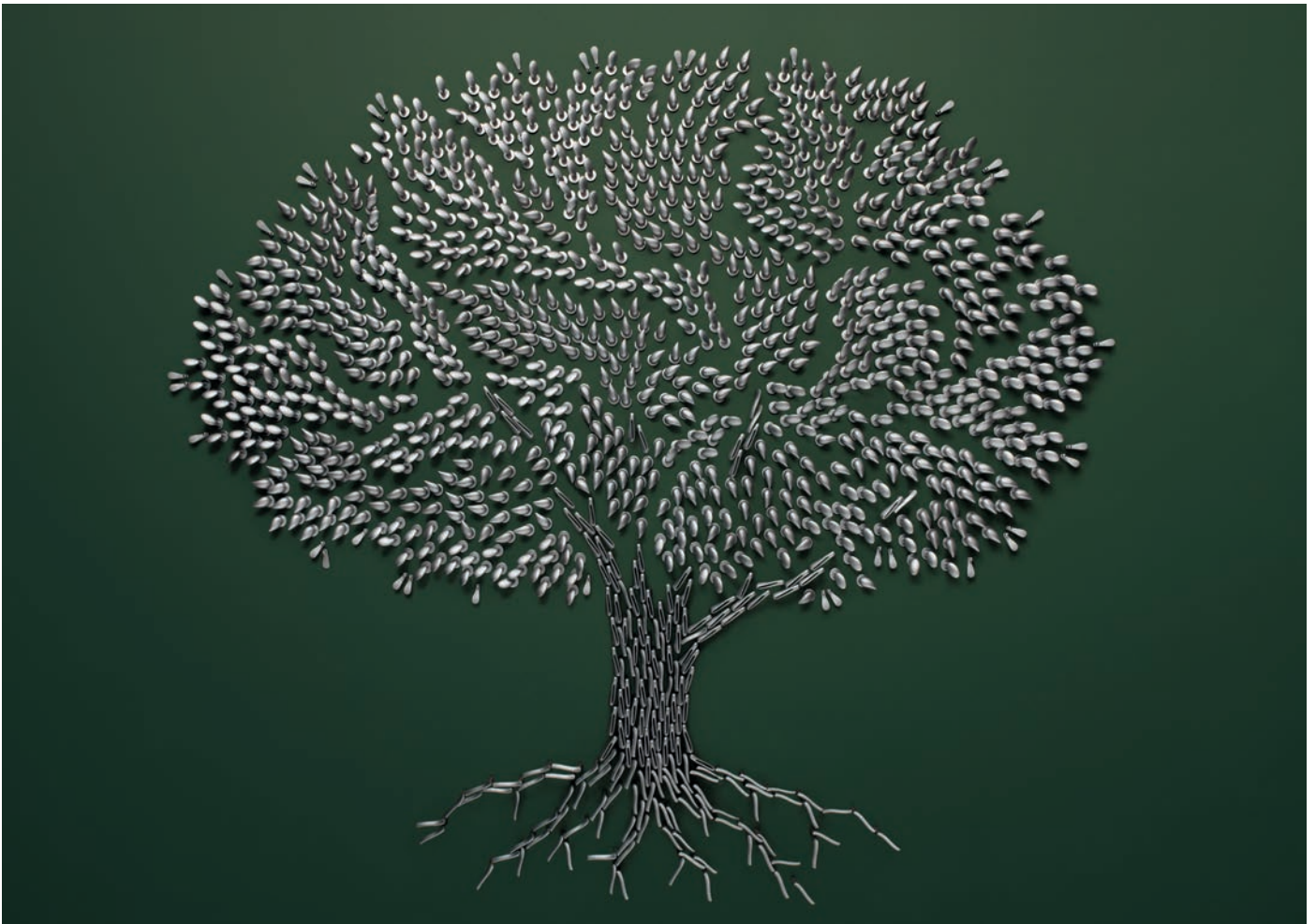
We have always understood our products as “Architecture en miniature”. This does not just mean that our products are used in architecture, rather that we assess technology and design against the length of time that buildings or architecture are used in the widest sense. For us, constructing buildings is first and foremost an architectural task affecting the entire community and we see our products as the interface between people and architecture, to which we have made a satisfactory contribution for over 130 years. The prerequisite for this is a product philosophy aiming for first class quality and thus for sustainability. “Sustainability” – something which everyone is talking about these days – was something on which FSB had already taken action, even when ecology was still viewed as something at the fringe of society, which only concerned those who wore – at least that’s what was said at the time – hand knitted clothes made from natural wool. FSB had already started reflecting on the subject in the 1990s, when “ecology” was still greeted with a weary smile in most companies, with its project entertainingly

called “clean underwear” about ecological effects at our production site in Brakel and what to do with the waste products resulting from production. At the end of 1995, FSB was the first company in North Rhine Westphalia and only the second company in Germany to be audited to the strict rules of the EU’s ecological audit. This was preceded in 1991 by the first company agreement in Germany on the protection of the environment. Over a period of what is now almost twenty years, we still ask ourselves again: “How green is our business?”

Here is FSB’s “green” history:

- 1991 First company agreement in Germany on the protection of the environment
- 1992 Setup of a company organisation which reflects environmental concerns
- 1993 First environmental declaration
- 1994 German environmental prize for the district of East Westphalia Lippe
- 1995 ISO 9001 environmental manual
- 1996 EU eco-audit certification since
- 1996 every 3 years, certification to ISO 14 001 and EMAS
- 2008 Joined DGNB 2009, preparation for ISO 14 025
- 2010 FSB and SSF are the first architectural hardware companies in the world with an environmental product declaration to ISO 14 025
- 2013 Certification of the company-wide energy management system to ISO 50 001
- 2014 Environmental product declaration to EN 15 804





Environmental product declarations to ISO 14 025 resp. EN 15 804 are necessary for the certification of sustainable buildings. The consequence of this approach, which was formulated in 2007 and which amongst other things forms the basis of the EN standard 15 804, is now seen as pioneering around the world. This concept consistently pursues the evaluation of the entire value creation chain over all phases in the the life of a building. The aim is to optimise all factors affecting the life cycle, from the extraction of raw materials, through building and on to demolition. It is not just the materials used to construct a building which are considered but the components used as well. The requirements for this are product-specific ecological balance sheets, which are verifications of product and company data and are produced independently & neutrally. The essential characteristics of ecological balance sheets are not just very specific environmental aspects, but much more the assessment of the entire chain of value creation of a product. In this context, a check is made how the environment is protected while the product is being made and then used, as well as considering how

it can be recycled. FSB's and SSF's environmental product declarations as listed below are available for inspection.

**After all that, the question remains:
"How green is your business?"
It's in your hands.**

FSB declaration numbers:

- door handles, window handles, isis® system made of aluminium:
EPD-FSB-20140131-IBC1-DE
- door handles, window handles, isis® system made of stainless steel:
EPD-FSB-20140132-IBC1-DE
- door handles, window handles, isis® system in bronze or brass:
EPD-FSB-20140133-IBC1-DE
- barrier-free ErgoSystem® (stainless steel):
EPD-FSB-20140134-IBC1-DE

SSF declaration number:

- locks and strike plates:
EPD-FSB-20140135-IBC1-DE

Corresponding environmental product information according to LEED is also available under www.fsb.de/leed

Barrier-free living

The FSB range in the context of DIN 18 040

The so-called senior citizens would like – and it is hardly any wonder – to grow old within their own “familiar” four walls. And even though the above-mentioned standard takes account of contemporary ergonomic knowledge and sensory restrictions and comprehensively documents this in the bathroom and sanitary context, then the quality of a barrier-free design stands out in particular if it is possible to react accordingly not only in acute cases, but rather a room situation can be flexibly adapted during the course of slowly changing needs and continue to be adequately used.

In view of the extensive range of handle and fitting solutions from FSB, which have been developed for a wide variety of room and door situations particularly as part of renovations, we would therefore like to take a look at this complex issue and understand DIN 18 040 not only focused on the sanitary sector or the ErgoSystem® from FSB. The fact that standard regulations can only be a starting point and that in the end it essentially comes down to common sense and the planning expertise of architects and technical planners, is taken for granted.

Floor plan optimisation – effective use of space by means of sliding doors

For historical reasons, existing bathrooms are usually tight in terms of space or offer unfavourable conditions with regard to their geometrical design. The advantage of sliding doors is not only the neutral opening direction – one is saved considerations over space with regard to the use of a wheelchair or zimmer frame – but also that no space has to be sacrificed in the bathroom by the area covered by the door, and in addition the risk of a door being blocked by a person lying on the floor is considerably reduced. Added to

this is the fact that space efficiency is unlimited by the overlapping of areas of movement permitted according to DIN 18 040-2 – 1.2 × 1.2 m or 1.5 × 1.5 m respectively in front of the individual sanitary facilities, which also includes a washing machine in the bathroom. We supply bathroom roses with emergency opening function and generously sized WC bolt, which is easy to handle even taking geriatric limitations into account.

Floor plan optimisation – Use of corner situations

Corner situations can be flexibly developed using the different handrail configurations and angled rails from the ErgoSystem® and be specifically coordinated to the space situation and individual movement sequences. The possibilities here are almost unlimited in principle. Not only individually matched lengths can be of relevance here, but also individual support distances, which are based on the joint arrangement or existing fastening points. Accessories and complementary components, which can be combined with handrail configurations, angled rails and drop-down support rails, further increase the flexibility and space efficiency. The same applies to drop-down support rails that can be installed laterally and fastened to concealed installations developed according to structural load principles.

Fall prevention

These individual coordinated handle and handrail configurations are also suitable for fall prevention purposes in a special way – this may concern the mounting position as well as the length structure – because all areas of the room can be optimally made accessible to the individual habits of the residents.

Gripping | Supporting | Holding

Barrier-free design is distinguished by its ability to adapt to changing needs. This applies in particular to support rails and handles in the WC and shower area. For this reason, DIN 18 040 calls for the following in barrier-free homes: “The walls of sanitary areas shall be developed so that they can be retrofitted if necessary with vertical and horizontal support rails and/or handles (...)”.

All well and good, as far as new builds are concerned. Yet what happens in case of conversion work to existing buildings if the load bearing capacity of the brickwork is unclear? FSB provides solutions for this scenario, which take unclear structural conditions into account: the suspended seat 82 8250 00001 is available with an integrated floor support. This can of course be set exactly to the measurement between handrail and top edge of the tile or shower tray. The floor support 82 8228 can be fitted subsequently to drop-down support rails from the ErgoSystem. Discreet rubber feet protect the surfaces.

Barrier-free living in the shower

As regards seated use, the over-the-corner arrangement in the shower area has proved to be favourable. The advantage of fixed folding shower seats is that they can be installed independently from the holding system in line with individual needs, whilst suspended folding seats can be positioned more flexibly – both types ultimately produce a wider space to move around. Over and above this, the FSB range offers folding seats in the A-Flex series, which can be installed or pushed in place as required. For shower head holders, an effortless one-handed operation is essential, but it must be ensured that one hand always remains free with which to hold tight. In the case of restricted fine motor



skills, mechanisms without rotary movements increase convenience further. And last but not least: You can say what you like about shower curtains, but for effortless “operation” and simple integration in the geometry of the shower they are ideal.

Barrier-free living around the bath tub

Even if the bath tub represents a barrier for people with restricted motor skills, its value for their well-being should not be underestimated. Here too, the risk of falling is reduced when a vertical support rail helps a person getting into the bath and a horizontal rail provides safety when sitting down and standing up.

Enhancing brightness contrast

In this respect the ErgoSystem® reveals its full strengths; irrespective of the surrounding colour scheme, the fine matt brushed surface of the oval tube reflects all sources of light, meaning that these elements automatically stand out against the background and can easily be seen even with limited vision. In addition, the dark grey powder-coated installation elements are

deliberately restrained compared to the handles. The optical demarcation is able to be further supported by a corresponding colour concept.

Dementia

Dementia is not a dedicated topic in DIN 18 040, yet isis® access solutions from FSB have successfully taken hold in this context in the meantime. What is advantageous with the isis® hardware is not only the former practice of learning to open the door using the handle after holding up the identification medium to it. An ergonomically excellent solution, which cannot be compared with the rotary opening process using so-called electronic thumb-turn cylinders, which cannot be operated due to fading strength. Added to this is the loss of feeling for day and night-time, which sees residents with dementia repeatedly getting up in the night and looking for people to talk to. With a classic access concept – everyone carries an identification medium that is only authorised for their own room – these kinds of trials and tribulations can be avoided.

A security benefit is gained at the same time, as each door is locked when pulled closed and does not remain unlocked unintentionally.



Barrier-free ErgoSystem®. We have transferred our know-how on the subject of gripping and handles to the design of barrier-free products for the sanitary area. The ErgoSystem® offers optimum help to help yourself, without having to do without first class design.

from page 545

If you have worked for such a long time as we have with tools to extend your hand, you must also produce products which go beyond a support: For example, our barrier-free “ErgoSystem® diagonal-oval” for the sanitary area, which clearly demonstrates that functional and ergonomic products can also be aesthetic. Its multiple award winning design is as pleasant in your hand when you grip it as it is for your eye when you look at it.

The basis of the ErgoSystem is a range of supports in silk finish stainless steel in different variants and lengths. Its basic principle follows the laws of ergonomics when gripping things. Its unique diagonally aligned oval cross section enables an ideal grip quality with less force expended. Functionality, aesthetics and ergonomics in the ErgoSystem® result in a convincing whole. Its use becomes universal in combination with numerous accessories such

as paper roll holders, pushbuttons, armrest pads and shower seats. The ErgoSystem® is the ideal solution for all requirements in care homes and hospitals – and also for everyone who would just like more convenience in the bathroom.

Under the name METRIC® we also offer a range of discretely designed bathroom accessories, distinguished by geometric shapes and high quality material. Their formal design follows the classical principle of proportions. METRIC® takes its place harmoniously in the most varied design concepts – whether in combination with ErgoSystem products or even as an independent line of accessories.



isis® systems for electronic access management stand for gripping ergonomics and convenience, enhanced by the dimension of a digital organisation of buildings. They combine classic FSB expertise with the benefits of electronically organised security.

from page 42

With isis®, FSB offers intuitively operated solutions both for entrance doors on homes (isis® F, see page 87f.) as well as a scalable concept for multi-layered building structures and integrated organisational requirements. isis® F (= Fingerscan) is based on a biometric identification device integrated in the door pull. isis® M100 and isis® M300 (see page 53f.) combine classic FSB expertise with all the convenience and organisational aspects of a flexible access management system: with the isis® family of systems, FSB always provides the right solution for your individual needs – also taking budget factors into consideration.

isis® meets all of the functional, aesthetic and ergonomic requirements placed by industry, commerce, administration, the care sector (hospitals, old people's homes) and also the hotel sector. The system includes designs for solid, frame and glass

doors as well as for external entrances (security class S2). For all types of door, installation is uncomplicated and there is no problem retrofitting to existing doors.

It is obligatory that the system is approved for fire doors and emergency exits, that the range of handles for the various designs of FSB door handles is consistent as is the range of metals used by FSB of aluminium, stainless steel, bronze and brass. Classical mechanical fittings and those with an electronic access function combine to make a formal aesthetic and material unit which is unique in the field of fittings for large buildings. The supply of power which does not depend on the building's electricity supply maximises flexibility way beyond the planning phase.

Order forms and brochures are available under www.fsb.de/isis





Flush fittings. The architectural trend of reducing visible structures is continued in doors and windows, whether in the shape of our flush fittings and roses, window handles with low-profile roses or recessed pulls for sliding doors.

from page 270
CNC milling data under fsb.de/cnc

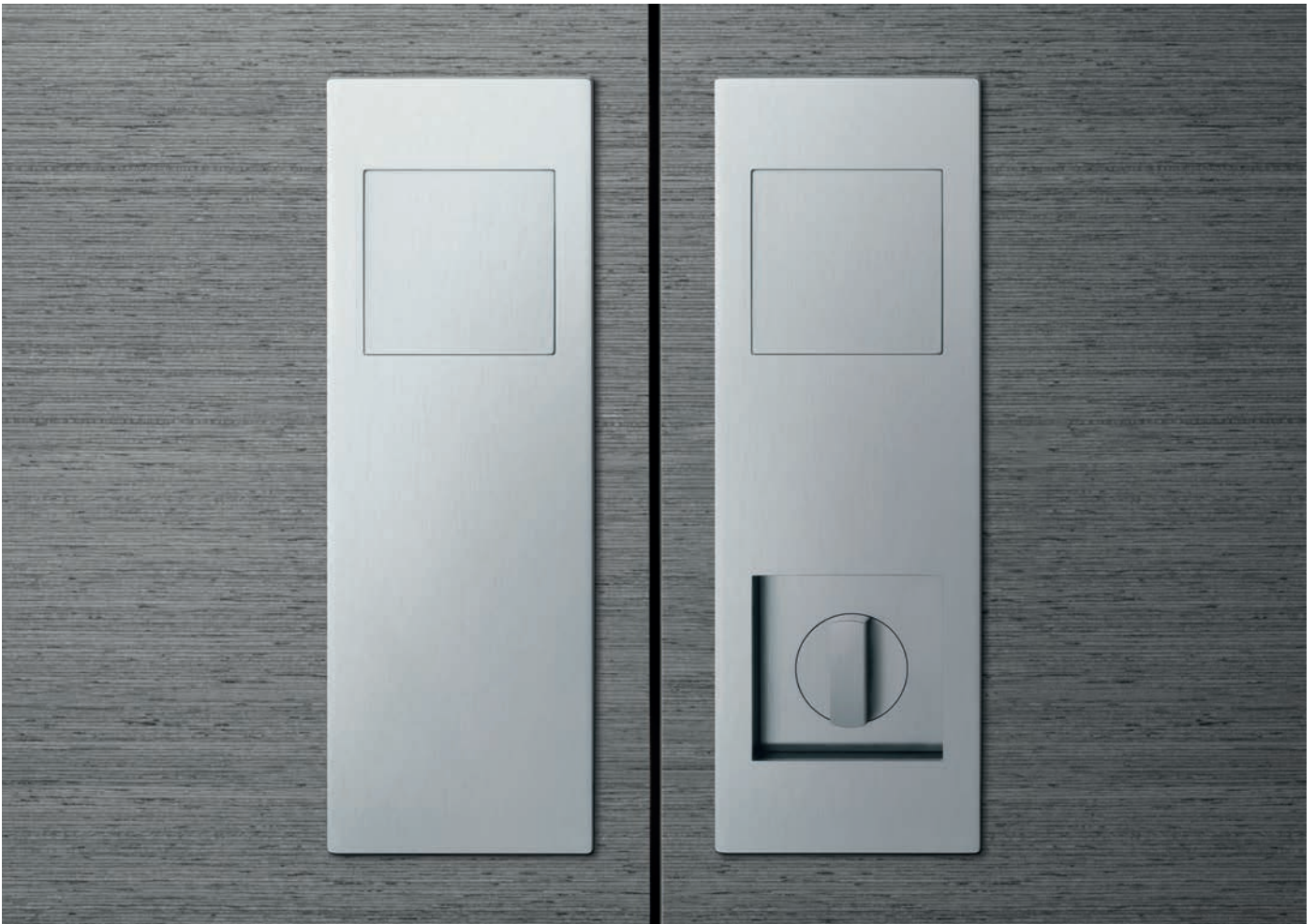
Precision installation is at the centre of the world of flush fittings, where the roses are literally sunk into the surface of the door. Flush fittings and roses are nicely complemented by flush security roses, window handles with low-profile roses and recessed door pulls.

Their very distinctive character shines a very positive light on a craftsman's design skills, especially in projects where great weight is placed on interior design. A craftsman's skills in dealing with the flush fittings can represent a unique selling point to improve their competitive situation. The contemporary appearance of our flush fittings is not just suited for brand new buildings.

They also make a great impression providing a modern accent during renovation projects. Almost all models of FSB door handles are available in flush-mounting

versions and, independently from that, are available in all materials and finishes in FSB's range. FSB's portfolio of flush-mounting fitting solutions includes:

- heavy-duty flush-mounted fittings for doors from a thickness of 45 mm, see page 270
- flush-mounting roses (round, Ø 55 mm) for standard doors with a thickness of between 38 and 44 mm, see page 271
- **new:** flush-mounting roses (rectangular, 55 × 55 mm) for standard doors with a thickness of between 38 and 44 mm, see page 272
- **new:** heavy-duty window handles with a completely flush recessed rose, see page 323
- flush-mounting security roses to DIN 18 257 ES 1, see page 599



Flush recess pulls. Regardless of whether new construction, renovation, conversion or the construction of residential or commercial buildings is involved: with sliding doors, the level of flexibility when planning and the space efficiency of the rooms fitted with sliding doors are increased.

from page 365
CNC milling data under fsb.de/cnc

This applies in particular if areas cannot easily be made bigger for structural or budget reasons or because of the floor plan. In the context of DIN EN 18 040, it should therefore be mentioned that you can make considerations about space easier with regard to the use of a wheelchair or zimmer frame as well as reduce the risk of a door being blocked by person lying on the floor in case of emergency.

New: Recess pulls with counter-fitting for double sliding doors

With a line of stand-alone recess pulls for solid doors in various forms with open or spring-loaded closed handle through to versions with matching lock including bolt for bathroom and WC doors, FSB already took this requirement from the market into account some time ago (see page 366f.). Our 42 4255 series of recess pulls that have been refined in detail – the two-part

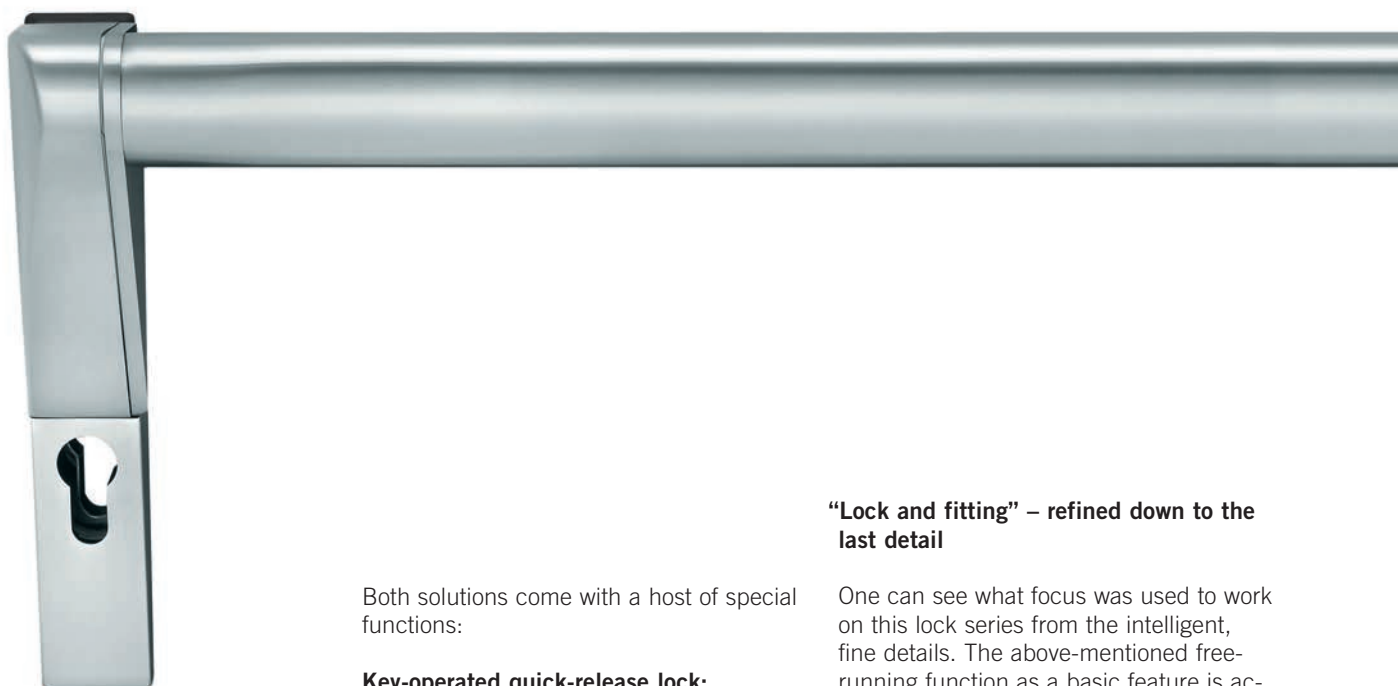
configurations for double sliding doors are new – can be found from page 370.

Recessed pulls for fully glazed sliding doors

Our comprehensive product line has also been extended by adding solutions for fully glazed sliding doors corresponding to the shape of solid door recess pulls. These recess pulls, which are very easily fitted into glass cut-outs of 70 mm diameter by means of a clever screw-in or clamping solution, completely make do without adhesive or similar aids and are easily for craftsmen and door specialists to handle. The pulls are available in versions for glass thicknesses of 8, 10 and 12 mm. You will find these pulls on page 478.

DIN EN 1125: Consistent FSB quality

Lock and fitting from one source



With the publication of this manual, FSB presents a new, coordinated modular system, “Lock + Fitting” for single and double-leaf escape and panic doors (solid). Some time ago, we introduced an extensive range of mortice locks, thus starting to unite what once used to belong together: in the pre-industrial age, locks and fittings formed a single unit.

During the course of industrialisation, both components became independent parts – and what now divided them was regulated by industrial standards. Together with our subsidiary, Sächsische Schlossfabrik SSF, we have brought the strategy of the functional and technical unit of lock and fitting back to life and are presenting the market with a newly developed system for single and double-leaf solid panic doors with and without top locking mechanism on the active leaf.

The technically and functionally coordinated concept of lock and fitting consists of a pull bar according to the future Type C of DIN EN 1125 (model no. 7982, lifting upwards, see page 449f.) and modularly structured locking and bolting components (SSF lock series 61/62, anti-panic functions B, D and E).

Both solutions come with a host of special functions:

Key-operated quick-release lock:

If the key is turned in the lock direction, this releases a locking lever in the lock, which promptly leads to a deadbolt being automatically thrown 20 mm. The benefits, besides the convenience aspect of not having to complete two full locking turns by hand, are clear to see: there is no risk from locking by hand of bringing the locking cam of the cylinder into a position that blocks other lock functions – the so-called free-running function.

Four-point checking query

Furthermore, the anti-panic locks in the 61/62 series enable the bolt, the top locking mechanism and the latch as well as the handle's connection to be queried using electronic switch contacts.

Anti-blockade function:

Hazardous manipulations of anti-panic doors, such as blocking the door handle on the outside – which is common practice in schools – are effectively prevented by the so-called anti-blockade function. The panic function on the inside is therefore guaranteed at all times.

Flexible screw-on faceplates

For the processor, the modular lock series offers the benefit that SSF can soon react to changing dimensions thanks to a screw-on faceplate.

“Lock and fitting” – refined down to the last detail

One can see what focus was used to work on this lock series from the intelligent, fine details. The above-mentioned free-running function as a basic feature is accompanied by a split follower (anti-panic function B, D), which is mechanically coupled, a plastic-coated latch with convenient whisper-quiet feature, plus an independent spring support on both sides of the door handle by means of the lock follower, which guarantees a permanent 0° position of the door handle.

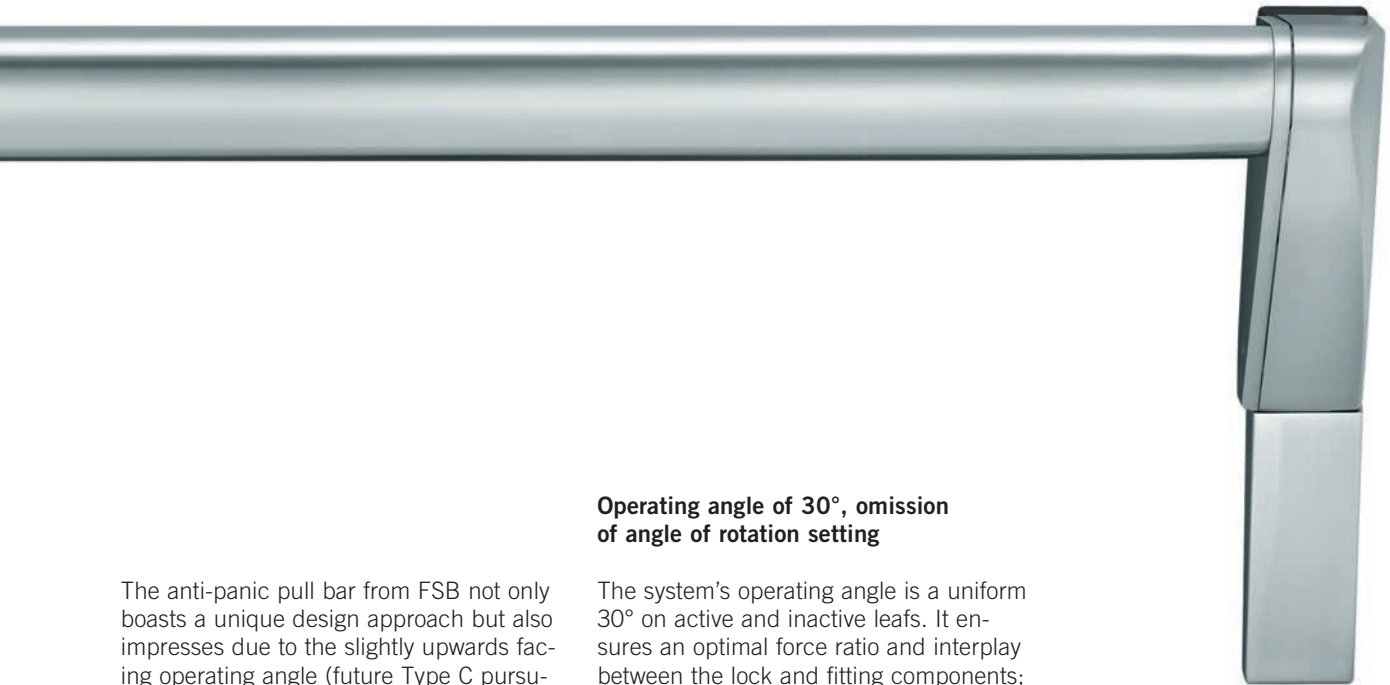
In addition, no attachment is needed for the top locking mechanism, which means it needs no extra milling groove in the mortices. What is more, the faceplate length on locks with or without top locking mechanism is identical.

A summary of the panic-lock functions B, D and E:

B – Change-over function, for locks with semi-automatic locking mechanism (outer side with handle). It is used on doors that must enable a transit from outside sometimes.

D – Transit function, for locks with manual locking mechanism (outer side with handle). It is used on doors that must enable a passageway from outside when unobstructed.

E – Reversible function, for locks with manual locking mechanism (outer side with knob). It is used on doors where unauthorised opening from outside must be prevented as a matter of principle.



Operating angle of 30°, omission of angle of rotation setting

The anti-panic pull bar from FSB not only boasts a unique design approach but also impresses due to the slightly upwards facing operating angle (future Type C pursuant to DIN EN 1125), which gives it a special security feature: this makes it impossible to open panic doors from outside using pulling elements inserted under the door. This also has the advantage that there is no need for solid sealing or protection measures on the bottom of the door, which in turn opens up spaces without thresholds and hence without barriers.

The system's operating angle is a uniform 30° on active and inactive leaves. It ensures an optimal force ratio and interplay between the lock and fitting components; the low angle of rotation enables a quick release. Over and above this, it is not necessary to set the angle of rotation on site, which prevents errors, as incorrect settings are ruled out. The bolt thrower on the strike box can be set on site in each case to the existing gap of 2 to 6 mm between the active and inactive leaf. On top of this, the new anti-panic pull bar

pursuant to DIN EN 1125 can be combined with short backplates and nearly all the handles from our range. All roses, short and long backplates in the DIN EN 179 design can be combined with the 1 or 2-leaf SSF panic lock. In addition, SSF offers various other types of locks which represent the ideal complement to our door fittings. SSF's range includes mortice locks for:

- interior doors,
- tubular frame doors,
- flat entrance doors,
- house doors
- doors for large buildings,
- fire safety and emergency exit doors
- as well as special locks, strike plates and accessories

On the following pages we present the mortice locks in the 55, 20/21 APK, 02 and 19/24 FH series. You will find detailed information in the current SSF catalogue, which you can get from FSB or directly in Saxony.

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Am Pappelhain 10 · D-04539 Groitzsch
Phone +49 34296 733-00
Fax +49 34296 733-11
or on the Internet: www.ssf.de | info@ssf.de



DIN EN 179 for emergency exit locks

DIN EN 1125 for panic door locks

The fact is that the standards mentioned have today achieved the status of recognised technological rules, and the use of relevant fittings is strongly recommended, if they are not already required in the call for proposals. Building regulations require that the doors in escape routes must be easy to open from inside to their full width, with a handle if necessary. DIN EN 179 specifies the use and requirements for locks on emergency exits with handles and push plates. Combinations of fittings as understood by EN 179 must be considered as products subject to building regulations with the necessary EU or CE conformity labels. They consist of lock, fitting and strike plate and must have been tested and certified together. So that you do not have to worry about such formal matters, in this area FSB offers the most extensive range of fittings across the sector.

The following FSB fittings systems are available in fire safety versions with the door handle models listed in the overview with corresponding tests and certificates for the approved ranges of lock and strike plate combinations, in the area covered by EN 179:

- Door handles, fittings for active and inactive doors each available in FSB versions of
 - roses
 - short backplates
 - long backplates
 - wide backplates
- Frame door handles and
- Security fitting doors
- as well as the respective isis® designs

Construction Products Regulation (EU CPR)

The declarations of performance (DOP), by which FSB documents that the relevant products conform to the applicable EU regulations, can be found under www.fsb.de/dop

Pictogram labelling of corresponding versions:



	79 1002 Page 112f.			09 1002 06 1002 Page 408f.
	79 1016 Page 130f.			09 1016 06 1016 Page 410f.
	79 1031 Page 150f.			09 1031 06 1031 Page 410f.
	79 1043 Page 188f.			09 1043 06 1043 Page 412f.
	79 1045 Page 154f.			09 1045 06 1045 Page 412f.
	79 1053 Page 138f.			09 1053 06 1053 Page 414f.
	79 1070 Page 164f.			09 1070 06 1070 Page 414f.
	79 1074 Page 240f.			09 1074 06 0644 Page 414f.
	79 1088 Page 176f.			09 1088 06 1088 Page 416f.
	79 1094 Page 180f.			09 1094 06 1094 Page 418f.
	79 1119 Page 202f.			09 1119 06 1119 Page 420f.
	79 1134 Page 118f.			09 1134 06 1134 Page 420f.
	79 1146 Page 214f.			09 1146 06 1146 Page 422f.
	79 1159 Page 222f.			09 1159 06 1159 Page 424f.
	79 1160 Page 226f.			09 1160 06 1160 Page 424f.
	79 1164 Page 230f.			09 1164 06 1164 Page 426f.
	79 1177 Page 192f.			09 1177 06 1177 Page 426f.
	79 1187 Page 244f.			09 1187 06 1187 Page 244f.
	79 1223 Page 254f.			06 1223 Page 254f.
	79 1231 Page 258f.			06 1231 Page 258f.

**New:
Gymnasium fitting FSB 7948**



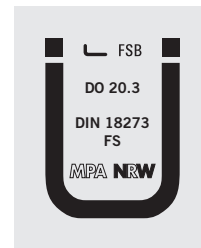
For gymnasium fitting FSB 7948 with suitability according to DIN EN 179 and DGUV, see page 378

Door handles complying with German accident prevention regulations

German accident prevention regulations (GUV-V, May 2001) provide a specification for so-called “areas of occupancy” (those are areas in schools and kindergartens, which are “intended to be accessible to children”) in §11 para. 1 for “fixtures & fittings” such that “edges, corners and hooks of fixtures & fittings in the area of occupancy (...) up to a height of 2 m from the floor level must be designed or protected so that risks of injury to children are avoided.” Injuries are to be avoided using a minimum radius of 2 mm or by the use of a corresponding chamfer on all corners and edges and this also applies for door fittings. As would seem natural, only return models to EN 179 are used, even if they are not explicitly specified. Doors and windows are given special consideration in §10 of the GUV-V law, but the associated fittings are not. Insurance companies and building supervisory authorities do not issue certificates for specific models of door handle. However, our experience in 30 years of work on buildings for schools and kindergartens shows that the following FSB models are approved across Germany.

Door handle fittings for fire safety doors and smoke safety doors

The currently valid standard DIN 18 273 (December 1997) specifies the requirements and the test procedure for the so-called fire safety fittings. These belong to the regulated building products, as listed in the German list A of building regulations, under sequence number 6.17 and which have to be demonstrated to be suitable with a certificate of compliance issued by a recognised certification authority as well as a general building authorities’ test certificate. The suitability marking (Ü in Germany) documents this proof and is provided with every fire safety fitting.



FSB has the largest range on the market for this, with more than 50 models of door handle, in combination with roses, short, long and wide backplates, all certified and constantly monitored by the materials testing office in Dortmund.

	.. 1053 Page 138f.
	79 1117 Page 626
	.. 1045 Page 154f.
	.. 1070 Page 164f.
	.. 1119 Page 202f.
	.. 1146 Page 214f.
	.. 1160 Page 226f.

Mortice lock with anti-panic function + self-locking

20 APK | FH series
21 APK series



For fire safety doors
FH 20 APK series – DIN 18 250
and EN 179

21 APK series – DIN 18 251

For 20/21 series locks an auxiliary latch ensures that the door locks automatically. When an entrance door fitting is used the door can only be opened from outside using the cylinder. On the inside of the door, the door handle simultaneously operates the latch and deadbolt to open the door (the so-called anti-panic function). This version of the lock provides very convenient security for home entrance doors and hotel room doors. It can also be used in connection with the isis systems (see page 37 f.).

Features

- Faceplate made of galvanised steel or painted or stainless steel
- Follower made of steel, latch and deadbolt nickel plated
- Lock case closed all round

Versions

- Euro cylinder in combination with “anti-panic” and self-locking, spacing 72 mm
- Backset 55, 60 and 65 mm
- Faceplate widths 20 and 24 mm
- Faceplate, rounded or rectangular
- Follower 8 or 9 mm square hole

Functions

- Delayed self-locking
- Noise reduction in case of automatic locking
- When the deadbolt closes back up, this is closed back earlier than the latch
- Standard, thumbturn and free-movement cylinders can be used

Classification key according to EN 12 209:

3 S 5 1 0 C 3 B B 2 0



Tested and quality monitored by recognised material testing institutes (FH 20 series)

Mortice lock as a drop-latch lock with spring latch + deadbolt

53 | 54 | 55 series
50 | 51 | 52 series



50 | 53 series – Category 3 according to DIN 18 251-1
51 | 54 series – Category 4 according to DIN 18 251-1
52 | 55 series – Category 5 according to DIN 18 251-1

Features

- Faceplate made of fine matt stainless steel or painted stainless steel, polished brass
- Clamping follower made of steel, galvanised
- Follower bearing made of nylon or steel rings
- Precision cast steel latch, galvanised
- Auxiliary latch made of nylon
- Lock case closed all round
- Protective sleeves to keep swarf out
- Lubrication mechanism
- Angle adjustment (optional)
- Noise-reduction for latch (optional)
- 50 | 51 | 52 series for flush doors, centre design, can be used left/right

Versions

- Euro cylinder, spacing 72 mm
- Backset 55, 60, 65, 70 or 80 mm
- Faceplate widths 20 or 24 mm
- Faceplate, rounded or rectangular
- Follower 8 or 9 mm square hole
- optionally as slam lock with spring latch and changeover

Classification key according to EN 12 209:

3 M 5 1 0 F 3 B C 2 0
3 S 5 1 0 G 6 B C 2 0



Tested and quality monitored by recognised material testing institutes

“The right angle of Ulm”

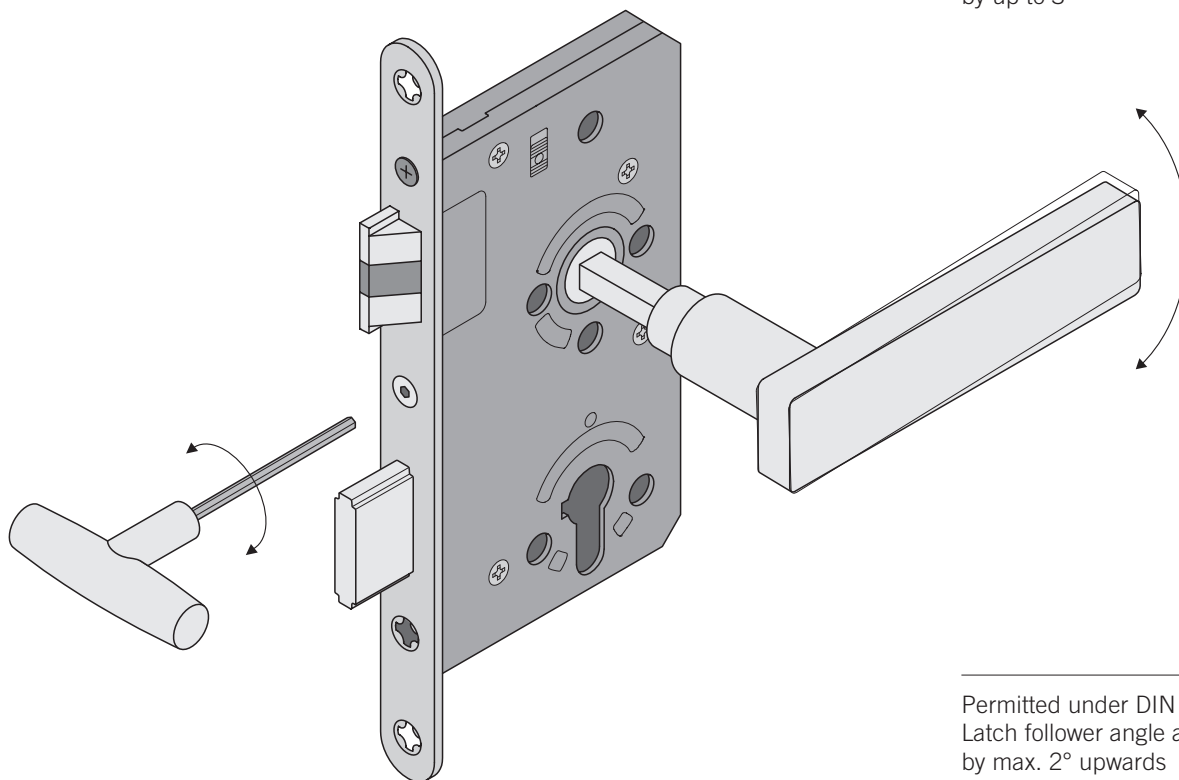
or because it looks better straight: angle adjustment

As an option, SSF locks belonging to the 50–55 series can be supplied with a device for adjusting the angle of the door handle.

In accordance with DIN 18 251-1 specifications, the latch follower can be supplied and fitted with an angle adjustment of max. 2° facing upwards. The consequence of this, however, is that it creates

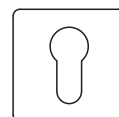
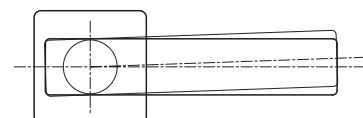
an aesthetic shortcoming when fitted, especially on geometrically straight-lined door handle shapes. Very much to the annoyance of users who value small details and to whom an exact appearance of the door with a horizontally aligned door handle is important. In order to compensate this deficit, SSF has developed a device for the locks in the 50–55 series, with which the angle adjustment of the latch

follower can be corrected accordingly. When the lock is completely installed and the door handle fitted, this device can be adjusted by up to 3° downwards by turning a screw attached on the faceplate side using an Allen key and thereby compensate the angle adjustment permitted by the standard.



SSF series 50–55 locks:
Subsequent aesthetic correction
by up to 3°

Permitted under DIN 18 251-1:
Latch follower angle adjustment
by max. 2° upwards



Mortice lock with follower adjustment

55 NV series



55 series – Category 5 according to DIN 18 251-1

For doors in large buildings with a high user frequency and enhanced break-in protection.

Series 55 locks are specially designed to meet the high requirements for use in large buildings. High quality materials and finest machining ensure quality and long-term functionality.

Features

- Faceplate made of non-rusting stainless steel or painted stainless steel, polished brass
- Clamping follower made of steel
- Latch and deadbolt are nickel-plated
- Noise-reduction for latch and follower
- Lock case closed all round
- Lubrication mechanism
- Protective sleeves to keep swarf out

Versions

- Euro cylinder, spacing 72 mm
- WC 78 mm
- Backset 55, 60, 65, 70, 80 or 100 mm
- Faceplate widths 20 and 24 mm
- Faceplate, rounded or rectangular
- Follower 8, 9 or 10 mm square hole
- Designs in Category 3 and 4 available on request

Classification key according to EN 12 209:

3 S 5 1 0 G 6 B C 2 0



Tested and quality monitored by recognised material testing institutes

19 | 24 FH series



ES 19 series – Category 3 according to DIN 18 251-1
ES 24 series – Category 4 according to DIN 18 251-1

For fire safety doors
FH 19 series – Category 3 according to DIN 18 250
FH 24 series – Category 4 according to DIN 18 250

For the 19/24 series of locks, all working parts are made of steel. The latch and deadbolt are implemented as a combination of shaped steel parts with injection moulded plastic guides and holding parts. This combination results in special kinematic characteristics and good noise reduction within the lock as well as in the interaction of the latch and the strike plate.

Features

- ES 19: steel clamping follower, galvanised with nylon bearing shells
- FH 19: steel folding follower with steel bearing shells, both galvanised
- ES/FH 24: steel clamping follower with steel bearing shells, both galvanised
- Faceplate made of fine matt stainless steel or painted or galvanised stainless steel
- Latch and deadbolt in combination of shaped steel parts and plastic guides
- Latch follower made of galvanised steel with clamping action
- Lock case closed all round
- Special noise reduction in the lock and on the latch and deadbolt

Versions

- Euro cylinder, spacing 72 mm
- Backset 55, 60 and 65 mm
- Faceplate widths 20 and 24 mm
- Faceplate, rounded or rectangular
- Follower 9 mm square hole

Classification key according to EN 12 209:

3 M 5 1 0 G 3 H C 2 0
3 M 5 1 0 G 4 H C 2 0



Tested and quality monitored by recognised material testing institutes

Mortice lock for tubular frame doors

O2 series



O2 series – Category 3 according to
DIN 18 251-2

Deadbolt throw 21 mm

The O2 series includes frame door locks for the most varied of frame door contours and profiles. This series also supports the option of through fixing the fittings.

The through screw fixing is ideal for repair purposes when rivet nuts have been torn out and generally recommended for frequently used doors.

Features

- Faceplate matt chromated steel or stainless steel
- Latch and deadbolt are nickel-plated
- Through holes to fix fittings with protective sleeves
- Clamping follower
- Lock case closed top and bottom
- Latch with noise reduction

Versions

- Euro cylinder, spacing 92 mm
- Backset 22, 25, 30, 35, 40, 45 or 50 mm (DM 20 without changeover)
- Faceplate widths 16, 20, 22 and 24 mm
- Follower 8, 9 or 10 mm square hole
- Latch reversible, can be used right / left hand
- U-faceplate 24 × 6 mm inc. end caps for backset 29, 34, 39, 44 or 49 mm

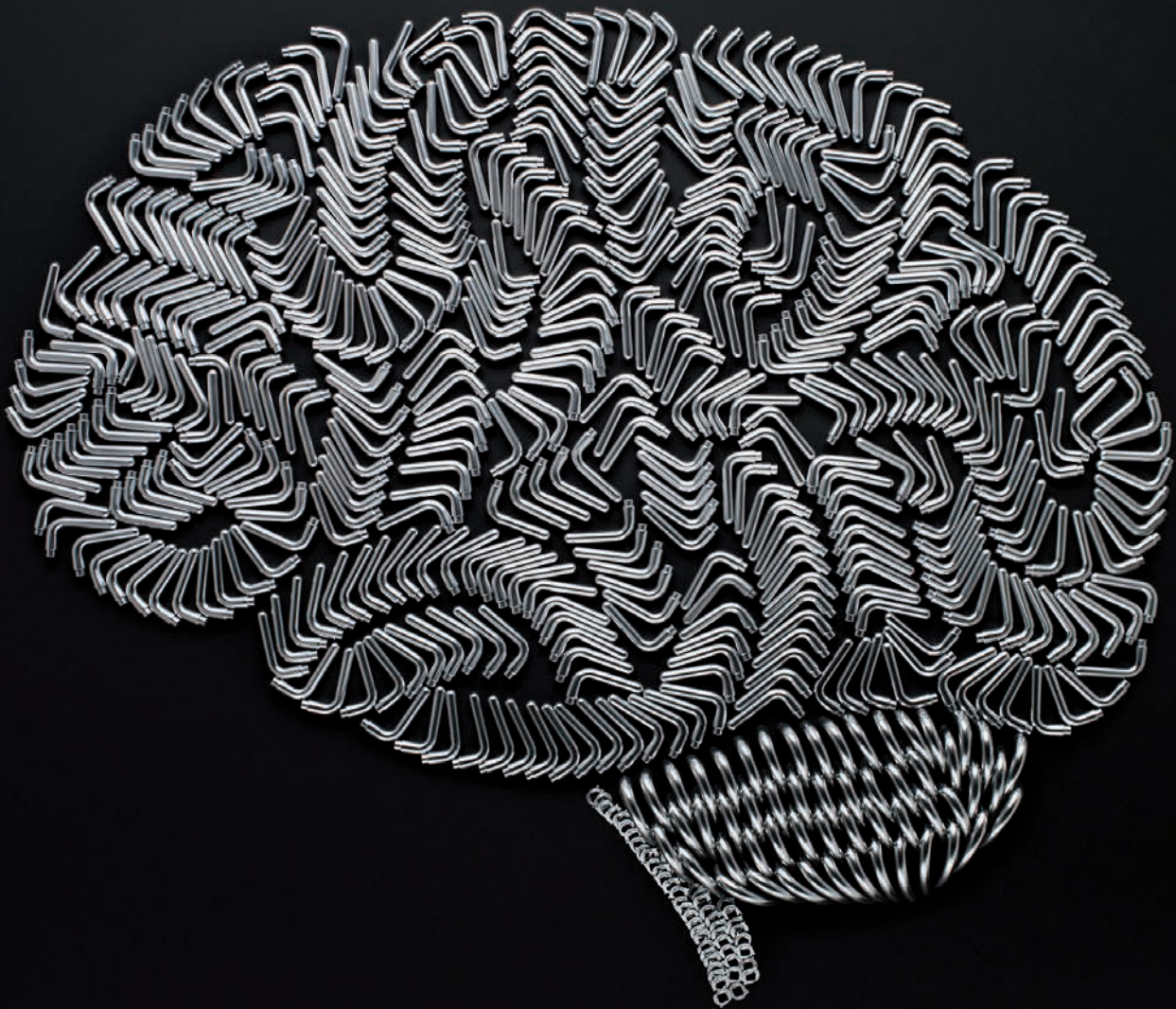
Classification key according to EN 12 209:

3 M 5 0 0 C 3 B A 2 0



Tested and quality monitored by recognised material testing institutes

Inner (added) value. Behind the beautiful facade of our fittings you will find thought-through technology, commonly categorised with the term "bearing". This does not really do justice to it. Read some more about how our precision engineered masterpieces ensure convenience, a long service life and sustainability.



Bearings – an overview

Standard fittings

10 



FSB standard fittings fit exactly in a 7 mm wide guide made of black plastic in roses and backplates. Apart from the 7 mm wide bearing, FSB roses and short backplates also have supporting lugs which, when fitted properly ensure that all of the pull, push and twist forces which occur in normal use are properly supported and accepted. These design details have been proven in practical experience. The handle bearing is designed as a turnably fixed plain bearing. For this, the door handle with its guide ring are inserted into the subconstruction. The turnably fixed mechanism clips on the covering fittings (see page 269).

Heavy-duty fittings AGL®

72 

76 






79 

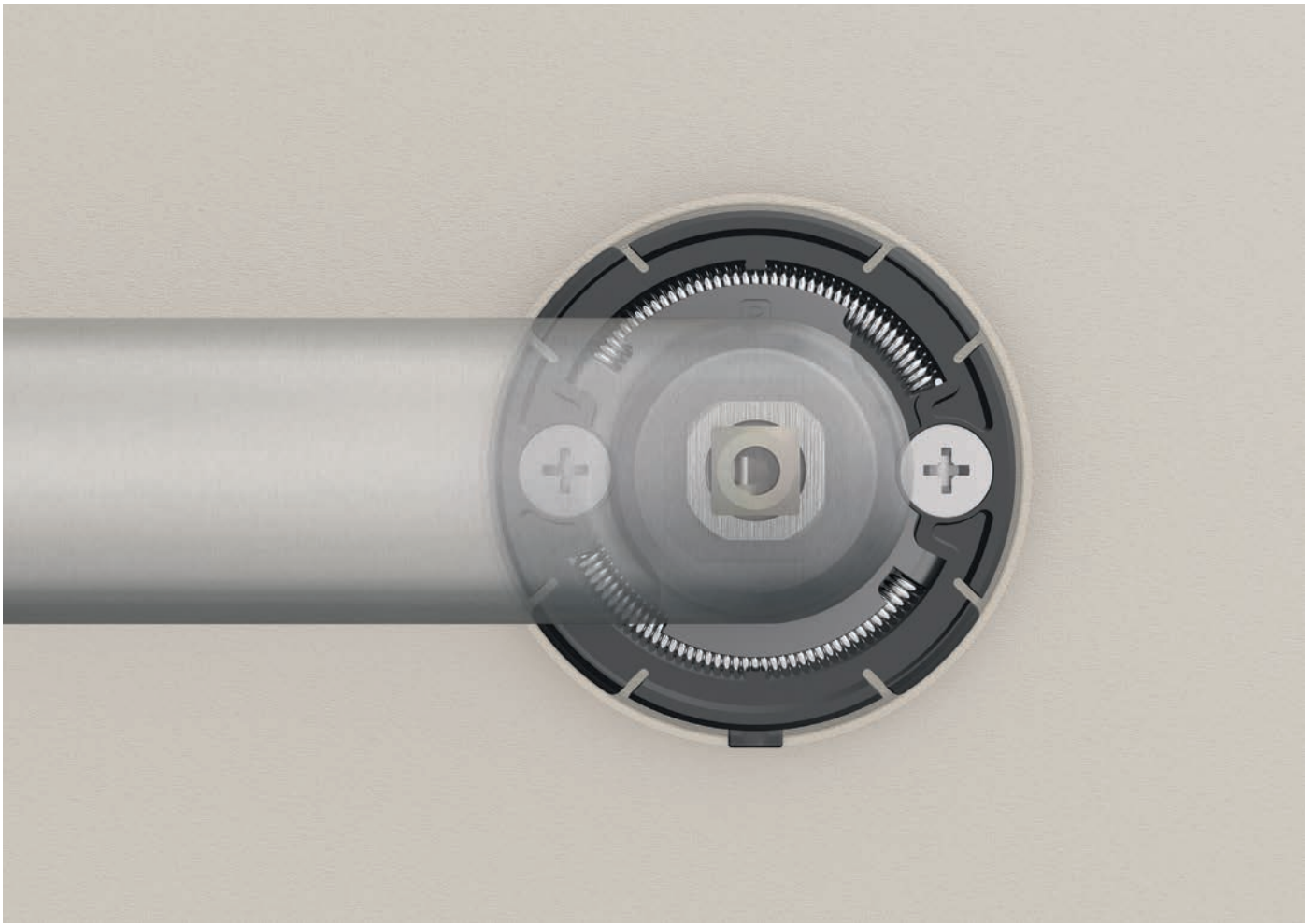


Door handle fittings are more highly stressed on frequently used doors than in the normal domestic area. To accommodate the forces arising as flexibly as possible when opening and closing these doors and above all continuously for a long period of time, an especially high-performance bearing is needed. AGL® from FSB reliably cushions the push and pull forces via a rubber-metal connection. This quality is accompanied by further benefits:

A hold up mechanism with preloaded springs pursuant to EN 1906, version B puts an end to sagging door handles. AGL® fittings also contain a 0° stop point integrated into the hold up mechanism. This puts an end to door handles which are not positioned exactly horizontally. They are often pressed up by the lock spring by approx. 2° from their – in the ideal case, horizontal – position. The AGL® hold up mechanism compensates for any effects of the lock spring. See page 30 for information about fittings standard EN 1906.

Classification key for

- 10  : 3|7|1-10|11|4|0|U
- 72  : 4|7|1-10|11|5|0|B
- 76  : 4|7|1-1B|11|5|0|B
- 79  : 4|7|1-1B|11|5|0|U (aluminium + stainless steel)
- 79  : 4|7|1-1B|11|*|0|U (bronze)



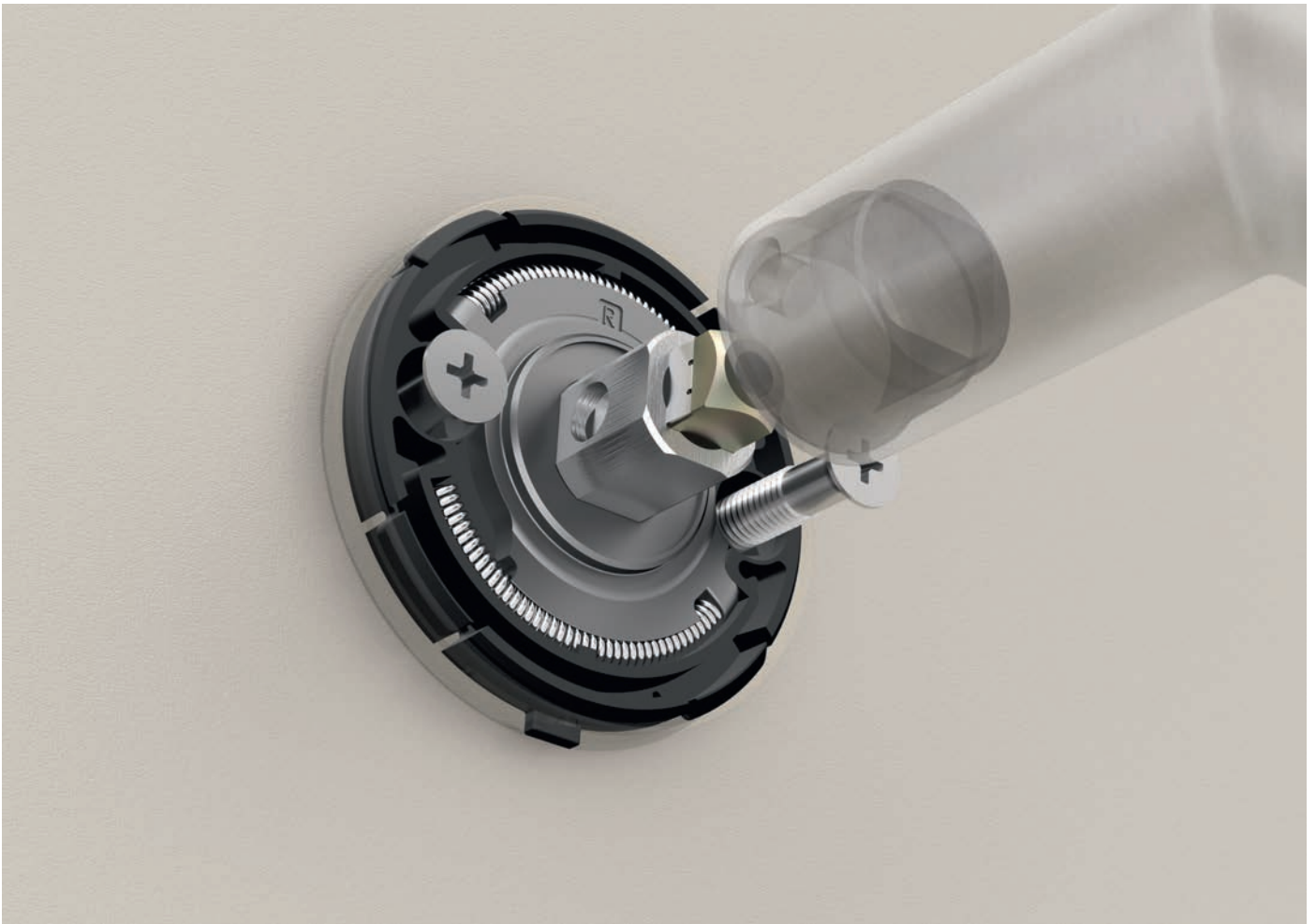
Speed and precision. AGL® from FSB has stood for decades for an unbeatable category of fittings for large buildings. AGL® puts forward product and installation benefits that set new standards on the door.

www.fsb.de/agl

AGL® has not just advanced to being the ultimate among architects, but with its thought through technology and durable function, it has continued to convince craftsmen, home builders, operators and investors for more than 30 years.

FSB has rethought this classic and has revised it, without losing its technical core and without changing its proven functionality.

- turnably fixed compensating bearing AGL® with low friction and maintenance-free Teflon-coated bearing bushings
- compensating bearing to compensate for tolerances in the holes drilled in doors and in the lock/cutout for the lock body and the solid spindle
- interlocking connection between the spindle and the aperture for the optimal transfer of the forces arising in the door
- pre-fitted as a spindle and aperture adapter half set
- superior user category 4/EN 1906 with more than 1 million tested operations



AGL® – effortless screw fixing thanks to adapter half set. The advantage: the two AGL® half sets can be effortlessly screwed together, because it is no longer necessary to “screw past” the door handle or the door handle shank.



Simple and installer-friendly assembly

AGL® fittings are distinguished by a special design feature, which makes installing them considerably easier: the door handle aperture has been uncoupled from the part of the door handle attachment where the FSB Stabil spindle is set in place. The result is an aperture adapter half set, on which the door handle is only set in place once the adapter side has been screwed together with the spindle side.



Effortless screw fixing thanks to adapter half set

The glaring advantage: the two halves of the fitting can be effortlessly screwed together because it is no longer necessary to “screw past” the door handle or door handle shank. Cordless screwdrivers can

therefore be positioned axially and thus exactly according to the screwing direction. After this the door handle is pushed onto the adapter and fixed together with the adapter half set using a grub screw. The design principle of the FSB Stabil spindle, which has proven itself over decades, remained untouched in the process. All AGL® fitting types will be made according to this design principle in future.



Hold up mechanism B

A hold up mechanism with preloaded springs pursuant to EN 1906, version B puts an end to sagging door handles.



Aesthetic added value due to precise 0° position

AGL® fittings also contain a 0° stop point integrated into the hold up mechanism. This puts an end to door handles which are not positioned exactly horizontally. They are often pressed up by the lock spring by approx. 2° from their – in the ideal case, horizontal – position. The AGL® hold up mechanism compensates for any effects of the lock spring right from the start.

The features of hold up mechanism B and 0° position also apply to all AGL® types of fitting.

FSB on standards

4	7	–	B*	1	4	0	B
	Durability Classes 6/7	Door mass and closing force	Suitability for use on fire/smoke doors as per EN 1906 Appendix C Safety	Safety in use Classes 0/1	Corrosion resistance and temperature Class 4	Security and drill resistance Classes 0–4	Field of door application A/B/U
Category of use Classes 1–4							

Our ambition: Better than the standard

Their practical value and the categorisation of fittings must be judged using the entire classification scheme. For an FSB fitting for large buildings (8 and 9 mm square) the categorisation is shown above. Only the total of all test criteria and test results lead to DIN EN 1906. All FSB products not only meet its minimum requirements, but can demonstrate clearly better results.

* for fire safety doors to
DIN EN 1634-1/EN 1906

International standards can only be agreed if the institutions are able to make compromises while taking account of national interests. This means that the agreement phase often takes several years. This in turn means that there is a constant risk that technical progress will not be sufficiently taken into account. Due to the compromises made and the time lost, this leads to the requirements on products manufactured in conformance to standards often only being “mediocre”. Many suppliers also meet the requirements but do not use the better options.

We at FSB do not want to be satisfied with mediocre. Sufficient is not enough for us. We believe that quality is no accident but is always the result of some strenuous thinking, the sum total of a lot of experience and keeping your eye on every detail. And in concrete terms, as a manufacturer of branded products FSB merely sees the standards as minimum requirements.

We do everything that we can, using the most modern technology, to produce better results. There are unfortunately no standards for design, craftsmanship or surface quality. FSB regrets that. Because tables showing comparisons to competitors would presumably also be in our favour here, as we ensure that many complex individual steps guarantee the consistency of the typical FSB finishes for all products. However, comparisons are possible even without tables, using hand and eye. This may be subjective, but is no less honest.

The ideal materials for door and window handles for FSB are aluminium, stainless steel, brass and bronze. They meet the highest requirements of functionality, cost-effectiveness, practical value and environmental compatibility. Stainless steel proves to be almost indestructible especially for frequently used doors and windows. The same is true for bronze as, with its natural patina, it develops an additional aesthetic appeal. Aluminium scores with its pleasant feel, its decorative surface and its low weight.

“Made in Germany” is symbol of value which we can be proud of: FSB’s door and window fittings are manufactured in Brakel and are German made products.

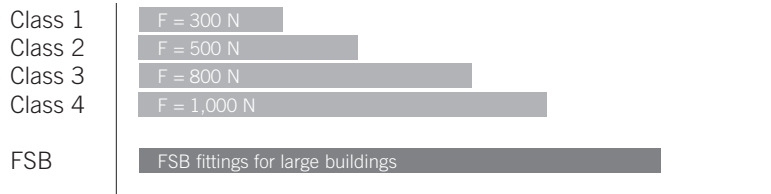
On request, we are happy to issue certificates of origin and long term supplier declarations for goods with preferential origin status according to EU regulation no. 1207/ 2001. In your own interest, if there is any doubt, please check whether it is just a “German” brand or whether it is a German product. We would be happy to convince you of the latter during a visit to our factory in Brakel. Certification to ISO 9001 as a desirable requirement for participation in calls for proposals is a matter of course for FSB just like the validation after an EU eco-audit and certification to ISO 14 001. Since 2010 on this subject, we also have EPD environmental product declarations to ISO 14 025 for our range of over 25,000 deliverable items.

A highly developed society’s image of itself should include just as highly developed products. This also has a lot to do with sustainability. Doors, windows or even rooms designed to be free from barriers accompany us over many decades. For these products, this is reason enough to not just pay attention to materials, design and technology but also to longevity. Handles or fittings which merely correspond to the standard are not necessarily of equal value to our products.

In the adjacent illustrations we show with a few selected diagrams how FSB fittings clearly exceed the requirements of DIN EN 1906.

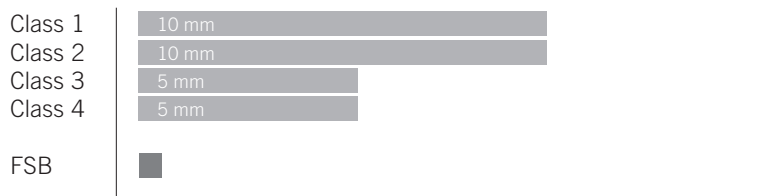
To see why you can trust products from FSB, please see our extensive brochure titled “FSB on standards: DIN EN – Quality to get to grips with” – for quality is measurable. On request, we would be happy to send you this free of charge: www.fsb.de/brochures

Tensile load for installed fittings



Owing to their compact design and the robustness of the connecting parts, FSB fittings for large buildings can withstand high tensile loads.

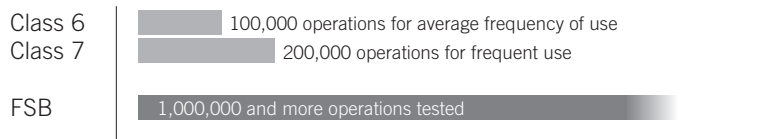
Free angular movement



With zero play clamping, the FSB solid spindle prevents door handles from “wobbling”.

Durability

In a test jig, the forces and relative movements arising in use are modelled and simulated in an endurance test.



Even after the endurance test, the FSB fittings meet the requirements of the user category classes.

FSB 0105

Aluminium, natural colour



FSB 0205

Aluminium, new silver colouring



Aluminium is the most commonly occurring metal in the Earth's crust. In comparison to other metals, aluminium has not been known for long – it was first produced with a chemical reaction in 1808.

Right from the start, aluminium has been used as a high-tech material, when light weight and high durability are required. Space travel as well as aircraft and car-making are inconceivable without it and it was responsible for making some innovations possible in the first place. Especially in the second half of the 20th century, aluminium started its triumphal advance into interior design and into design in general. Its technological mystique together with its silvery, glittering surface opened up new horizons in the use of metal in interior design. At FSB this started with the designs by Johannes Potentes in the 1950s. Still today, the expertise which we gained at the time in the machining of aluminium is the basis of all of FSB's families of handles made of this wonderful material.

Aluminium is a light metal (density 2.699 g/cm³). It melts at 660 degrees Celsius. Admittedly, its initial extraction requires a relatively large amount of energy. This energy balance is however compensated by its many positive characteristics in use and when recycled. The energy savings associated with recycling are about 95 % compared to its initial extraction. And aluminium can be recycled again and again, without any loss.

It is very pleasant to handle, above all as this lightweight amongst the metals is very good at matching the ambient temperature. FSB only uses pure alloys from the smelters to DIN 1725 with the following material numbers:

AlMg3: material no. 3.3541.02

AlMg1: material no. 3.3315

AlMgSi0,5: material no. 3.3206

After the mechanical machining, its surface is protected by anodising.

FSB 0305

Aluminium, brass colouring

**FSB 0405**

Aluminium, bronze colouring

**FSB 0704**

Aluminium, dark bronze colouring



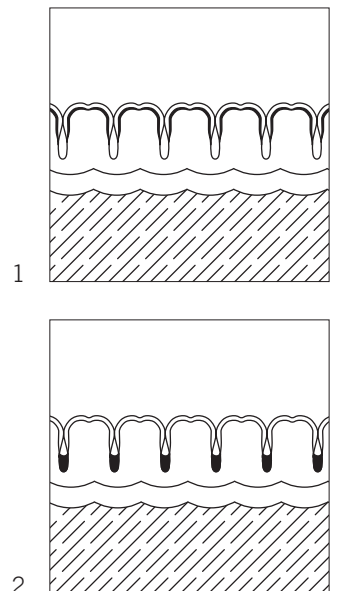
FSB uses a standard process for anodising. This process uses direct current and a sulphuric acid electrolyte. The oxide layer built up in this standard process is approx. 10 µm thick. The hardness of this layer is up to 350 kp/mm² (Vickers), corresponding to 2,500 to 3,500 N/mm². The silver-white oxide layer can be coloured to extend your design options. FSB uses two types of colouration:

1. Colouring the surface and in the central region of the oxide layer by immersion colouring which is also known as the absorption process. During this, the initially silver-white anodised aluminium is chemically coloured in organic and anorganic dye solutions. The light fastness has a value of about 6 to 7.
2. Colouring at the base of the pores of the oxide layer. Here, metals are electrolytically deposited using alternating current into the previously created silver-white oxide layer. This is called a two-stage process. The light fastness values are from 7 to 8.

After colouring, the surface becomes more dense. This ensures that the colour's resistance to corrosion, light and weather stays within the specified values. Basically, aluminium needs no special care as a material. This artificially created anodised layer protects the aluminium. Dirt spots can be removed with water and a soft cloth.

In daily use aluminium surfaces can be worn or scratched by harder materials. Damage is typically caused by rings worn on fingers. This "damage" to the aluminium surface may impair the aesthetic impression but has no effect on its function. Many users even like this patina resulting from use.

Please note that the fitting solutions in the handle families 1001, 1003, 1004, 1035, 1102, 1163, 1183, 1191 and 1222 as well as the associated knobs (0811, 0812, 0833, 0873) are only available in FSB 0105 aluminium.



FSB 0505

Aluminium, medium bronze anodised (C 33)

FSB 0805

Aluminium, black anodised (C 35)

FSB 8220

White, similar to RAL 9016, glossy

FSB 9020

Pure white, similar to RAL 9010, glossy



Aluminium's natural colour is natural silver (FSB 0105). We recommend this colour for all customers who appreciate use appropriate to the material.

After a predominance of light colours in architecture, for some time a reversal of this trend has been noticeable. Colour concepts like this encompass all trades: starting from the facade, via the interior in general right through to the interior doors. This struck us at FSB not just because of the increased demand for patinated bronze finishes, but also quite pragmatically when we inspect large buildings, where we have encountered a lot more dark wood than in previous years. In the best architectural tradition, FSB is taking account of this. In this manual we are presenting two new colours which pursue this design concept and, over and above that match two common colours of facade profiles: C 33 medium bronze and C 35 black.

We would also like to point out that for the finish of the anodised colours FSB always polishes all aluminium parts to a mirror finish prior to anodising. This leads to the silk finish which is characteristic for FSB's aluminium fittings. For the manufacturers of profiles however, it is usual to at most grind the profiles prior to anodising them, only resulting in a matt finish after the anodising. It is thus unavoidable that there will be slight differences in the colours and level of gloss/mattness.

As far as the printing process allows, the standard colours mentioned for the FSB 1023 model of door handle are shown approximately correctly. We do recommend requesting colour samples from FSB for more exact colour matching. Slight colour variations due to the manufacturing process are unavoidable, especially between different delivered batches.

Coloured door and window fittings have found some recognition in the marketplace in recent decades. Often, they were the sole architectural design element in the grey concrete landscape. Today they have a firmly established place in the fittings industry's product range.

FSB sees itself primarily as a manufacturer of door and window fittings made of fine metals. FSB offers a limited range of painted fittings. When making your enquiry, please specify the RAL number of the required colour. Account must always be taken of the fact that slight variations in colour can arise in manufacture, due to the materials and the process involved.

As its basic material for painted fittings, FSB uses the cast and ground aluminium models from its standard range. Before painting, the parts are subject to a special, anodic oxidation. FSB then uses electrostatic powder coating. This is a solvent-free painting process.

FSB 8802

Anthracite grey, similar to RAL 7016, glossy

**FSB 8821**

Grey-brown, similar to RAL 8019, glossy

**FSB 8120**

Black, similar to RAL 9005, matt



The paint is applied in layers of approx. 80 µm. The quality of the finish, the light fastness of the colours, the hardness of the surface, resistance to abrasion etc. approximately correspond to that of anodised aluminium layers.

Occasionally FSB is asked whether we can supply door pulls made of round material in designs made of painted stainless steel or steel. In contrast to using aluminium as the base material, especially when using steel, there is a risk of corrosion if the surface is damaged. We ask for your understanding, that for such special versions, we cannot accept any liability and must exclude any guarantee for the product.

If properly fitted and used properly, the paint on FSB fittings will withstand daily use. Vigorous contact with hard and sharp-edged objects (e.g. rings, keys, boxes etc.) can scratch the surface. Scratches do not however impair function.

FSB sees itself primarily as a manufacturer of door and window fittings made of fine metals, which also applies for the ErgoSystem®.

FSB offers you the option, for all parts within the ErgoSystem which are made of aluminium and as standard are painted dark grey, to paint them on request with almost all colours to RAL. ErgoSystem® fittings for large buildings can be colour-matched to individual designs or their colours can set an accent. Please specify the required RAL number with every inquiry.



FSB 6204

Stainless steel fine matt

FSB 6205

Stainless steel, mirror finish



In 1912, Krupp in Essen, received the first patents for a new material which became familiar in pre-war Germany under the names “Nirosta” (never rust) and “V2a-steel”. A variety of applications quickly opened up for this new material: from the construction of containers in the chemical industry through to designs in car and aircraft construction, from building materials to household equipment.

The general term of stainless steel includes more than 100 different steels which resist corrosion and acids. When making our fittings we use a chrome-nickel steel which, according to DIN 17 440 takes the material number 1.4301. It contains approx. 18 % chrome and 8 % nickel. This alloy has proven itself in the building trade.

Characteristics of stainless steel

Stainless steel is outstanding in its suitability for door and window fittings as its surface is extremely resistant to corrosion. Even when very roughly treated it scarcely shows traces of dents or scratches, it shows little wear even in continuous use and, above all due to the additional alloys

of chrome and nickel, it requires very little care. An invisible passive layer forms on its surface which is even supposed to have bactericidal properties.

Places it is used

We recommend stainless steel door and window fittings for all heavily used doors, especially in public buildings, for public authorities, hospitals, on ships in motorway service areas, in parks and sports facilities, just about anywhere where there are lots of people and a fitting is to continue to work long term while being easy-care.

Care

In principle, architectural fittings made of stainless steel need no care. Traces of dirt can be removed with a moist cloth. If, after some time, exterior fittings or fittings in chlorinated swimming pools show traces of surface rust, this will not be from the material itself but will have been transported from outside to the fitting. This can be removed with vigorous rubbing.

Notes on selection

When selecting and ordering door and window fittings and their accessories, to avoid queries, misunderstandings and the associated waste of time, all of the general explanations and technical information in this catalogue should be considered.

Finishes

Stock versions made of matt stainless steel are particularly robust. Mirror finish stainless steel is an environmentally friendly alternative to chrome-plated surfaces and is made to order.

FSB 6204

Stainless steel, fine matt

FSB 6205

Stainless steel, mirror finish



Stainless steel and ErgoSystem®

Stainless steel is a material which is outstandingly well suited for use in bathrooms and sanitary areas, as its surface is extremely resistant to corrosion. Even when very roughly treated it scarcely shows traces of dents or scratches, it shows little wear even in continuous use and, above all due to the additional alloys of chrome and nickel, it requires very little care. An invisible passive layer forms on its surface which is even supposed to have bactericidal properties.

FSB offers the ErgoSystem® with finishes of stainless steel fine matt (FSB 6204) and stainless steel mirror finish (FSB 6205). Stock versions made of stainless steel fine matt are particularly robust. The version with a stainless steel mirror finish is an environmentally friendly alternative to chrome-plated surfaces and is made to order.

We recommend the ErgoSystem® made of stainless steel for heavily used areas, especially in public buildings, hospitals, old people's and care homes, public authorities, on ships, in motorway service areas, parks and sporting facilities, just about

anywhere where there are lots of people and a fitting is to continue to work long term while being easy-care.

Easy care

In principle, architectural fittings made of stainless steel need no care. Traces of dirt can be removed with a moist cloth. If, after some time, exterior fittings or fittings in chlorinated swimming pools show traces of surface rust, this will not be from the material itself but will have been transported from outside to the fitting. This can be removed with vigorous rubbing. When cleaning powder-coated aluminium parts in the ErgoSystem® (supports, fixings etc.) no abrasive cleaning agents may be used. They inevitably lead to fine scratches and thus to a matt, dull surface.

FSB 4205

Brass polished varnished

FSB 4305

Brass polished waxed



For four decades, FSB has offered selected door and window fittings and their accessories in brass. Apart from door and window fittings, our product range includes handles for entrance doors including accessories.

Brass fittings are offered in a variety of alloys and for a variety of prices in the market. However, not everything that shines like gold is made of real brass. But from us, it is. We exclusively use copper-zinc alloys defined in DIN 17 660 as CuZn 37, material numbers 2.0321 or 2.0335.

Protection from corrosion

It is often not mentioned that brass material tends to corrode in daily use. There is only one answer to that: and that is cleaning. If you have ever been on holiday in the Nordic countries, you will know how carefully the brass fittings are cleaned every week on house doors. Anyone who does not want to clean has the choice between the use of varnished or waxed surfaces. Waxed brass parts are polished during daily use. The parts which are not touched quickly develop a brown to grey-green

patina. Many buyers see a particular aesthetic charm in this maturing of the surface. Varnished brass fittings lose their gloss finish as soon as the varnish is damaged. Then intercrystalline corrosion will start. For a fee, corroded fittings can be restored.

Recommendation

FSB basically only recommends the use of waxed brass surfaces. Polished waxed surfaces can be cleaned with standard, commercially available cleaners. We also recommend that brass surfaces are not used, in particular in outdoor areas, where the effects of sunshine and weather inevitably lead to manifestations of corrosion and above all, not to plan brass fittings in public buildings for frequently used doors. Unless of course, you accept the constant cleaning required or accept the natural patina.

FSB 7615

Bronze lightly patinated waxed



FSB 7625

Bronze dark patinated, waxed



Fittings made of bronze develop a certain radiance as years go by. The patina of use results in a particular aesthetic charm. Bronze parts darken in the air and due to environmental influences.

Patina should not be understood as damaging the material. It is rather a sign of credible aging and profiting from change. Bronze is a material which is not used up, it is just used. For our fittings, we use a copper-tin alloy with 92 % copper and 8 % tin, which is called CuSn 8, or material no. 2.1030. This composition is characterised by outstanding resistance to corrosion, high strength and it is very hard. Its resistance to wear makes it suitable for heavily stressed products which are used every day.

The bronze fittings in the 7615 finish are first polished and then pretreated using a process especially developed by FSB. Immersion in a bath for metals containing copper imitates the material's natural aging process. With this pre-aging, we create a typical bronze patina, which is just as good as that produced naturally. The final waxing in the factory protects it from

external influences which would lead to discolouration of untreated surfaces.

Protection from corrosion

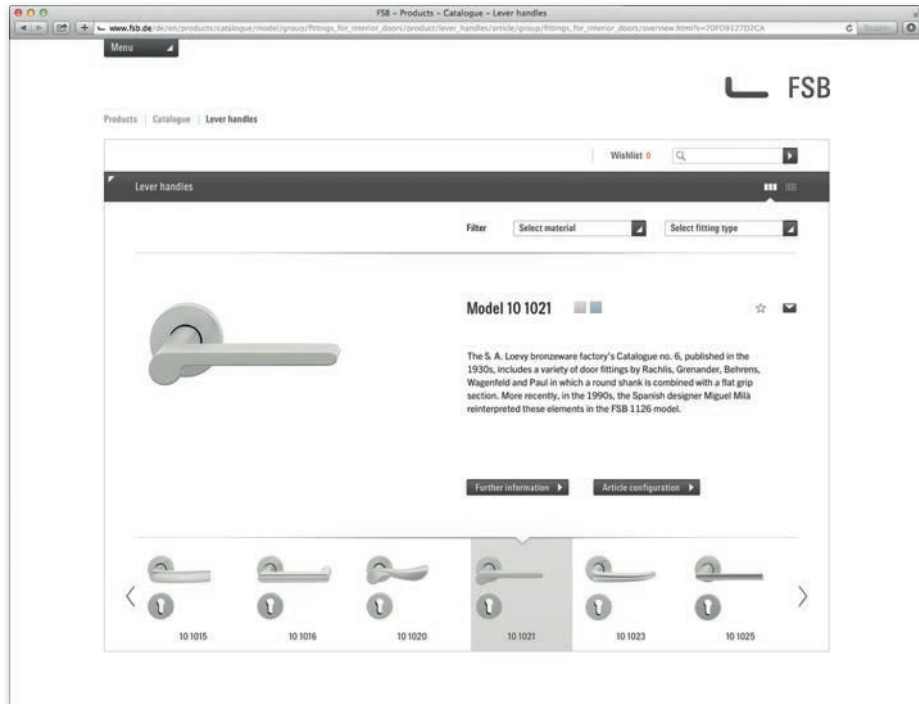
If you require the patina appearance to the bronze from the initial receipt of the product, we can varnish our bronze door handles. As this treatment falsifies the material's typical character, we would like to advise against it. Varnished bronze fittings also lose their gloss finish as soon as the varnish is damaged and the intercrystalline corrosion starts – please see the corresponding notes about brass.

Surface hygiene

Owing to the increasing occurrence of antibiotic-resistant germs, FSB's bronze takes on a new significance owing to its bactericide effect. Critical studies in the USA and in Great Britain show that bacteria on copper alloy surfaces are 99.9 % killed off after two hours at the latest. This group of bacteria includes the Methicillin-resistant *Staphylococcus aureus* (MRSA), one of the most virulent and dangerous germs known. When the prescribed hygienic measures are carried out at the same time, it was confirmed that contamination was prevented by more than 99 %. Owing to this fact this characteristic of the copper alloy used by FSB, called CuSn 8 (UNS designation C52100) has been officially taken up by the EPA (Environmental Protection Agency) into US building regulations, US registration number 82012-2. FSB bronze fittings also carry the European copper quality seal "Cu⁺ Antimicrobial Copper" (for more information, see www.antimicrobialcopper.com)

The full range on the network:

www.fsb.de/catalogue



www.fsb.de keeps you up-to-date at all times. Not only does our website offer you a convenient search function for finding the FSB field sales colleague responsible for your region. Registered users of our information portal "My FSB" also enjoy a number of other benefits free of charge:

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- Give advice, acquire customers and plan with the digital catalogue: our product configurator offers an unrivalled depth of product range.
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You only receive the information that really interests you.

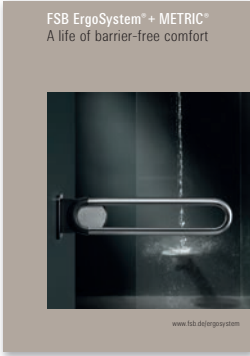
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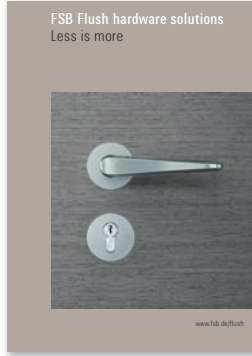
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A life of barrier-free comfort



FSB Flush hardware solutions
Less is more



FSB Recessed pulls
Purist points of focus



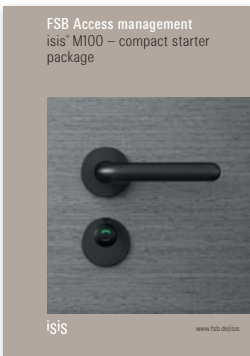
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Perfection in Detail



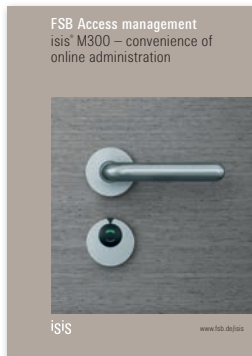
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DIN EN – Quality to get to grips with



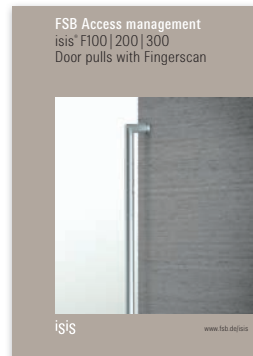
FSB Access management
isis® M100 – compact starter package



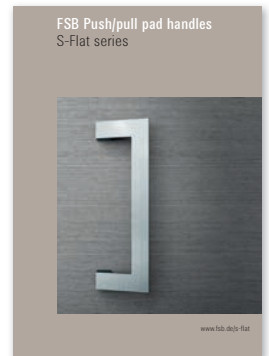
FSB Access management
isis® M300 – convenience of online administration



FSB Access management
isis® T300 – for complex public project requirements



FSB Access management
isis® F100|200|300 Door pulls with Fingerscan



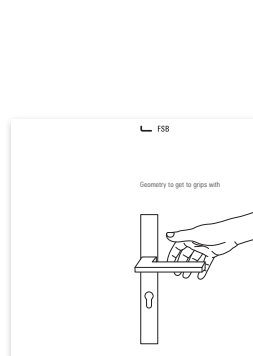
FSB Push/pull pad handles
S-Flat series



Product family
David Chipperfield



Brakel International



Geometry to get to grips with



isis[®] Electronic access management



Culture House ROZET, Arnhem

Neutelings Riedijk Architects, Rotterdam
www.neutelings-riedijk.com

FSB 1023 range of handles,
see page 138 ff.

AGL®-/AGL® FS heavy duty fittings for
fire and smoke doors,
see page 26 ff.
Frame door fittings FSB 06/09 1023,
see page 397 ff.
Fittings for emergency exits FSB 77 7980,
see page 453

Access management with isis® M300,
model FSB 26 1023,
see page 45 ff.
isis® M Access Management Software
isis® M Offline Synchronisation Software
isis® M Access Points
isis® M Card Reader

Stainless steel, fine matt, brushed

www.fsb.de/rozet_arnhem

isis® systems – like cluster of cells – follow logical, efficient and simple principles. In other words: isis® stands for system intelligence. isis® combines digital authentication with mechatronic function. The technology in turn submits to the users' need and handling it is intuitive. Simple is better than complicated.



isis

isis® access management – Intelligent building technology starts at the (front) door

According to a study by the Germany Association for Consumer Electronics (gfu), 13 % of German households control housing technology and appliances with a tablet PC or smartphone: in the smart home, as much as possible is networked and the benefits for residents and operators are manifold. These range from the efficient use of energy and meters that are able to communicate, showing the consumption and consumption times of energy or water, right through to access control – because: with the isis® systems from FSB, intelligent, digital building technology starts at the (front) door.

When it comes to access control, the focus is on several parameters: on the one hand the unrivalled quick reaction times when keys are lost, because lost identification media can be immediately digitally deleted and replaced, without having to physically intervene in the lock system. On the other hand, the almost unlimited options and likewise flexible modification possibilities in terms of building management, which affects the specific award of access authorisations and the use of rooms. And last but not least: convenience aspects. Whether you deal with isis® F (the biometric system for the front door), isis® M100 (the chip card-based starter package system) or isis® M300 (the online manageable access concept for complex requirements) as a builder, planner, facility manager or operator: isis® access management systems are the logical consequence of networked, digital building technology.

isis® access management stands for system intelligence, i. e. for scalable concepts that are only as complex as you need them to be and likewise for particular operating convenience. Moreover, we have strictly tuned isis® to the specific needs of builders: whether they are used for private house building, modernisation, renovation or conversion, by small businesses, the trades, medium-sized enterprises or corporate groups, for working and/or living, production or administration – wherever (many) people come together in buildings, isis® systems from FSB are ideal.

With the isis® system family, we always offer the solution that is just right for you – also from a budgeting point of view. Take a look and see for yourself.

isis® M systems

isis® M combines digital authentication with mechatronic function. The technology processes submit to the users' need and operation is intuitive. From operating the door pull with all its ergonomic benefits to simply holding the identification medium in front of the lock, the unlimited ability to use it on almost any common type of door and assemble it like a fitting thanks to battery power without additional electrical design, through to the specially developed isis® software.

From page 53

isis® F series

The isis® F series impresses in an aesthetic, functional and ergonomic respect with its finger scanner integrated in the pull: with the Fingerscan pull, identification takes place directly on the pull and not on the door or even in the door peripherals. As you already know: "Simple is better than complicated."

From page 87



product
design
award

2009 gold



Designpreis
Deutschland
2010

SILVER



German
Design Award

WINNER 2014

Overview of isis®

isis® M100 and isis® M300



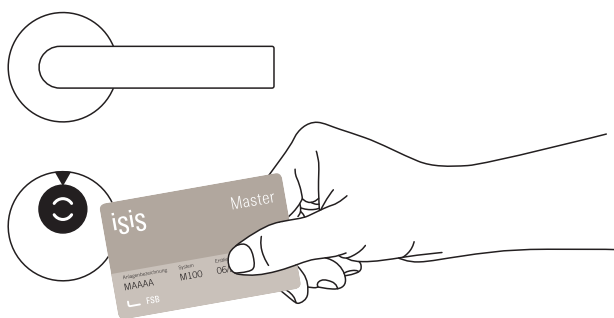
isis® from FSB – for all types of building

The isis® access management concept was specially aimed at the common building element types found in architecture. These include solid, frame and fully glazed doors as well as outside doors – naturally with the relevant approvals pursuant to DIN 18 273 (fire and smoke safety doors)

and DIN EN 179 (emergency exit locks). In this respect, the hardware-based technology has not only proved to be an optimal constellation in terms of function, design and ergonomics, but also as an ideal way of producing an extremely consistent fitting “from one casting”. Whether

it is for a new or existing door plays just a little part as the often separately required electrical design or the corresponding installation of the doors.

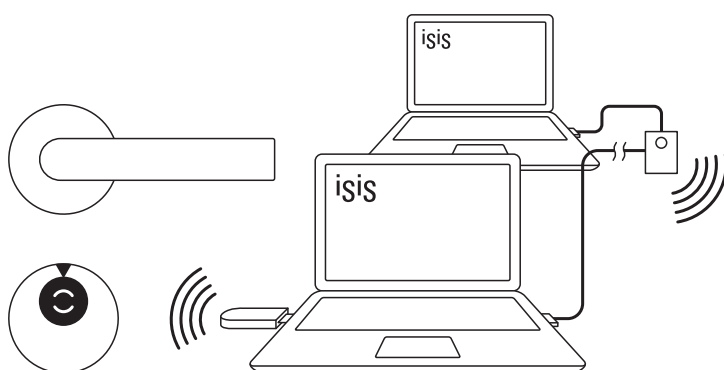
isis® M100



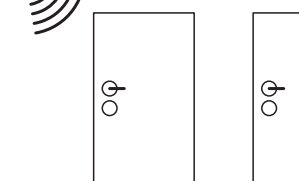
- for less complex requirements
- for residential and public project construction, ideal for small properties
- attractively priced thanks to card-based programming



isis® M300



- for complex requirements
- ideal for different types of property applications
- full online capability
- scope for offline functions
- on/offline functions can be combined
- possible to use third-party media (ISO 14 443)



isis® T300 and isis® F



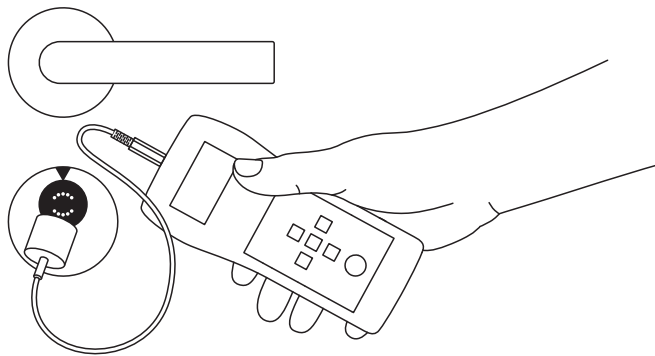
2

And as ideally as isis® fittings can be used on nearly all doors, the use of isis® systems in buildings is just as unlimited in principle: whether they are used for private house building, modernisation, renovation or conversion, by small businesses, the trades, medium-sized enterprises or

corporate groups, for working and/or living, production or administration – wherever people move around in buildings, isis® systems from FSB are the perfect answer to all questions concerning access organisation. Beyond the core application, a number of specific functions and special

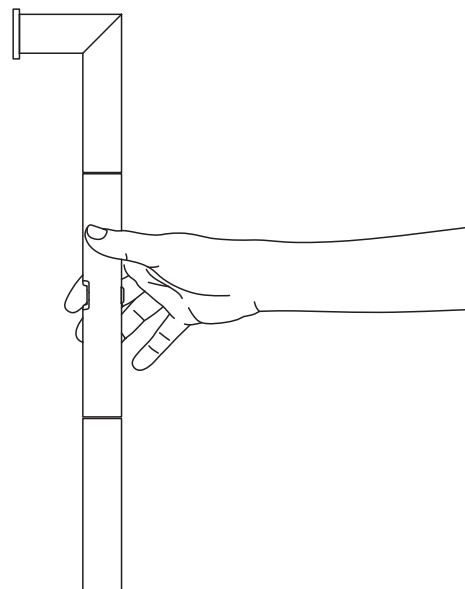
features are possible, which we tailor to your individual needs. In this respect: tell us what we can do for you and which safety and organisation requirements there are in your building. It's in your hand – isis® from FSB.

isis® T300



- for highly complex requirements and heterogeneous building structures
- ideal for different types of property applications
- possible to integrate third-party systems using various interfaces

isis® F



- ideal for residential construction
- biometrics system in exclusive design
- with individual configurations; comes with a choice of three different control and functional concepts

Overview

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Page 72f.



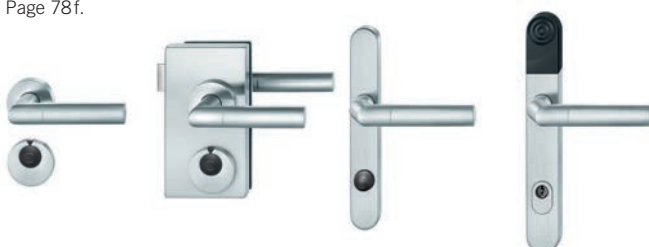
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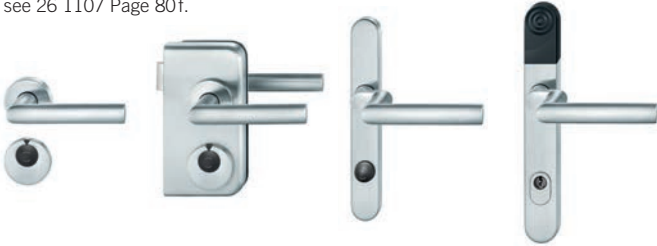


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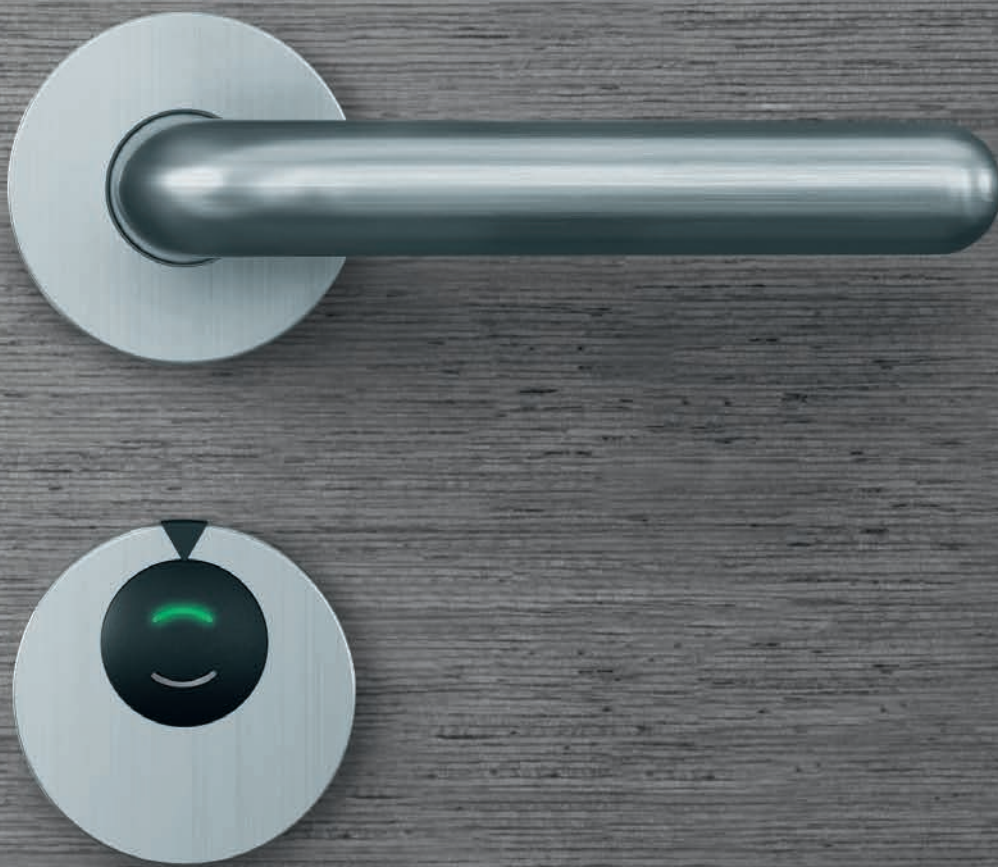
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Intelligence with a system
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to the outside door
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isis® M systems incorporate the classic hardware expertise of FSB with all the convenience, flexibility and organisation aspects of an electronic system. isis® offers a new experience of keys from both a functional as well as from an aesthetic point of view.



isis

isis® M system from FSB: Because simple is better than complicated

isis® M100 incorporates the technical features and ergonomic merits of isis® access management systems in a compact “starter pack” that’s child’s play to handle. isis® M300, with identical design, convenience and functional features, stands for a network-capable solution for more complex requirements.

isis® M100 – child’s play to handle thanks to card-based administration on the hardware itself

Whether for use in private houses, doctors’ surgeries, lawyers’ chambers or other premises of similar size: the far lower degree of complexity compared to conventional systems – there are no additional software installations, training sessions or external programming devices involved – makes isis® M100 the perfect solution for buildings with few doors or tight budgets.

The difference to classic complex systems is the way in which the rights of access are managed. Whilst this is normally done using stationary software, isis® M100 operates with hardware-level programming, thus making it easier to get started with a networked, self-supporting system of electronic access management.

At the heart of isis® M100 are four key cards incorporating MIFARE™ DESFire EV1 technology, which allow rights of access to be granted and deleted on the door itself: one master card, one key card (the actual “key – also available in the form of a key fob) plus clone card and the office card. It is remarkably easy to “train” or delete a key. The master is placed close to the hardware to initiate the programming process. After that the same is done with the key or the clone. Finished! The right of access is awarded and the key is ready to use. If the key is to be given the activation option of a permanent release (office function) in addition, the office card is first placed next to the fitting after the master. Key and clone card are “paired” with one another at the factory, meaning that it is possible to train or delete the key card without it being present using the clone card alone.

isis® M300 – Convenient thanks to LAN-based online administration

isis® M300 transfers the technical features and ergonomic benefits of the isis® concept to a network-capable solution for complex requirements. isis® M300 is the next step up from its “little brother”, isis® M100, whose card-based programming makes it an ideal starter pack for smaller buildings. In medium to large buildings, isis® M300 reveals the benefits of a completely LAN-based system of administering rights of access, whereby any number of doors can be conveniently activated and administered from a PC. There is also scope for offline control on the actual hardware using a laptop combined with a USB transmitter stick. Users are authenticated at the door – as with isis® M100 – by holding a key card or key fob up close to the hardware.

isis® M systems = Always scalable + easy to administer

Short response times and contactless operation put isis® M300 streets ahead of electronic cylinder systems. With isis® M300 you will be opting for a compact solution notable for its ease of handling that performs admirably in buildings with large numbers of doors and users. Anyone using the isis® M100 starter pack can easily upgrade to isis® M300. Hardware such as identification media can continue to be used without restriction.

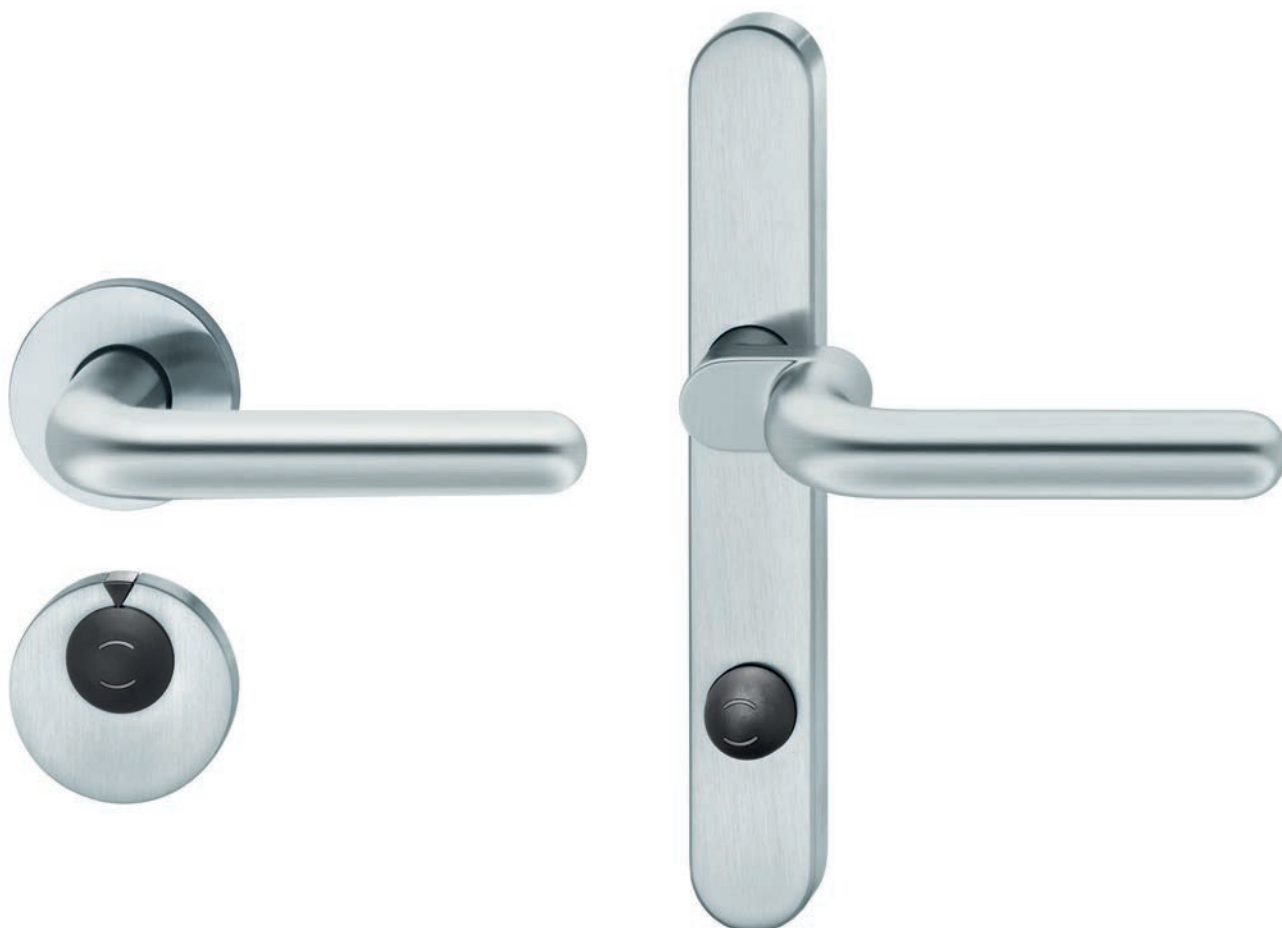
Door handle model FSB 1147 is shown on the following double-page spread as an example of the different fittings available.

For a system presentation, initial sales advice or to actually plan an isis® access solution, please contact us under info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

2a



Consistent and convenient right up to the outside door



isis® M systems: Only as complex as you need them to be

The low level of complexity without additional software installations and external programming devices makes isis® M100, with its card-based administration on the hardware, the perfect solution for buildings with few doors or tight budgets and is particularly recommended for smaller properties. “Run-around administration” comes to an end with isis® M300: isis® M300 relies on convenient administration software and a network of isis® access points, which take effect on the fittings

online. In medium-sized or large buildings, controlling the hardware and allocating rights of access from a central PC/laptop is ideal.

Incidentally: isis® systems – like the rest of our supply range with more than 25,000 product – is certified according to ISO 14 025. isis® is therefore perfect for integration in efficient, user-friendly buildings that protect the environment.

Consistent

isis® M systems boast classical backplate/rose visuals and are available for solid, glass and frame doors. Their ability to be combined with a host of attractive FSB door handle models in aluminium, stainless steel, brass and bronze ensures a perfect match with the surrounding architecture and your own personal taste. Readers for wall-mounting and a security fitting for outside doors are also available.



Child's play

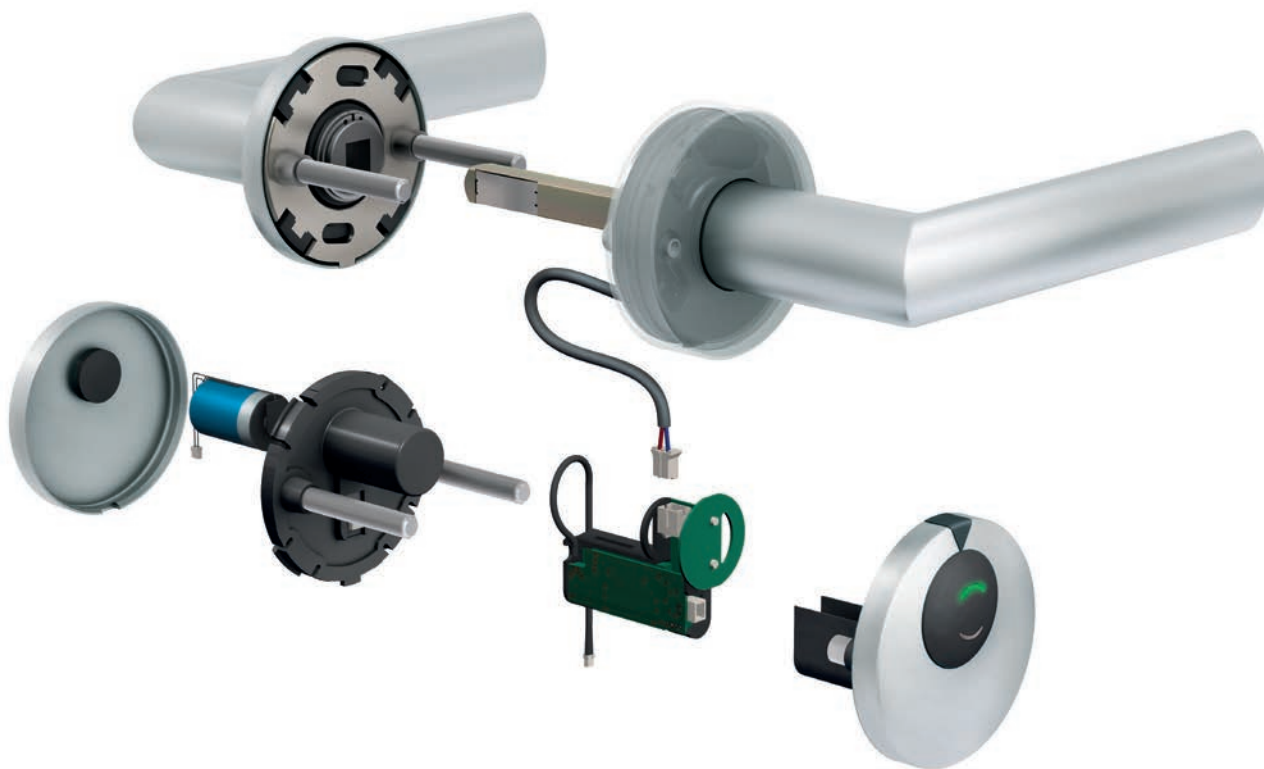
At the heart of the isis® M systems is the battery-operated M10 identification unit. Housed in a rose or backplate, it ensures dependable communication with the isis® access points, the isis® RF USB stick and of course the identification media in the form of a key card or key fob. Optical and acoustic signals accompany the identification processes, which is triggered when the ID medium is held close to the hardware.

Secure inside and out

The convenient isis® operating concept is perfectly rounded off on outside doors: the security fitting used here can be combined with a self-locking lock and thus unites the benefits of contactless identification with programmed hardware functionality whilst having a security effect: as soon as the door closes, it is automatically locked. When positive identification is presented and the handle is operated, it is automatically unlocked again. The door can be opened without having to separately

operate a cylinder or the like. The isis® M300 security fitting guarantees the secure protection of external points of access pursuant to DIN 18 257 security class ES-1 L-ZA (Reg. No. 3V63) and DIN EN 1906 security class 2. Moreover, isis® M fittings meet the requirements of directives 2002/95/EC (RoHS), 1999/5/EC and the R&TTE. You can find more information about this at www.fsb.de/reach_rohs

Technology and functional description



Passive transponder technology

Identifiers are contactlessly authenticated by the electronic module with the aid of passive transponder technology. They are automatically recognised as being either authorised or unauthorised by the electronic module in the “key rose” upon being held up close to the hardware. The transponder in the identifier contains specified or custom-programmable information and yet requires no batteries and no maintenance whatsoever.

“Passive transponder technology” means that the power needed to communicate and to complete internal processes is drawn solely from the field of the scanner, i. e. the identifier does not require its own supply of current.

The electronic module for the isis M system operates with MIFARE™ chip technology by NXP. Data are communicated at a frequency of 13.56 MHz. Secure encryption with a suite-specific security feature is achieved in conjunction with the key cards on the basis of MIFARE™ DESFire EV1. This technology meets the most exacting security specifications and is technically state-of-the-art.

FS approval for fire doors

isis® fittings from FSB mean a considerable simplification of the planning work as well as offering security about liability and complaints. As regards use on fire safety components, the isis® fittings are approved for fire safety and meet the applicable requirements according to DIN 18 273. Over and above this they can even be used for emergency exits with door handles pursuant to DIN EN 179 in conjunction with suitable locks.

Both for renovations and for new buildings, the advantages are clear: owing to its FS approval, isis® can be installed on corresponding fire doors, without having to add the use of the fitting to the building’s monitoring documents. Already existing FS doors or even FS doors preconfigured with other fittings can continue to be used without any problems and isis® fittings can be used to bring them up to the latest level.

Readers with internal and external control unit



2a

Compact readers for activating peripheral functions

In addition to its classic door handle furniture for flush, glass and frame doors, FSB also supplies compact readers with integrated control units in housings made by noted manufacturers. There is a choice of a number of designs matching the standard product lines by these manufacturers. The administration and operating concept corresponds to that of the isis® M door handle furniture, thus guaranteeing the comprehensive continuity one is accustomed to from FSB.

Compact readers enable motorised locks and door openers to be actuated, but can also be used for turnstiles, parking barriers and various other peripheral items used in building automation (e.g. for lift or light control systems) both indoors and out. ELCOM Modesta, Siedle Vario and Gira TX44 are for use in outdoor settings, as their housings also have an IP44 rating. The Gira Event model comes in a variety of different colour schemes for fitting indoors.

As is generally the case, when operating the device in conjunction with electronic motor locking mechanisms or electric door openers, it is necessary to ensure the relevant technical prerequisites are fulfilled.

isis® compact readers in the housing design of (from left to right):

- ELCOM Modesta
- Gira Event
- Gira TX44
- Siedle Vario

You can find the different isis® compact readers available to order on page 84 f.

isis® M100

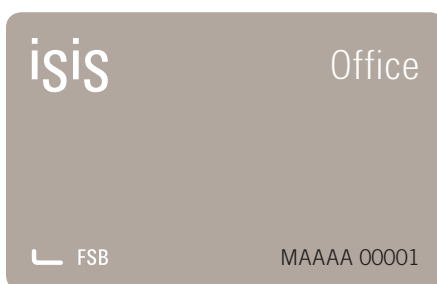
Programming using chip card

Administration



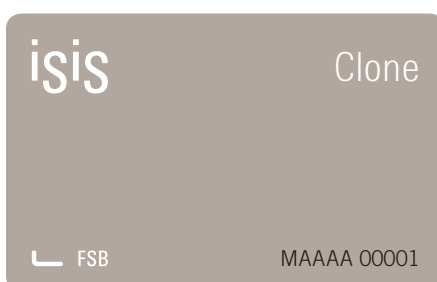
- required to administer the locking suite
- “Register user”, “Selectively delete user” and “Delete all” functions
- replacement always involves a fresh succeeding arrangement
- additional master cards can be ordered subsequently
- supplied exclusively in card form

Enable the office function



- allows a user to be released to perform the office function (permanent release)
- function only in conjunction with the master card
- additional office cards can be ordered subsequently
- supplied exclusively in card form

Clone of key card



- permits the selective registration and deletion of a key card
- remains with the administrator (preferably locked away)
- not authorised to open the door!
- only supplied as a pair with key card
- supplied exclusively in card form

↑ Clone- and key-card are “coupled” ex works ↓

Key card or key fob for the user



- serves as means of authentication
- only supplied as a pair with clone card
- supplied as standard as a card
- optionally as key fob of appropriate design
- optionally on request:
 - white cards
 - plastic key fobs
 - cards with customer logo

At the heart of isis® M100 are four key cards with MIFARE™ DESFire EV1 technology, which guarantee secure encryption with a security feature specific to the system and which allow programming on the door itself. Key and clone are uniquely and irreversibly assigned to each other at the factory, meaning that programming the key even without it being present is only possible using the clone.

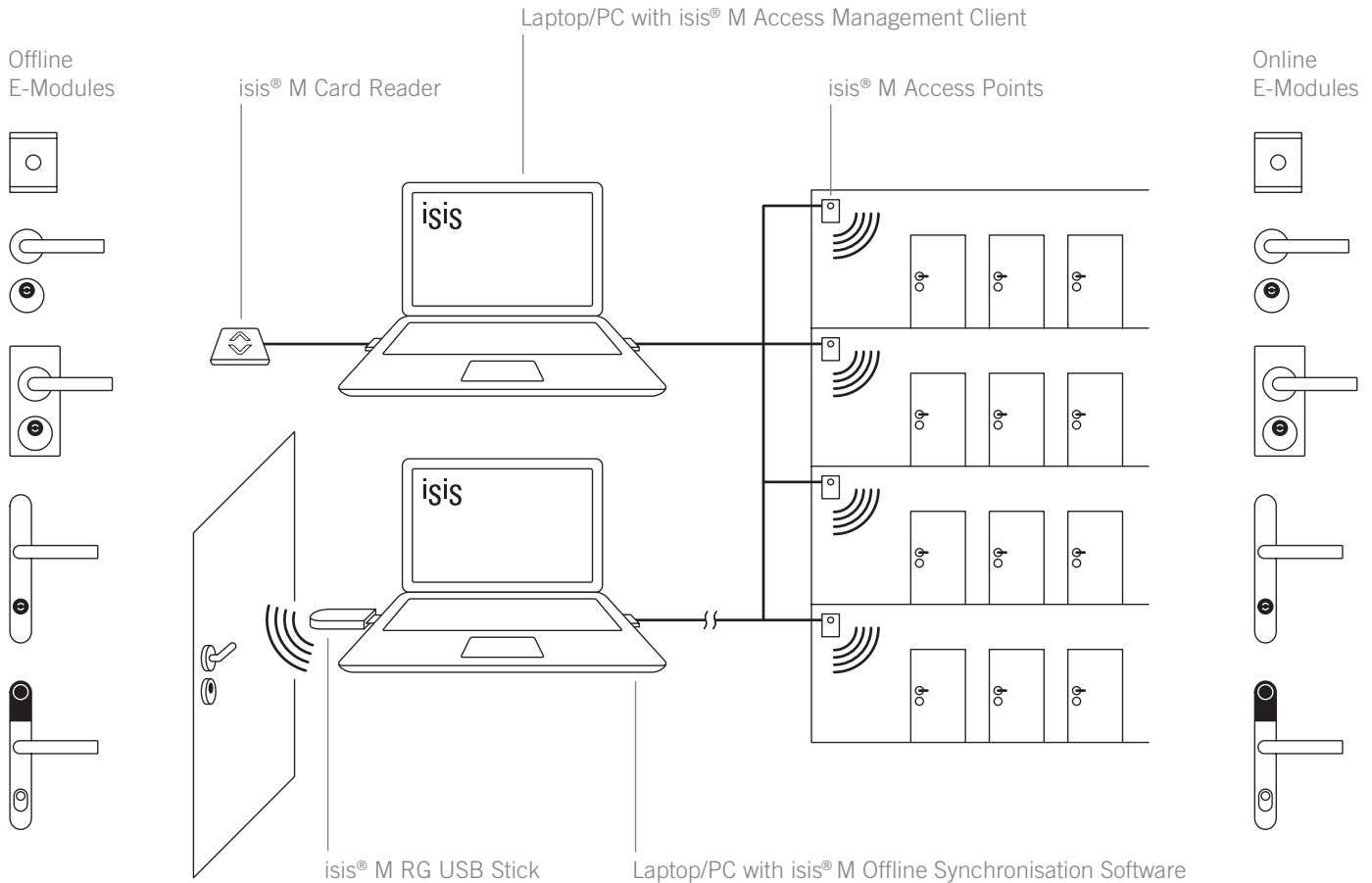
Key Fob Emergency



- Used for authentication in an emergency (e.g. fire-fighting)
- Initialised at the factory for all components already supplied
- Automatically initialised for all components supplied subsequently
- Authorisations cannot be cancelled
- Activates unrestricted office function

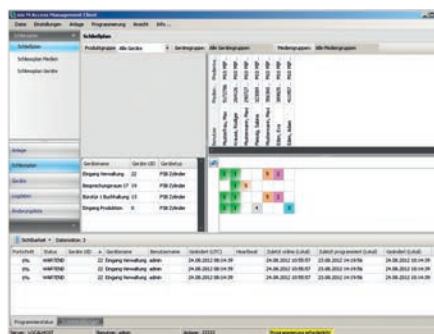
isis® M300

Online administration child's play

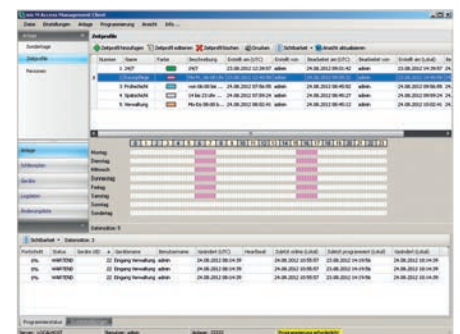


Underpinning isis M300 is isis access management software for administration of the lock suite from a PC/laptop. This is complemented by components for either radio networking throughout the building or hardware-level actuation.

User-friendly isis access management software is wholly responsible for the administration of the isis M300 system as well as for awarding and deleting access rights as appropriate. The rights of given identifiers may be limited for each fitting by means of time profiles applicable to the entire system. Communication with fittings can be effected either via LAN-networked isis access points (online mode) or using a laptop in conjunction with the isis USB transmitter stick in the direct vicinity of a fitting (offline mode). Actuation is performed with the aid of a transmitter stick at locations in a building at which there are no access points, e.g. in the case of



Creating a locking plan



Administering specific time profiles

single doors beyond the range of an access point or in areas in which radio networks are either not permissible or not feasible. isis M300 can be installed as a purely online, purely offline or hybrid system.

Characteristics and advantages of the system

Characteristics of the system

- Flexible administration of access authorisations for keys on fittings and readers
- Corresponds to EN 1906 class 4
- Approval to DIN 18 273 (fire and smoke doors)
- Approval to DIN EN 179 (emergency exit locks), in combination with APK locks
- Contact-free communication between keys and fittings or readers
- Passive technology with MIFARE DES-Fire EV1 transponders in conjunction with security features specific to the installation
- Keys contain an identification feature specific to the installation
- Both individual access and office function possible
- Modular and flexibly extensible locking system
- Power supplied to fittings by means of lithium battery 3.6V 1/2 AA. Service life approx. 2.5 years depending on type of function and operating frequency
- The access information is stored in the fitting or the reader

Advantages of the system

- If the key is lost:
 - high organisational security and low maintenance costs by simply deleting lost keys
 - it is not necessary to replace parts of the locking system
- Quick response times and contact-free electronic identification,
- combined with particularly convenient operation of the hardware using the door handle
- Unlimited flexibility when changing room usage and access authorisations
- The only hardware solution across the sector which uses classic roses which look like they are designed for the home
- Available in aluminium, stainless steel, brass and bronze
- Available in various handle designs, custom versions possible on request
- Suitable for interior doors made of glass, wood and steel as well as frame doors; the only electronic access control fitting solution for full glass doors across the sector.
- Hardware-based solution
- Quick and easy installation
- No problem to supply emergency power via external 9V battery (in case of security fitting for external doors, possible to open in an emergency using mechanical locking cylinder)
- Easy to handle for the user with uniform operating and signalling concept

Planning benefits

- Stand alone solution which does not require on-site preparations for electrical power or connections to external interfaces
- Power supplied to the hardware independently from the electrical network using an integrated battery for maximum flexibility from the planning phase onwards
- Quick and easy installation
- Use is simple and flexible, suitable for all Euro cylinder locks to DIN standards
 - from a backset of 50 mm with an operating angle of max. 30° for rose fittings,
 - from a backset of 30 mm with an operating angle of max. 30° for tubular frame fittings and
 - from a backset of 35 mm with an operating angle of max. 39° for security fittings
- It is possible to easily retrofit to existing doors and locks
- External entrances: unique combination of technology, convenience and security effect by combining isis® M security fittings with self-locking systems
- Harmonised part of FSB's comprehensive range of heavy-duty door and window fittings and products to equip the interiors of large buildings
- Customer-related organisational philosophy in the factory: all of the electronic components which belong to a building are given a dedicated security parameter
- Highest security for orders: you must possess the master to be able to order additional components
- System upgrades e.g. from isis® M100 to M300 possible without replacing the fittings or readers

isis® M100 + isis® M300

Specific system features and benefits

2a

System features

isis® M100

- For residential construction, ideal for smaller properties
- For buildings with less complex system requirements
- Attractively priced thanks to card-based programming
- No software, complex administration or dedicated hardware such as programming devices required
- Access authorisation is contactlessly registered or deleted by holding the master and key/clone cards up close

isis® M300

- Ideal for various project applications with complex system requirements and building structures
- Fully online-capable by means of LAN-based wireless network, authorisations are awarded directly
- Offline-capable using netbook and RF USB stick, authorisations are awarded indirectly
- Both online and offline components can be used in one locking concept
- The use of contactless external media pursuant to ISO 14 443, e.g. MIFARE Classic on UID basis without security features is possible after testing

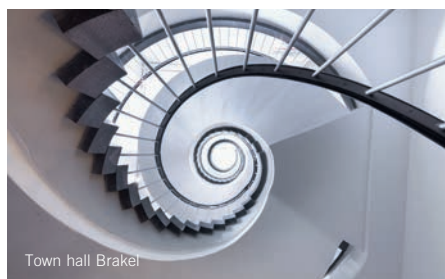
System benefits

isis® M100

- Makes access management possible for smaller properties or buildings with few doors, whose access has not previously been able to be organised electronically in a cost-effective manner
- Card-based administration and operating concept requires no specialist knowledge, can easily be learnt by lay people too
- Easy to manage the authorisations using the isis® M100 key and clone concept: the key stays with the user, the clone with the administrator
- isis® M100 can easily be upgraded to M300, existing isis® M hardware and media can continue to be used without changes

isis® M300

- Can be used almost without restriction in all types of building, specifically matched to their utilisation
- Easy to define locking hierarchies and procedures using intuitive to learn isis® M access management software with particularly convenient functions
- The isis® M access management software stands for full monitoring of the doors and e-modules. It effectively enables information to be obtained about access to doors and ensures their current status can be monitored at all times.



isis® architectural tours

Projects using various isis® system solutions can be found under

fsb.de/rathaus_brakel
fsb.de/gymnasium_bochum
fsb.de/erichkaestner_schule_oelde
fsb.de/st_petri_hoexter

isis® M300 white paper

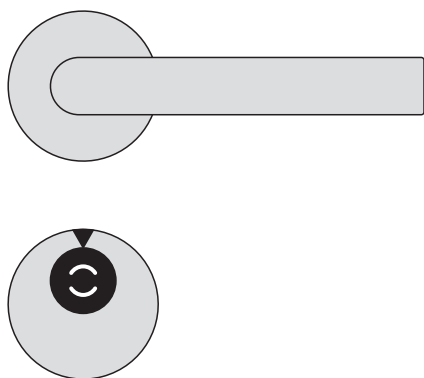
Our white paper provides you with detailed and extensive information about all the functions, features and benefits of isis® M300 listed here. You can find the white paper (PDF) under

fsb.de/isisM300

isis® M100

Hardware sets

For solid doors

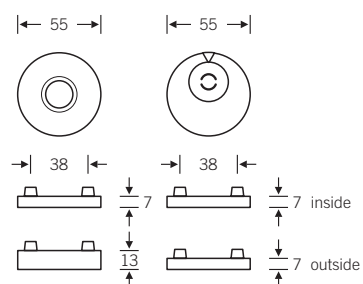


- 26 01004 (R) | 01005 (L)
- 26 02014 (R) | 02015 (L)
- 26 02014 (R) | 02015 (L)

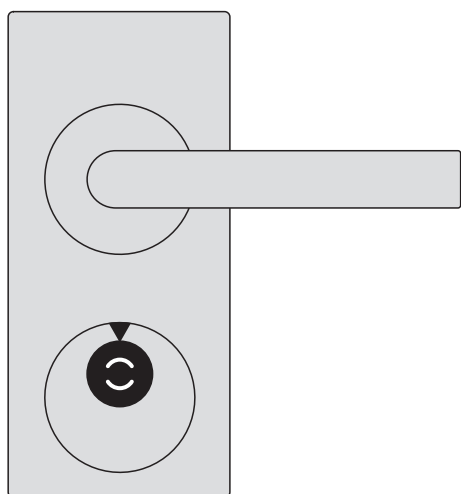
Spacings 55, 70, 72, 88 and 92 mm

Available with surface-mounted roses

For locks with backset from 50 mm
Max. hardware operating angle 30°



For glass doors

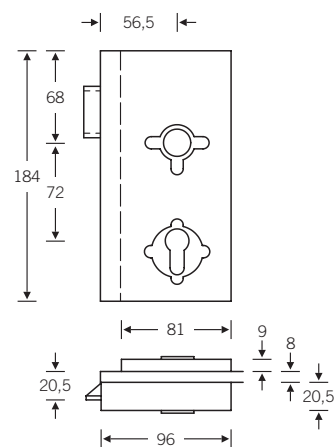


- 26 01004 (R) with
13 4220 03005 (L)*
- 26 01005 (L) with
13 4220 03004 (R)*

Spacing 72 mm

Installed at the factory for glass
thicknesses 8 and 10 mm

Lock is supplied as part of the
glass door fitting



Illustrations: DIN left hand set, DIN right
hand glass door fitting, for door opening
details see page 738f.

The number of the FSB door handle model
must be added to the item number.

* Also possible for glass door fitting
13 4223, for dimensions see dimension
drawing (identical), glass door fitting can
also be supplied with self-locking anti-
panic lock

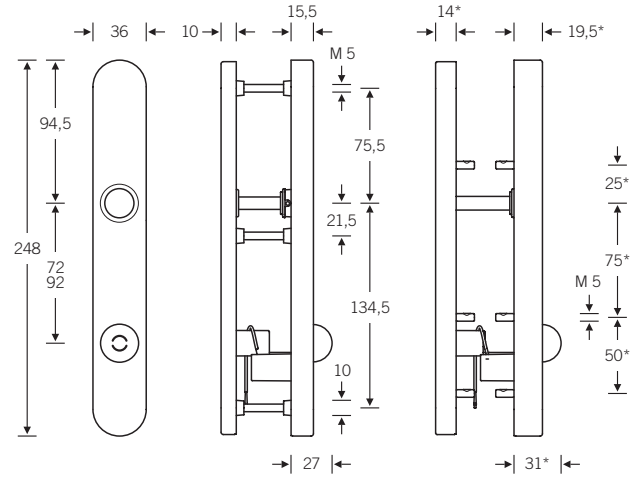
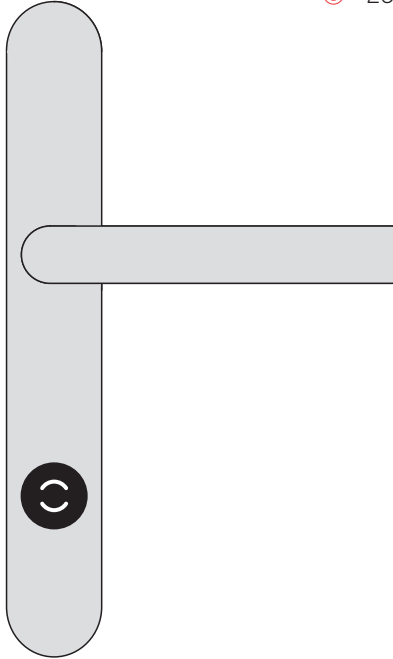
For frame doors

- Without adapter plate
 26 05402 (R) | 05502 (L)
 26 05412 (R) | 05512 (L)
 26 05412 (R) | 05512 (L)

- With adapter plate*
 26 05612 (R) | 05712 (L)
 26 05612 (R) | 05712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
 Max. hardware operating angle 30°

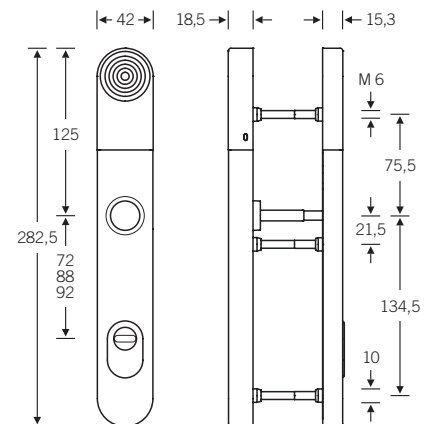
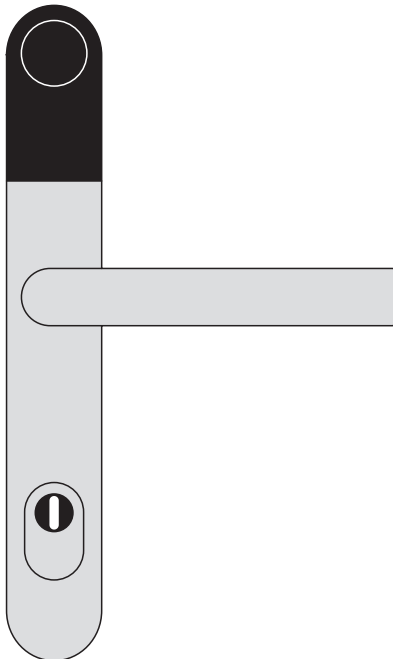


For outside doors (security fitting)

- 26 15402 (R) | 15502 (L) 8 mm □
 26 15461 (R) | 15561 (L) 8.5 mm □
 26 15422 (R) | 15522 (L) 10 mm □
 26 15412 (R) | 15512 (L) 9 mm □
 26 15412 (R) | 15512 (L) 9 mm □

Spacings 72, 88 and 92 mm
 Protection rating on outside IP 54

For locks with backset from 35 mm
 Max. hardware operating angle 39°




Illustrations: DIN left hand set, for door opening details see page 738f.


* For FH elements in the range with pre-drilled oval rose


The number of the FSB door handle model must be added to the item number.

26 1015 

Fittings for solid doors

 26 1015 01004 (R) | 01005 (L)

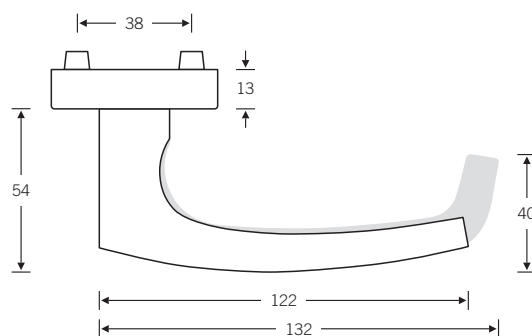
 26 1015 02014 (R) | 02015 (L)

 26 1045 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm

Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M



surface-mounted





Fittings for glass doors

- ☞ 26 1015 01004 (R) with 13 4223 03005 (L)**
- ☞ 26 1015 01005 (L) with 13 4223 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting



Fittings for frame doors

Without adapter plate

- ☞ 26 1015 06402 (R) | 06502 (L)
- ☞ 26 1015 06412 (R) | 06512 (L)
- ☞ 26 1045 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1015 06612 (R) | 06712 (L)
- ☞ 26 1045 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting

Fittings for outside doors

- ☞ 26 1015 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1015 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1015 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1015 16412 (R) | 16512 (L)
9 mm □
- ☞ 26 1045 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm
For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.

To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose


** Also possible for glass door fitting 13 4220

Additional items for large buildings:

Product family FSB 1015 | Page 126f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

26 1016 

Fittings for solid doors

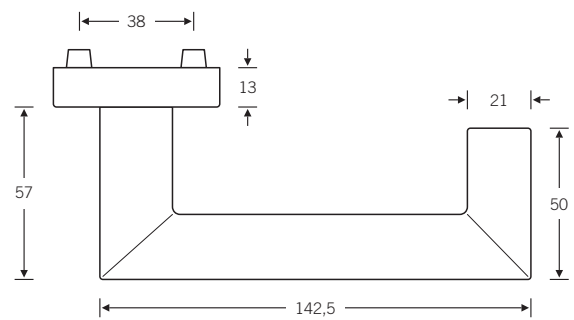
 26 1016 01004 (R) | 01005 (L)

 26 1016 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm

Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M



surface-mounted





Fittings for glass doors

- ☞ 26 1016 01004 (R) with 13 4220 03005 (L)**
- ☞ 26 1016 01005 (L) with 13 4220 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting



Fittings for frame doors

Without adapter plate

- ☞ 26 1016 06402 (R) | 06502 (L)
- ☞ 26 1016 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1016 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting



Fittings for outside doors

- ☞ 26 1016 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1016 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1016 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1016 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm

For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.


To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose




** Also possible for glass door fitting 13 4223

Additional items for large buildings:

Product family FSB 1016 | Page 130f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

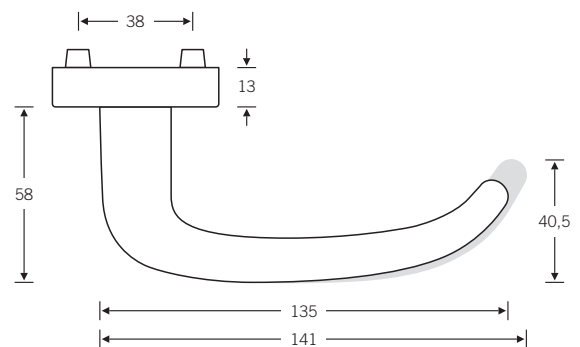
26 1023 

Fittings for solid doors

-  26 1023 01004 (R) | 01005 (L)
-  26 1023 02014 (R) | 02015 (L)
-  26 1053 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M





Fittings for glass doors

- ☞ 26 1023 01004 (R) with
13 4223 03005 (L)**
- ☞ 26 1023 01005 (L) with
13 4223 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting



Fittings for frame doors

Without adapter plate

- ☞ 26 1023 06402 (R) | 06502 (L)
- ☞ 26 1023 06412 (R) | 06512 (L)
- ☞ 26 1053 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1023 06612 (R) | 06712 (L)
- ☞ 26 1053 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting

Fittings for outside doors

- ☞ 26 1023 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1023 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1023 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1023 16412 (R) | 16512 (L)
9 mm □
- ☞ 26 1053 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm
For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.


To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose



** Also possible for glass door fitting 13 4220

Additional items for large buildings:

Product family FSB 1023 | Page 138f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

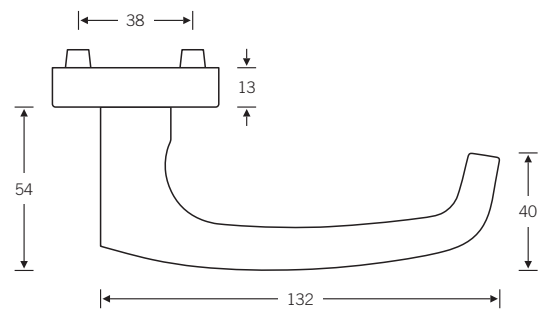
26 1045 

Fittings for solid doors

-  26 1045 01004 (R) | 01005 (L)
-  26 1045 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M



surface-mounted





Fittings for glass doors

- ☞ 26 1045 01004 (R) with
13 4223 03005 (L)**
- ☞ 26 1045 01005 (L) with
13 4223 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting



Fittings for frame doors

Without adapter plate

- ☞ 26 1045 06402 (R) | 06502 (L)
- ☞ 26 1045 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1045 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting

Fittings for outside doors

- ☞ 26 1045 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1045 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1045 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1045 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm

For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.

To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose



** Also possible for glass door fitting 13 4220

Additional items for large buildings:

Product family FSB 1045 | Page 154f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

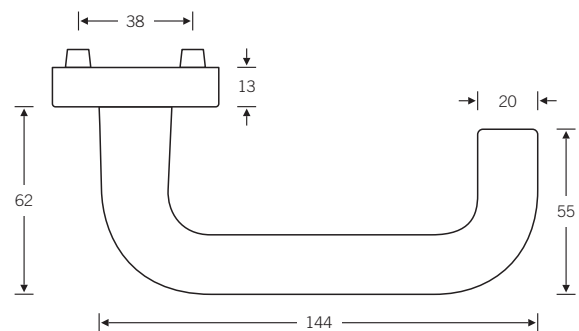
26 1070 

Fittings for solid doors

-  26 1070 01004 (R) | 01005 (L)
-  26 1070 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M



surface-mounted





Fittings for glass doors

- ☞ 26 1070 01004 (R) with 13 4223 03005 (L)**
- ☞ 26 1070 01005 (L) with 13 4223 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting



Fittings for frame doors

Without adapter plate

- ☞ 26 1070 06402 (R) | 06502 (L)
- ☞ 26 1070 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1070 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting



Fittings for outside doors

- ☞ 26 1070 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1070 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1070 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1070 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm

For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.

To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose


** Also possible for glass door fitting 13 4220

Additional items for large buildings:


Product family FSB 1070 | Page 164f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

26 1076 

Fittings for solid doors

 26 1076 01004 (R) | 01005 (L)

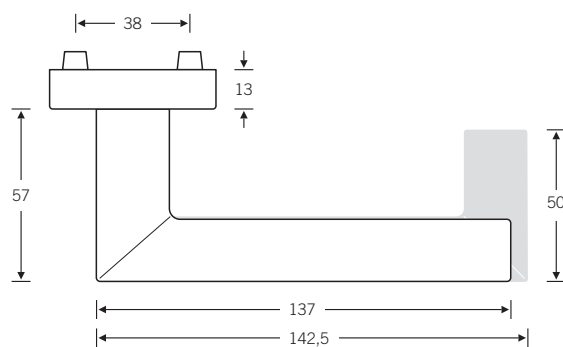
 26 1076 02014 (R) | 02015 (L)

 26 1016 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm

Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M



surface-mounted





Fittings for glass doors

- ☞ 26 1076 01004 (R) with 13 4220 03005 (L)**
- ☞ 26 1076 01005 (L) with 13 4220 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fittings

Illustration: DIN left hand fitting and DIN right hand glass door fitting

Fittings for frame doors

- Without adapter plate
- ☞ 26 1076 06402 (R) | 06502 (L)
 - ☞ 26 1076 06412 (R) | 06512 (L)
 - ☞ 26 1016 06412 (R) | 06512 (L)

- With adapter plate*
- ☞ 26 1076 06612 (R) | 06712 (L)
 - ☞ 26 1016 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting

Fittings for outside doors

- ☞ 26 1076 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1076 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1076 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1076 16412 (R) | 16512 (L)
9 mm □
- ☞ 26 1016 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm
For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.


To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose


** Also possible for glass door fitting 13 4223


Additional items for large buildings:


Product family FSB 1076 | Page 170f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

26 1078 

Fittings for solid doors

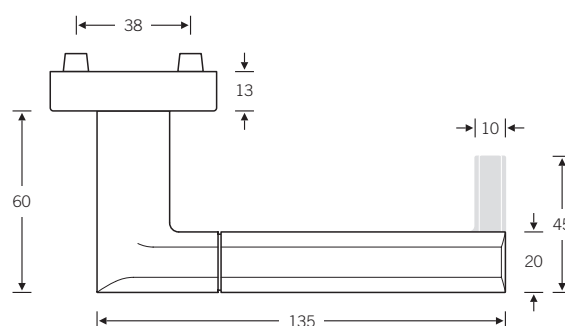
 26 1078 01004 (R) | 01005 (L)

 26 1078 02014 (R) | 02015 (L)

 26 1088 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M



surface-mounted



Design:
Christoph Ingenhoven

 EN 179 model: FSB 26 1088

fsb.de/261078



Fittings for glass doors

- ☞ 26 1078 01004 (R) with 13 4220 03005 (L)**
- ☞ 26 1078 01005 (L) with 13 4220 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting

Fittings for frame doors

Without adapter plate

- ☞ 26 1078 06402 (R) | 06502 (L)
- ☞ 26 1078 06412 (R) | 06512 (L)
- ☞ 26 1088 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1078 06612 (R) | 06712 (L)
- ☞ 26 1088 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting

Fittings for outside doors

- ☞ 26 1078 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1078 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1078 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1078 16412 (R) | 16512 (L)
9 mm □
- ☞ 26 1088 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm
For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.

To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose


** Also possible for glass door fitting 13 4223


Additional items for large buildings:


Product family FSB 1078 | Page 176f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

26 1107 

Fittings for solid doors

 26 1107 01004 (R) | 01005 (L)

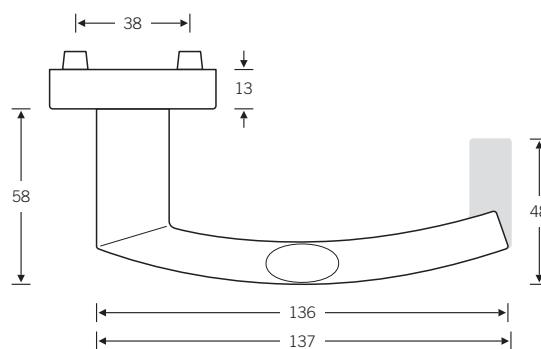
 26 1107 02014 (R) | 02015 (L)

 26 1177 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm

Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M



surface-mounted



EN179

Design: Hartmut Weise

 EN 179 model: FSB 26 1177

fsb.de/261107

Door handle with a straight grip section:
FSB 1108 see page 196f.



Fittings for glass doors

- ☞ 26 1107 01004 (R) with 13 4223 03005 (L)**
- ☞ 26 1107 01005 (L) with 13 4223 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting



Fittings for frame doors

Without adapter plate

- ☞ 26 1107 06402 (R) | 06502 (L)
- ☞ 26 1107 06412 (R) | 06512 (L)
- ☞ 26 1177 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1107 06612 (R) | 06712 (L)
- ☞ 26 1177 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting

Fittings for outside doors

- ☞ 26 1107 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1177 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1107 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1107 16412 (R) | 16512 (L)
9 mm □
- ☞ 26 1177 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm
For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.

To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose




** Also possible for glass door fitting 13 4220

Additional items for large buildings:

Product family FSB 1107 | Page 192f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

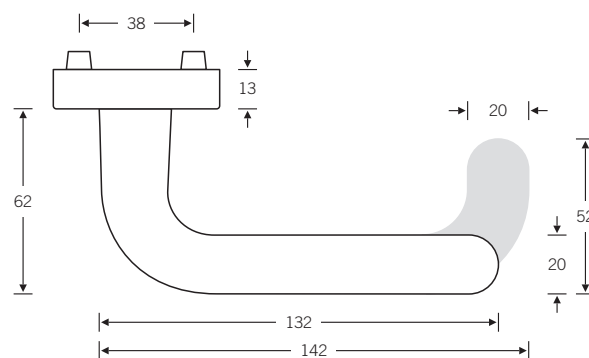
26 1147 

Fittings for solid doors

-  26 1147 01004 (R) | 01005 (L)
-  26 1147 02014 (R) | 02015 (L)
-  26 1146 02014 (R) | 02015 (L)

Spacings 55, 70, 72, 88 and 92 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting



isis® M100



surface-mounted





Fittings for glass doors

- ☞ 26 1147 01004 (R) with 13 4223 03005 (L)**
- ☞ 26 1147 01005 (L) with 13 4223 03004 (R)**

Spacing 72 mm

Installed at the factory for glass thicknesses 8 and 10 mm

Lock is supplied as part of the glass door fitting

Illustration: DIN left hand fitting and DIN right hand glass door fitting



Fittings for frame doors

Without adapter plate

- ☞ 26 1147 06402 (R) | 06502 (L)
- ☞ 26 1147 06412 (R) | 06512 (L)
- ☞ 26 1146 06412 (R) | 06512 (L)

With adapter plate*

- ☞ 26 1147 06612 (R) | 06712 (L)
- ☞ 26 1146 06612 (R) | 06712 (L)

Spacing 72 and 92 mm

For locks with backset from 30 mm
Max. hardware operating angle 30°

Illustration: DIN left hand fitting

Fittings for outside doors

- ☞ 26 1147 16402 (R) | 16502 (L)
8 mm □
- ☞ 26 1147 16461 (R) | 16561 (L)
8.5 mm □
- ☞ 26 1147 16422 (R) | 16522 (L)
10 mm □
- ☞ 26 1147 16412 (R) | 16512 (L)
9 mm □
- ☞ 26 1146 16412 (R) | 16512 (L)
9 mm □

Spacings 72, 88 and 92 mm
For locks with backset from 35 mm
Max. hardware operating angle 39°

Illustration: DIN left hand fitting

For door opening details see page 738f.

To plan an isis® access solution, please contact us at info@fsb.de. You will find a contact person in your vicinity at www.fsb.de/contact

* For FH elements in the range with pre-drilled oval rose

** Also possible for glass door fitting 13 4220

Additional items for large buildings:

Product family FSB 1147 | Page 218f.
SSF tubular frame locks with optional through screw connection | Page 406
Barrier-free ErgoSystem® | Page 629f.

isis® M100

Readers for wall-mounting

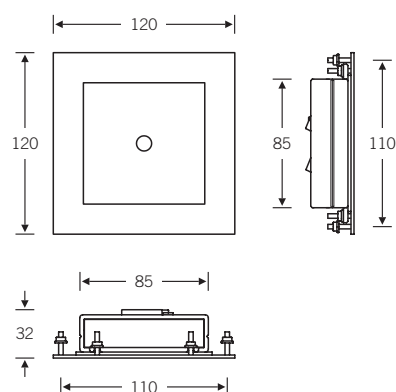
ELCOM Modesta



Reader modules,
with internal control unit
26 2504 00050 6204
for external control unit
26 2504 00051 6204
26 2504 00052 6204
(surface-mounted frame)
26 2504 00053 6204
(flush-mounted frame)

Stainless steel (6204)

Protection rating IP 44



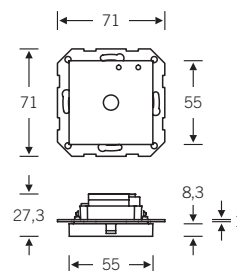
Gira Event



Reader modules,
with internal control unit
26 2504 00150
for external control unit
26 2504 00151
26 2504 00154 (cover frame)

Anthracite (8802), Pure white matt (9020)

Protection rating IP 20
Only assembled in flush-mounted box



External flush-mounted control unit
26 2504 00201 8100
External control unit top-hat rail
26 2504 00200 8100
The dimension drawings always relate to
the reader module

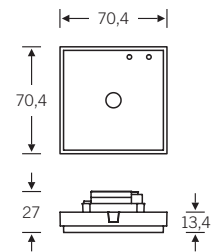
Gira TX44



Reader modules,
with internal control unit
26 2504 00152
for external control unit
26 2504 00153
26 2504 00155 (cover frame)

Anthracite (8802), Pure white (9020)

Protection rating IP 44
Only assembled in flush-mounted box



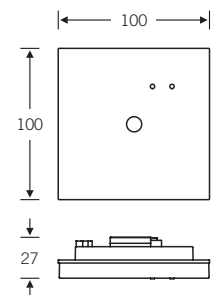
Siedle Vario



Reader modules,
with internal control unit
26 2504 00100
for external control unit
26 2504 00101
Surface mounting
26 2504 00104 (mounting frame)
26 2504 00102 (housing)
Flush mounting
26 2504 00104 (mounting frame)
26 2504 00105 (combination frame)
26 2504 00103 8800 (housing)

White (8220), Silver metallic (8826)

Protection rating IP 44



External flush-mounted control unit
26 2504 00201 8100
External control unit top-hat rail
26 2504 00200 8100
The dimension drawings always relate to
the reader module

isis® F door pulls with Fingerscan technology read from a single finger whether you get access ... or not. Biometric systems have been used in banks and high security areas for many years. Now this technology is also available for home doors, combined with FSB's familiar first class design.



isis

Thanks to isis® F (Fingerscan) your key is always in your hand

With door pulls in the isis® F series (previously Fingerscan 2.0) from FSB, you always have your keys at hand – in the truest sense of the word. Lost or even stolen keys are now finally a thing of the past. Another advantage is in the flexible arrangement of access rights. If for example you have friends or relatives to stay for a few days, you can easily grant them access to your home and simply delete the authorisation when they leave. In this way, you can conveniently program up to 99 fingers via the menu-guided programming unit and enable or delete them. It is also child's play to operate the Fingerscan door pull. Just draw a finger over the scanner and open the door.

You can choose between three different designs of pull: two classic designs with a diameter of 30 or 35 mm (recently also available in an offset version) as well as a pull with an oval cross section of 38.5 × 20 mm. The straight model with a diameter of 35 mm is also available in bronze as an alternative. To exactly match your Fingerscan pull to the proportions of your entrance door, FSB provides you with the option, for a small additional charge, of customising both the length and the position of the reader unit.

2b

isis® F at a glance:

- Unique convenience:
Puts an end to the search for lost keys, forgotten access codes or cards. Additional convenience through the combination with motorised locks.
- High comfort:
Your key is always “at hand” – one key/finger opens the door to the house, garage door, garden gate, office etc.
- Individual configurations:
Choose between 3 different control units for the variant which best matches your functional requirements.
- Ergonomics:
Easy to use due to the integration of the biometric reader into the door pull.
- Security from loss:
It is no longer possible to lose or forget your keys and lock yourself out.
- Security from theft:
It is not possible for your key to be stolen. Additional security through the combination with motorised locks.
- Proof against forgery:
Every finger is unique.
- Tamper proof:
The system cannot be affected from outside as data is encrypted making it secure.
- Easy to use:
Users save or delete the authorisations themselves (without a PC or a technician) via a menu-guided control unit which is integrated into the door.
- Simple connections:
To an electric opener, motorised lock or multiple electrical locks.
- Suitable for outdoor use:
from –40 °C to +85 °C
- Maximum service life:
Up to 4 million operations
- Damage:
Insensitive to minor damage and cuts.
- 24 month guarantee



Access with a system: Can be individually adjusted and flexibly extended

isis® F is available in three different versions of the system:

isis® F100 – with a relay to control an electric motor lock or an electric door opener.

isis® F200 – with two relays to control peripheral equipment or other functions, such as burglar alarms or garage door openers.

isis® F300 – with three relays to control peripheral equipment or other functions such as burglar alarms or garage door openers – as a surface mounted or top-hat rail solution (control unit).

You will find a detailed comparison on page 91. The three scenarios described below can each be realised using the three versions mentioned.

Retrofitting on existing doors

The FSB isis® F door pull can also be fitted to existing doors, which do not have a motorised lock or a motor-driven multi-point locking system.

Apart from the low investment costs, the isis® F door pull convinces in this case, if the door is only held for example during the day by the catch, in combination with an electric door opener. This can be controlled directly via isis® F and will release the catch on positive identification. It is also possible to open the door from a distance. The door is “classically” locked manually via the locking cylinder.

Unlocking the door via an intercom or an external push-button

The isis® F door pull is compatible with all of the significant motor operated multi-point locking systems and security locking components on the market. This applies amongst others for Winkhaus, KfV, G.U, Roto and Fuhr, so that you do not have to do without this convenience.

The advantage here is that the door is not only held by the catch and released by the external push-button, but the door is completely bolted and unbolted for each closing & opening operation.

In this respect, this constellation is the most secure, as the door is always “locked” as specified in the insurance requirements. This applies both for operation with and without the remote opening function.

“Opening times” or access rules defined by the time

isis® F also offers corresponding extension options for requirements like this, for example for the opening times of your business premises.

Within a combination of electric door openers with unlocking, at the same time it is possible to directly control the motor lock electronically for day-time/night-time operation. For this either a manually operated switch or a programmable control relay is suitable, which is directly connected to the motorised lock. For day-time operation, the door remains unlocked in both cases, for night-time operation the door will be completely bolted or unbolted after every opening/closing procedure. To define this, all you have to do is program the weekdays and the corresponding times once into the control relay so that the door can be opened during business hours without fingerprint identification. When switching manually, you have to switch between day and night mode each day.

At the installation site, a qualified electrician must make the electrical connection to the isis® F door pull.

Plug and play

The new plug-in cable connectors make it possible to install the isis® F door pulls using the “plug and play” principle. Tedious stripping of the cable insulation, cutting the wires to length and the risk of incorrect polarity are now all a thing of the past.

Your systems
& technology partner



Always at hand: Your fingers

2b

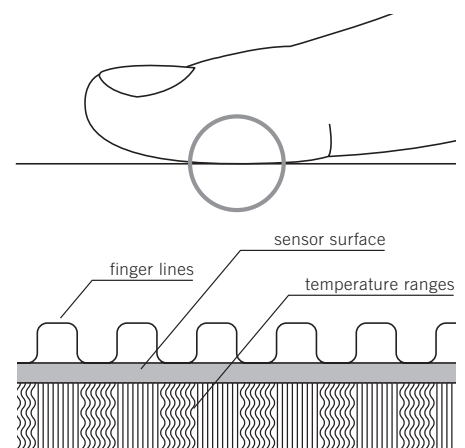
	FSB isis® F		
	isis® F100	isis® F200	isis® F300
Field of use	private		
Number of fingers	99		
Relays	1	2	3
Installation height	Scanner centre 1200 mm above finished floor level		
Power supply	230 VAC or 110 VAC via an external power supply unit		
Input voltage	8–24 VAC or 8–30 VDC		9–12 VAC or DC
Power consumption	approx. 1 W		approx. 2 W
Time-controlled access authorisation	—	Via external time switch	
Temperature range Scanner	–40 °C to +85 °C		
Humidity	max. 95 %		
Biometric parameters	FAR* 1×10^{-6} / FRR** 1.4×10^{-2}		
Security from power failure	Data is saved and will not be lost		
Security of finger scanner	tamper-protected		
Guarantee	24 months		
Service life	4 million finger scans (under normal conditions)		

*FAR = False Acceptance Rate: The system recognises a person who has not yet been registered in the system with a probability of approx. 1.0×10^{-6}

**FRR = False Rejection Rate: The system doesn't recognise a person who has been registered in the system with a probability of 1.4×10^{-2}

Biometric systems have been used for many years in banks and high security areas. Now biometric systems are available which are also suitable for every day use, at home or at work. Today's systems scan optically, capacitively or thermally. Owing to its high security from tampering and its resistance to environmental influences, not to mention the best scanning results, we have integrated a thermal linear sensor.

Special characteristics are filtered out from the scanned image of your finger, so-called minutiae, they are stored as a biometric key and a comparison is made. The determining factor here is not the "pattern" of your fingerprint, but the temperature differences at specific points, at the "peaks" and "troughs" of your fingerprint. This means that it is not possible to manipulate the system with fingerprints taken from other surfaces. No image data is saved, just a binary code which is impossible reproduce as a fingerprint.

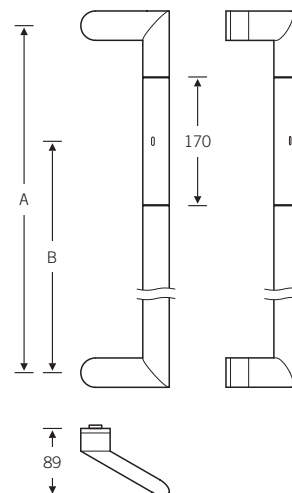


24 6538 ■



Product no.	A	Ø	B
24 6538 04524 (R)	450	38,5/20	225
24 6538 04525 (L)	450	38,5/20	225
24 6538 09924 (R)	custom	38,5/20	see below
24 6538 09925 (L)	custom	38,5/20	see below

A dimensions up to 800 mm possible
 B: min. 150 mm / max. 650 mm

Illustration: right-hand version



fsb.de/246538

24 6669 
 24 6607 

Product no.	A	Ø	B
24 6669 04523	450	30	225
24 6669 09923	custom	30	see below
24 6607 04523	450	35	225
24 6607 09923	custom	35	see below

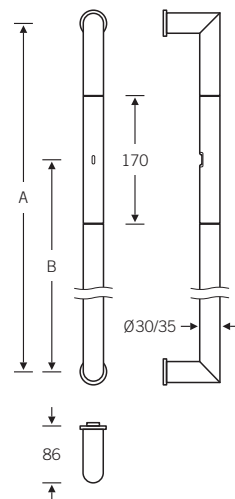
2b



24 6669
 A dimensions up to 1300 mm possible | S = 55 mm
 B: min. 150 mm / max. 1150 mm

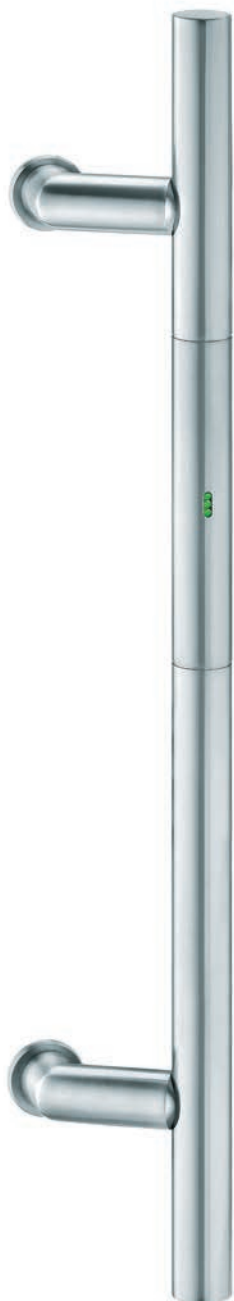
24 6607
 A dimensions up to 1500 mm possible | S = 57 mm
 B: min. 150 mm / max. 1350 mm

S | Safety spacing



fsb.de/246669
fsb.de/246607

24 6630 ■
 24 6531 ■



Product no.	A	Ø	B	L
24 6630 03024 (R)	300	30	150	500
24 6630 03025 (L)	300	30	150	500
24 6630 099.. (R)	custom	30	s. b.	custom
24 6630 099.. (L)	custom	30	s. b.	custom
24 6531 099.. (R)	at least 300	35	s. b.	at least 500
24 6531 099.. (L)	at least 300	35	s. b.	at least 500

24 6630
 for possible dimensions, see page 95

24 6531
 for possible dimensions, see page 96

When used on double doors in combination with 66 6630 or 66 6531 standard, please note the differing support dimensions.

The illustrations on the following pages will help you with the configuration.

Illustration: right-hand version

With FSB you do not get any off-the-peg pulls in the truest sense of the word. If you want an isis® F door pull that is individually matched to the dimensions of your door, FSB 24 6630 and 24 6531 are just the right choice: we produce both models exactly to your size specifications. They have a round pull cross-section as well as round supports and make lengths of over 1500 mm possible. The cranked arrangement makes these door pulls recommended for use on entrance doors with a narrow profile or on tubular frame doors.

The illustrations on the following pages will help you with the configuration.

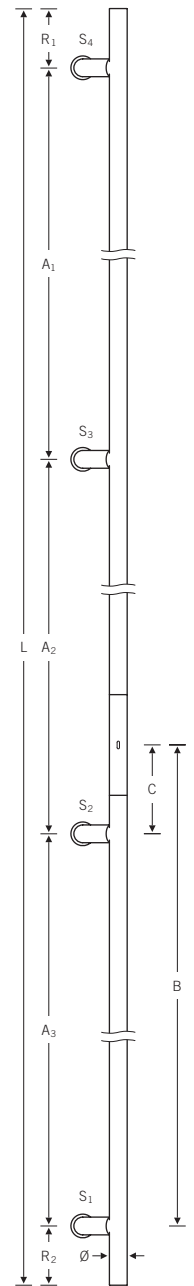
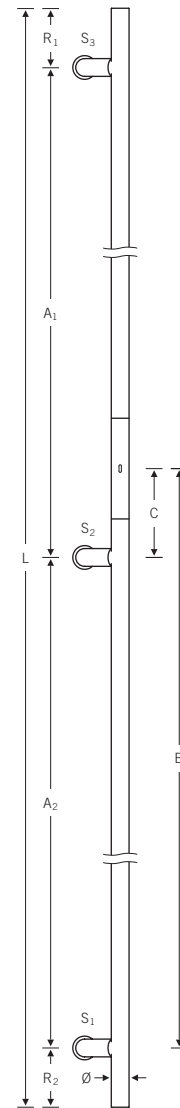
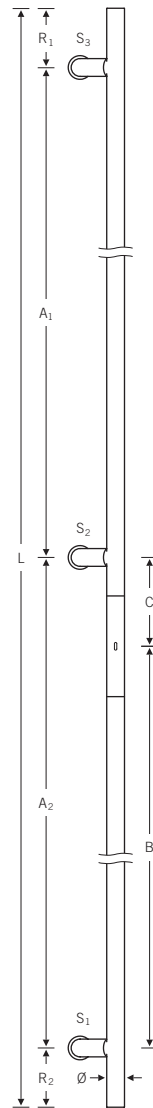
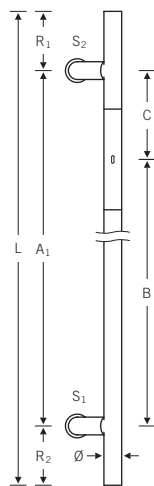
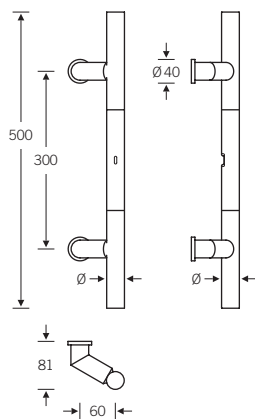
fsb.de/246630
fsb.de/246531

24 6630 ■

∅ = 30 mm

When used on double doors in combination with 66 6630 Standard please note the differing support dimensions.

2b



24 6630 03024 (R)
24 6630 03025 (L)

Scanner central

24 6630 09924 (R)
24 6630 09925 (L)

R₁ 30–350 mm
A₁ 300–1200 mm

R₂ 30–350 mm
C 150–1050 mm
B 150–1050 mm
L R₁+A₁+R₂

24 6630 09934 (R)*
24 6630 09935 (L)*

R₁ 30–350 mm
A₁ 100–1200 mm
A₂ 300–1200 mm

R₂ 30–350 mm
C 150–1050 mm
B 150–1050 mm
L R₁+A₁+A₂+R₂

24 6630 09936 (R)**
24 6630 09937 (L)**

R₁ 30–350 mm
A₁ 300–1200 mm
A₂ 100–1200 mm

R₂ 30–350 mm
C 150–1050 mm
B 250–2250 mm
L R₁+A₁+A₂+R₂

24 6630 09944 (R)
24 6630 09945 (L)

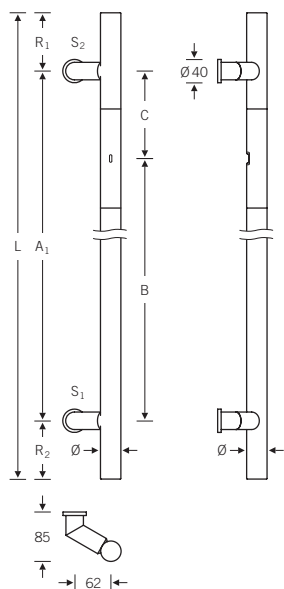
R₁ 30–350 mm
A₁ 100–1200 mm
A₂ 300–1200 mm
A₃ 100–1200 mm
R₂ 30–350 mm
C 150–1050 mm
B 250–2250 mm
L R₁+A₁+A₂+A₃+R₂

The cable outlet can be individually selected for one of the illustrated supports.
* Scanner beneath the central support, ** Scanner above the central support

24 6531 ■

Ø = 35 mm

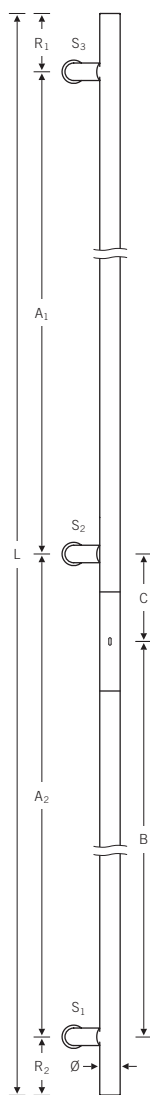
When used on double doors in combination with 66 6531 Standard please note the differing support dimensions.



24 6531 09924 (R)
24 6531 09925 (L)

R₁ 30–350 mm
A₁ 300–1200 mm

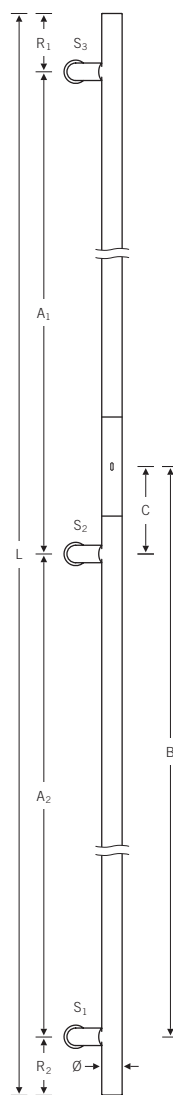
R₂ 30–350 mm
C 150–1050 mm
B 150–1050 mm
L R₁+A₁+R₂



24 6531 09934 (R)*
24 6531 09935 (L)*

R₁ 30–350 mm
A₁ 100–1200 mm
A₂ 300–1200 mm

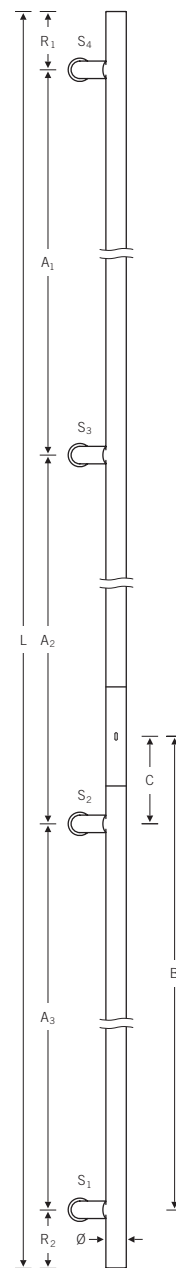
R₂ 30–350 mm
C 150–1050 mm
B 150–1050 mm
L R₁+A₁+A₂+R₂



24 6531 09936 (R)**
24 6531 09937 (L)**

R₁ 30–350 mm
A₁ 300–1200 mm
A₂ 100–1200 mm

R₂ 30–350 mm
C 150–1050 mm
B 250–2250 mm
L R₁+A₁+A₂+R₂



24 6531 09944 (R)
24 6531 09945 (L)

R₁ 30–350 mm
A₁ 100–1200 mm
A₂ 300–1200 mm
A₃ 100–1200 mm

R₂ 30–350 mm
C 150–1050 mm
B 250–2250 mm
L R₁+A₁+A₂+A₃+R₂

The cable outlet can be individually selected for one of the illustrated support.
* Scanner beneath the central support, ** Scanner above the central support



Heavy-duty fittings and accessories



Music Theatre Linz

www.landestheater-linz.at/musiktheater

Terry Pawson Architects, London

www.terrypawson.com

Architektur Consult, Graz, Vienna

www.archconsult.com

FSB 1163 range of handles,

see page 230 ff.

(Design: Hans Kollhoff)

FSB 1045 range of handles,

see page 154 ff.

AGL®-/AGL® FS heavy duty fittings for

fire and smoke doors,

see page 26 ff.

Frame door fittings for fire and smoke

doors FSB 06/09 1045,

see page 397 ff.

FSB 34 1163 and FSB 34 1015

window handles,

see page 315 ff.

FSB 34 3407 window handle locks,

see page 352

FSB 34 3470 pushpin forced locks,

see page 347

FSB 42 4250 flush pulls,

see page 366

Fittings for emergency exits FSB 77 7980,

see page 453

Bronze, lightly patinated, waxed

Stainless steel, fine matt, brushed

Fittings for emergency exits Aluminium

black matt EPS-powder coated

(special version)

www.fsb.de/music_theatre

106	Tangible architecture	3a
110	Structure of the pages for heavy-duty door handles	
112	Heavy-duty door handles and families, standard FD, AGL [®] , AGL [®] FS	

Overview

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Page 112f.



1003 ■ ■
Page 116f.



1004 ■ ■ ■
Page 118f.



1005 ■ ■
Page 122f.



1012 ■
Page 124f.



1015 ■ ■ ■
Page 126f.



1016 ■ ■ ■
Page 130f.



1020 ■ ■
Page 134f.



1021 ■ ■
Page 136f.



1023 ■ ■ ■ ■
Page 138f.



1025 ■ ■
Page 142f.



1027 ■ ■ ■
Page 144f.



1028 ■ ■
Page 146f.



1034 ■
Page 148f.



1035 ■ ■
Page 150f.



1045 ■ ■ ■
Page 154f.



1051 ■
Page 158f.



1057 ■ ■ ■
Page 160f.



1058 ■ ■
Page 162f.



1070 ■ ■
Page 164f.



1075 ■ ■
Page 168f.



1076 ■ ■ ■ ■
Page 170f.



1077 ■
Page 174f.



1078 ■ ■
Page 176f.



1093 ■ ■
Page 180f.



1102 ■ ■ ■ ■
Page 184f.



1106 ■ ■ ■ ■
Page 188f.



1107 ■ ■
Page 192f.



1108 ■ ■
Page 196f.



1111 ■
Page 200f.



1119 ■■■
Page 202f.



1126 ■
Page 206f.



1135 ■■■
Page 208f.



1144 ■■
Page 210f.



1146 ■■■
Page 214f.



1147 ■■■
Page 218f.



1159 ■■
Page 222f.



1160 ■■
Page 226f.



1163 ■■■
Page 230f.



1171 ■■
Page 234f.



1173 ■■
Page 236f.



1176 ■■
Page 238f.



1183 ■■
Page 240f.



1186 ■
Page 244f.



1191 ■
Page 248f.



1206 ■
Page 250f.



1216 ■
Page 252f.



1222 ■
Page 254f.



1230 ■
Page 258f.



XXL door handles 1052, 1117, 1090 ■
Page 626



Ergo door handles ■
Page 624





3a

FSB 1003, Design: Johannes Potente, flush version, see pages 116f. and 272

For us, door handles are artefacts, which we understand as manual tools and in terms of their semantics and symbolism are as comprehensible and universally accepted as handicraft tools. On the other hand they are digital as well as analogue mediators at the sensitive interface between people and architecture: architecture only fully opens up once you pass through your own doorway. The answer to the question, to what extent the handle may be attributed a special role as an (accentuating?) detail, however, can be left to architects and builders. Our range offers a unique abundance of shapes, materials and technical options – you decide.

Tangible architecture

After more than 130 years, FSB can look back on a truly vivid number of projects, which not only went down in architecture as trendsetting buildings – which admittedly is due not alone to the handles used – but which were in truth consciously accentuated or “only” equipped with handle designs from FSB.

We have put together a small extract of the 20th century here by way of example. We put our handle designs with some buildings simply as a suggestion, because we believe that they would admirably match the respective architecture era – particularly if you are planning to renovate buildings from that period. If you would like to know

(even) more about our vision of “Tangible architecture”, we are happy to send you our publication that goes with this subject – or you can find out without further ado under fsb.de/architectours. This is where we keep our current reference projects.



FSB 1015 | Bronze

Mülheim Town Hall | 1910

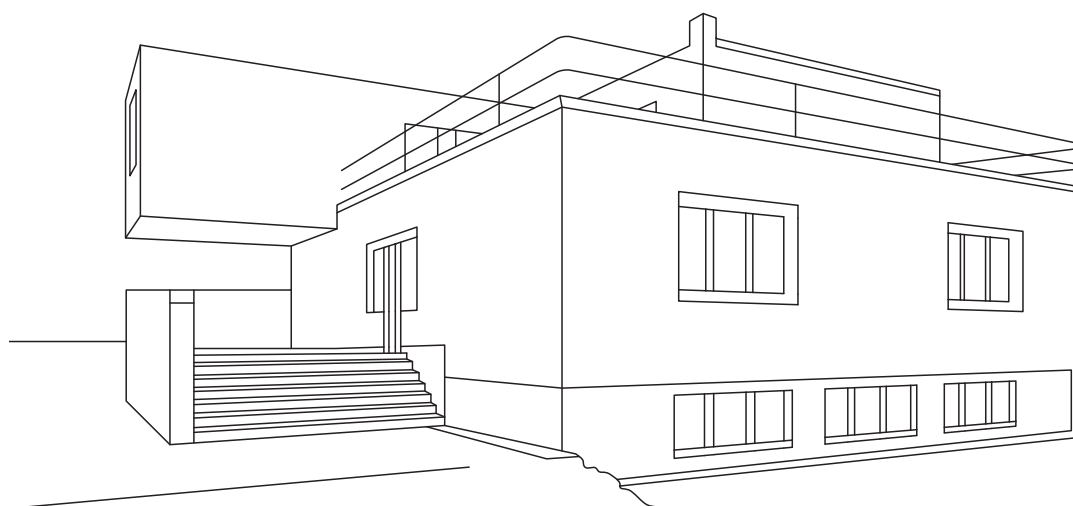
New face for the city on the Ruhr. Solid façade, magnificent tower. A part of Ruhrbania from the Neo-Renaissance period. Colossal and yet delicate. Stones, tiles, floors and ceilings come together from all over the world. Panelled, decorated, stuccoed and culminated in a clear statement.

Gropius Haus | 1920

New ideal for architectural discourse Good living for everyone. Advancing industry as a force of progress. Art and technology shake hands with each other. The whole thing has long since been world famous and protected as a UNESCO World Heritage Site.



FSB 1102 | Stainless steel





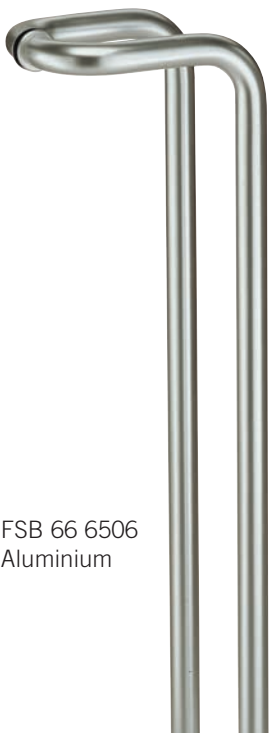
FSB 1106 | Bronze

Uncle Tom's Cabin | 1930

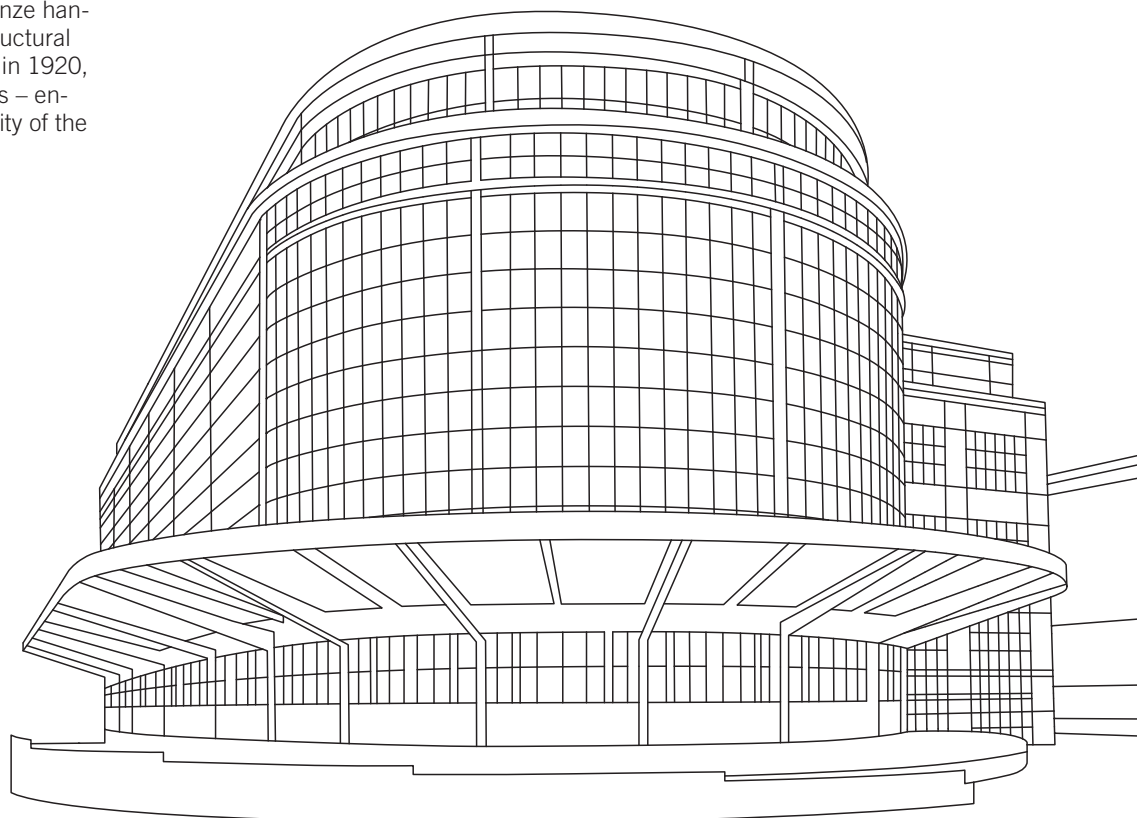
Rationalisation, use of new materials, sober interior design combined with social responsibility– that was what New Construction was about. Aesthetically rounded off by small handy details. Because “what works well, looks good” according to Bruno Taut in his day.

Perfume Factory 4711 | 1950

Curtain wall made of steel and glass, smooth and shiny materials, bronze handles: round corners are not a structural contradiction. What was around in 1920, is also well received in the 1950s – enhanced by the light floating quality of the design.

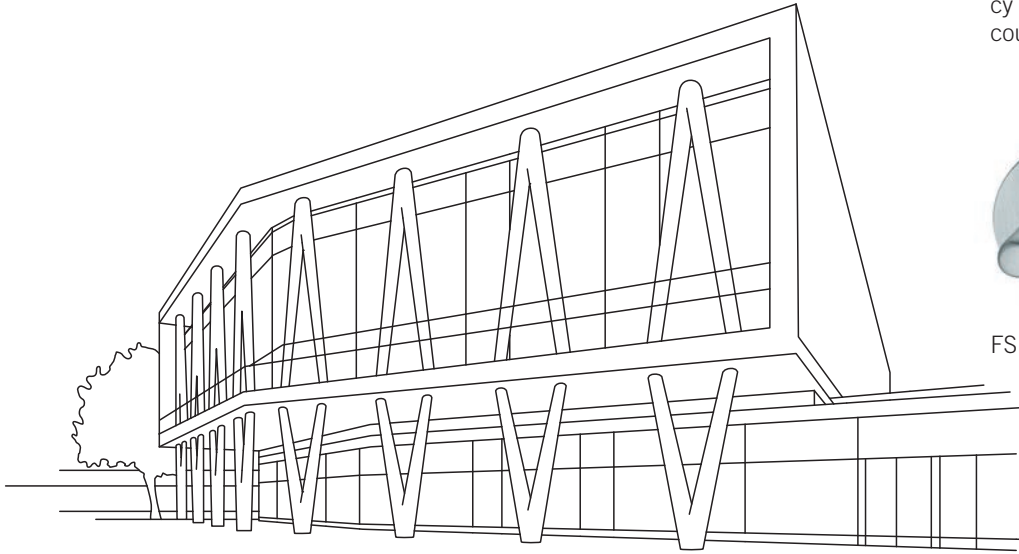


FSB 66 6506
Aluminium



Gauss School of Engineering | 1960

Aesthetics and functionality cannot be conceived independently of each other. A reinforced concrete skeleton, cubically styled, gives asymmetrical looks through large glass fronts. A pattern of transparency and lightness. Built structure as the counter-shape of social structures.



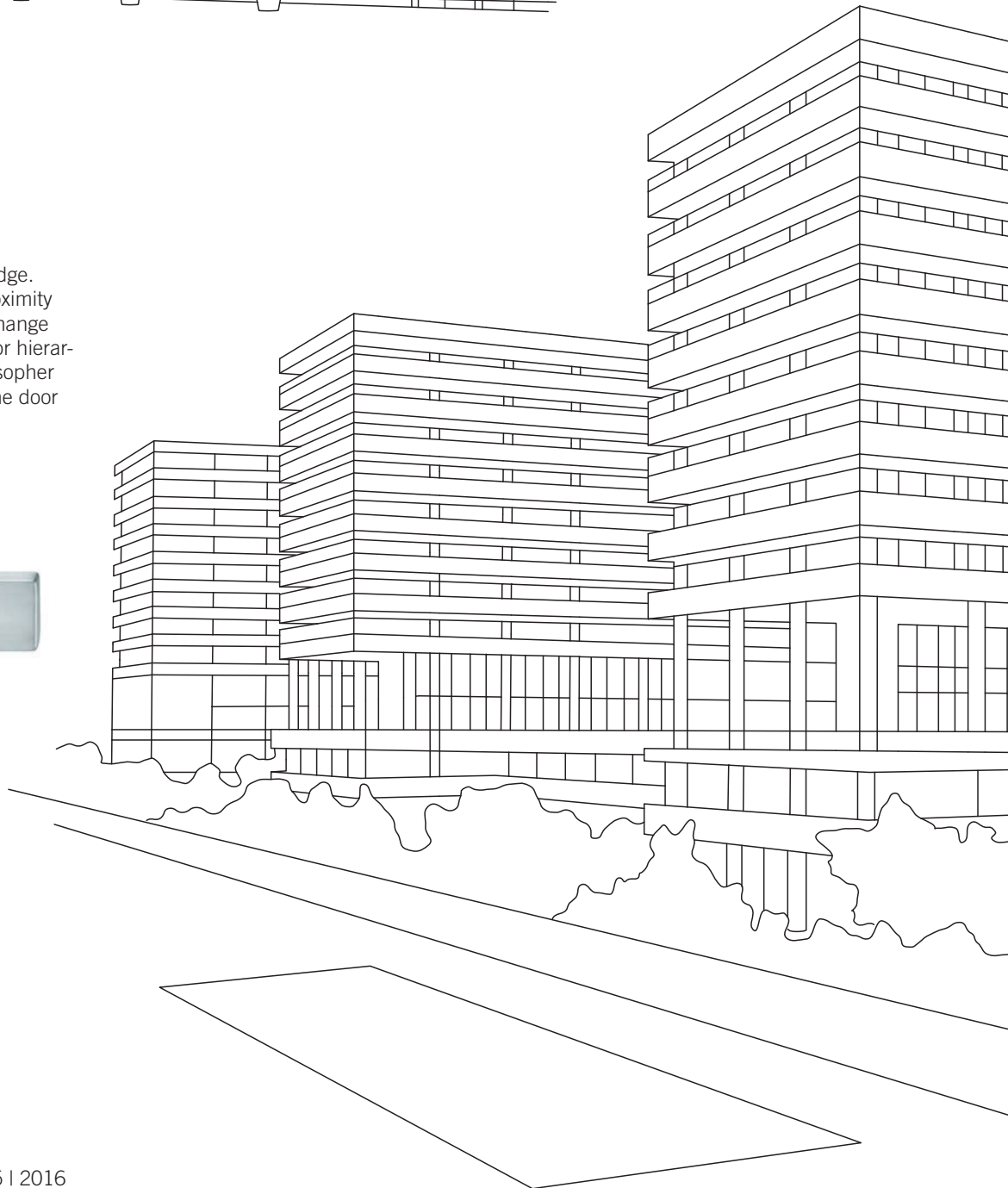
FSB 1058 | Stainless steel

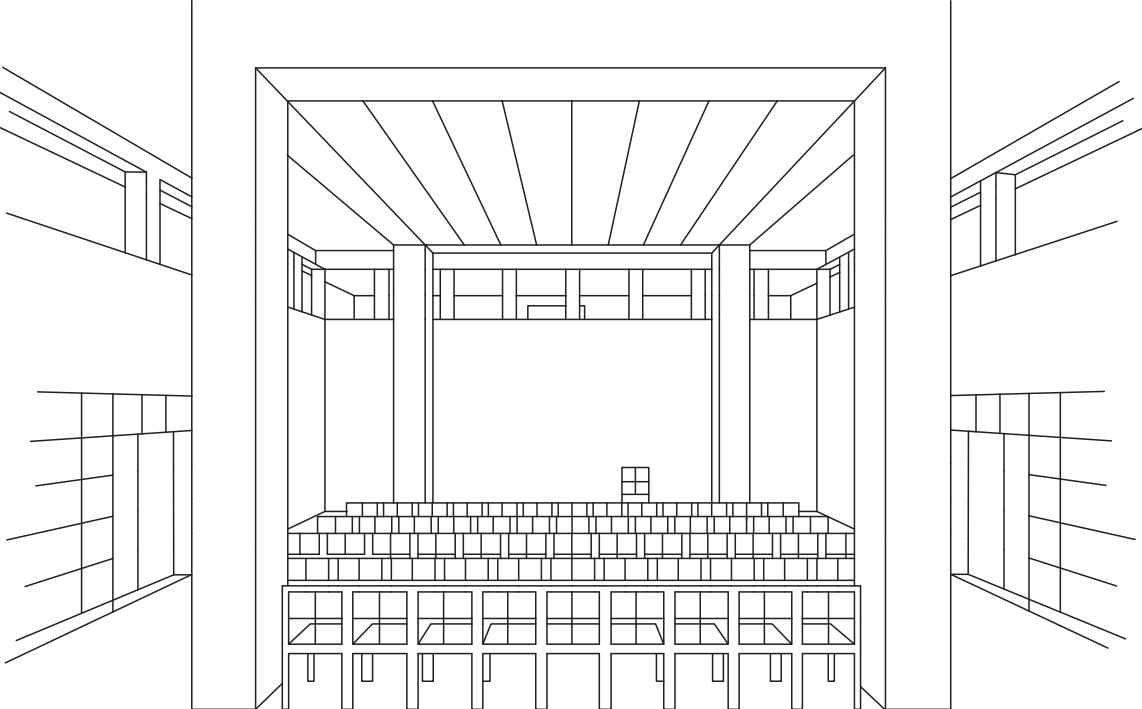
Ruhr Uni Bochum | 1970

The harbour in the sea of knowledge. Equality, the greatest possible proximity and human and professional exchange became the built agenda here. For hierarchy-free community, where philosopher and mechanical engineer open the door to one another.



FSB 1003 | Stainless steel





DAM | 1980

White reinforced concrete design in two-storey villa, house-in-house, old and new, from the baseboard to the door handle – not only the architectural end result counts here, but also the way there. Post-modern architecture as the object of the public debate.



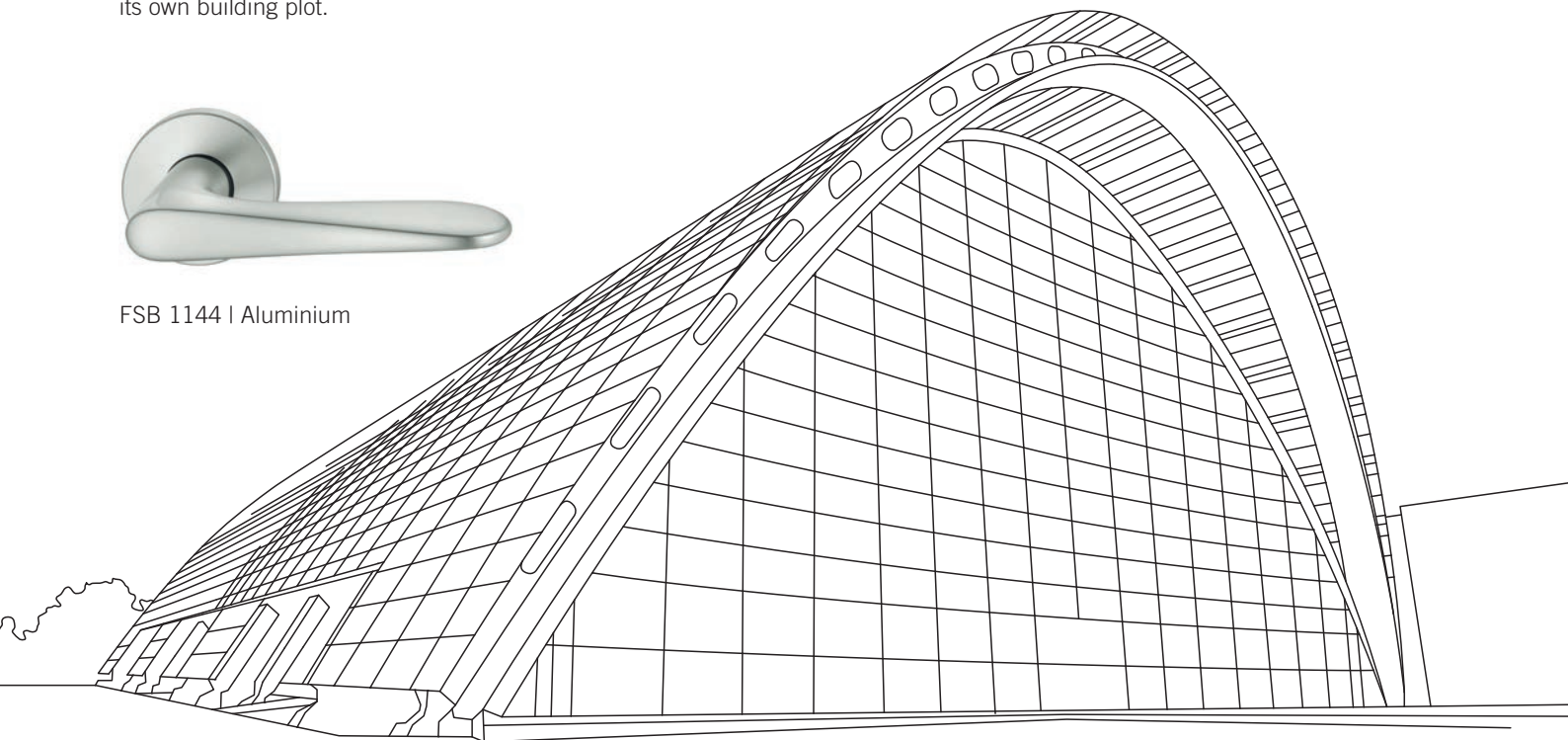
FSB 1076 | Stainless steel

Berliner Bogen | 1990

Someone has it figured out here. A casually arched steel colossus and glass giant combines futuristic looks with solutions to urgent questions of its era: hovering practically above the water, it creates its own building plot.



FSB 1144 | Aluminium



Structure of the pages for heavy-duty door handles

1 Our FSB product number concept extends beyond the handle types and follows the model numbers of the door handles. The specified link takes you straight to the digital catalogue with which, amongst other things, you can generate specific texts for calls for proposals.

For a simplified overview you will find all types of fitting immediately after the range of handles concerned, on the following pages. They contain all of the versions relevant for planning, including their product numbers.

2 The roses and backplates illustrated here in combination with the door handles concerned are available as part of the standard product range, different designs on request.

3 This is an overview of the individual qualities of heavy-duty bearings for the range of handles concerned:

↻ FSB AGL® (72) compensating bearing Heavy-duty fitting for medium to heavy doors and doors subject to heavy traffic

↻ AGL® FS (76) compensating bearing Heavy-duty fitting in fire safety version to DIN 18 273 / EN 1634

↻ AGL® FS (79) compensating bearing Heavy-duty fitting for emergency exit locks in fire safety version to EN 179

↻ FD (10) standard fitting with turnably fixed standard bearing for lightweight doors and doors which are not so frequently used

For more information about the FSB bearings, please see page 26 f.

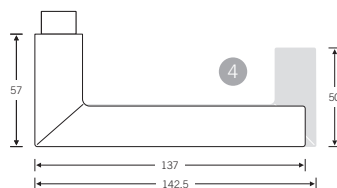
Note: Please also note the specifications for the bearing versions for the fitting types on the following two pages which are specific to certain components.

- Standard product range
- Possible on request

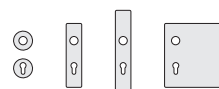
fsb.de/1076

1 5

The architect Robert Mallet-Stevens (1886 – 1945) was the one who hit upon the idea of cutting a round tube in two and mitring the ends together again at a right angle. His creation is today known as the "Frankfurt model". The handle was rediscovered when the Architecture Museum was rebuilt and proceeded to take the market by storm.



2 Recommended rose and backplate variants



4

EN 179

4

↻ EN 179 model: FSB 1016 | Page 130

Wide back-plate fittings in bronze on request

* with restrictions depending on design
** isis® systems not in bronze and brass

3



surface mount	●	●	●	●
flush mount*	●	●	●	
isis® systems**	●	●	●	

170

FSB Manual 2015 | 2016

Glass door fitting



Standard	•
isis® systems	•

13 4224 with 10 1076 | Page 368f.
Glass door fittings not in bronze and brass

Frame door handles



Standard	•	•	•
isis® systems	•	•	•

09 1076 (straight) | Page 417
06 1076 (offset) | Page 416
06 1076 not in bronze and brass

Door knobs



Solid doors	•	•	•
Frame doors	•	•	

23 0829 (for solid doors) | Page 307
07 0809 (for frame doors) | Page 431

Window handles



Standard, RAL	•
Rose, low profile	•
Lockable	•

34 1076 | Page 330
34 3403 | Page 343
34 3403 not in bronze and brass

6 Additional items for the handle system:

Fittings lifting/sliding doors 34 1016 012.. | Page 354f.
Lifting/sliding door fitting 34 1016 011.. | Page 357f.
Door pull 66 6514 | Page 499
Door pull 66 6669 | Page 519
Barrier-free fitting 14 424. | Page 627

Additional items for large buildings:

isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

fsb.de/digitalerkatalog

171

4

FSB offers the most extensive range of fittings to DIN EN 179. These so-called “return models” are shown with a number 79 as well as with their specific model number. For the classic (straight) models, in the dimensioned drawings, the “return” models are marked in grey but are to be understood as formal variants. This formal aspect applies both for the EN 179 dimensional specifications prescribed by building regulations as well as for the characteristic style of the architect or designer concerned. FSB includes the following door handle “return” models in its product range as independent designs:

- 1016 (to 1076) | Page 130f.
- 1045 (to 1015) | Page 154f.
- 1070 (to 1075) | Page 1464f.
- 1119 | Page 202f.
- 1146 (to 1147) | Page 214f.
- 1159 | Page 222f.
- 1160 | Page 226f.

The component-related versions to EN 179 are actually shown in the individual overviews of the handle ranges.

5

The FSB material ID – it shows the materials in which versions are available. There are restrictions e.g. with the isis® system and glass door fittings.

- Aluminium
- Stainless steel
- Brass
- Bronze

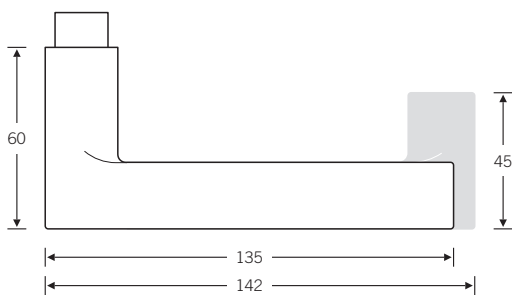
6

In some cases, a lot of additional items for the handle systems are shown, which clearly exceed the versions which can be shown on a double page spread of door handles.

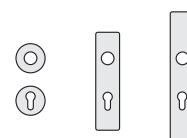
3a

3a

Architect Peter Bastian wanted his handle to be a graceful presence on tall, large doors as well as representing an almost doctrinaire reduction of the geometry. The result is a very accurately made door handle with a square cross-section that fits comfortably into your hand.



Recommended rose and backplate variants



EN 179

Design: Peter Bastian

EN 179 model: FSB 1002

Only available in natural anodised finish (FSB 0105).

Wide backplate fittings on request

* with restrictions depending on design

surface mount	●	●	●	●
flush mount*	●	●	●	●
isis® systems	○	○	○	

Glass door fitting



Standard	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>

13 4224 with 10 1001 | Page 468f.

Frame door handles



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

09 1002 (straight) | Page 409
06 1002 (offset) | Page 408

Door knobs



Solid doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Frame doors		<input checked="" type="radio"/>	<input checked="" type="radio"/>

23 0829 (for solid doors) | Page 307
07 0809 (for frame doors) | Page 431

Window handle



Standard, RAL	<input checked="" type="radio"/>
Rose, low profile	<input checked="" type="radio"/>
Lockable	<input checked="" type="radio"/>

34 1001 | Page 324

Additional items for the handle system:

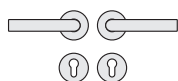
Barrier-free fitting 14 424. | Page 627

Additional items for large buildings:

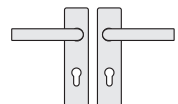
isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

Product family 1001 ■

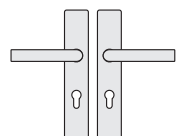
Door handle fittings



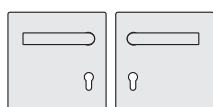
- 72 1001 613 (R)
- 76 1001 613 (R)
- 79 1002 613 (R)
- 10 1001 | 17 1731 018 | 17 1735
- 72 1001 614 (L)
- 76 1001 614 (L)
- 79 1002 614 (L)



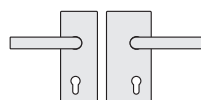
- 72 1001 601 (R)
- 76 1001 601 (R)
- 79 1002 601 (R)
- 10 1001 | 14 1450 018
- 72 1001 602 (L)
- 76 1001 602 (L)
- 79 1002 602 (L)



- 72 1001 621 (R)
- 76 1001 621 (R)
- 79 1002 621 (R)
- 10 1001 | 14 1410 018
- 72 1001 622 (L)
- 76 1001 622 (L)
- 79 1002 622 (L)

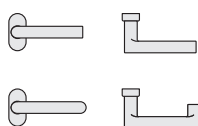


- 10 1001 | 14 1488 003

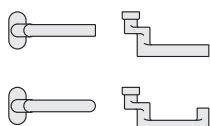


- 13 4224 042 (R)
with 10 1001 00300
- 13 4224 052 (L)
with 10 1001 00300

Frame door handles



- 09 1001 011
- 09 1001 012
- 09 1002 011
- 09 1002 012



- 06 1001 011
- 06 1001 012
- 06 1002 011
- 06 1002 012
- 06 1001 023 (ldf)
- 06 1002 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
- 07 0829 428 (fixed)



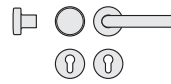
- 07 0809 228 (fixed)
- 07 0809 428 (fixed)



- 17 1757

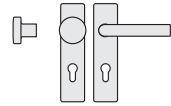
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Entrance door fittings



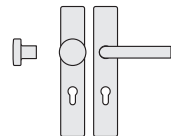
- 72 1001 617 (R)
- 76 1001 617 (R)
- 76 1001 619 (ldf)
- 79 1002 617 (R)
- 79 1002 619 (ldf)
- 10 1001 | 17 1731 019 | 17 1735 | 23 0829 0006

- 72 1001 618 (L)
- 76 1001 618 (L)
- 79 1002 618 (L)



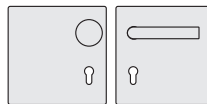
- 72 1001 603 (R)
- 76 1001 603 (R)
- 76 1001 605 (ldf)
- 79 1002 603 (R)
- 79 1002 605 (ldf)
- 10 1001 | 14 1450 018 | 19 1963 003

- 72 1001 604 (L)
- 76 1001 604 (L)
- 79 1002 604 (L)



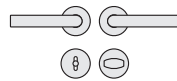
- 72 1001 623 (R)
- 76 1001 623 (R)
- 76 1001 625 (ldf)
- 79 1002 623 (R)
- 79 1002 625 (ldf)
- 10 1001 | 14 1410 018 | 19 1970 003

- 72 1001 624 (L)
- 76 1001 624 (L)
- 79 1002 624 (L)



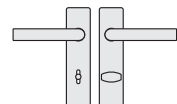
- 10 1001 | 14 1488 0.. | 19 1994 0..

WC fittings



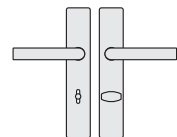
- 72 1001 619 (R)
- 10 1001 | 17 1731 018 | 17 1735 00054

- 72 1001 620 (L)



- 72 1001 605 (R)
- 10 1001 | 14 1450 01854

- 72 1001 606 (L)



- 72 1001 625 (R)
- 10 1001 | 14 1410 01854

- 72 1001 626 (L)



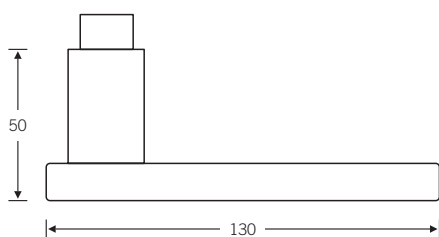
- 10 1001 | 14 1488 0..54

Window handles

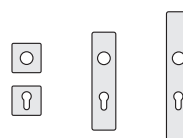


- 34 1001 008 (heavy-duty version)
- 34 1001 007 (low-profile rose)
- 34 1001 170 (locking adapter)
- 34 1001 076 (ditto with pushbutton)

The FSB 1003 door handle, which takes the shape of a slim door, is a model for real aficionados. Johannes Potente took up the design concept and implemented it in aluminium and stainless steel.



Recommended rose and backplate variants



Design: Johannes Potente

In aluminium only available in natural anodised finish (FSB 0105)

* with restrictions depending on design

Door pull 66 6548 | Page 514

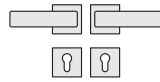
surface mount



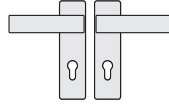
flush mount*



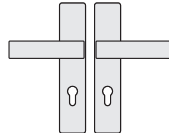
Door handle fittings



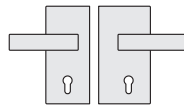
➤ 10 1003 | 17 1703 018 | 17 1704



➤ 10 1003 | 14 1450 018



➤ 10 1003 | 14 1410 018

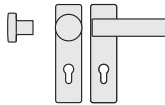


➤ 13 4220 041 (R) with 10 1003 00100 ➤ 13 4220 051 (L) with 10 1003 00100

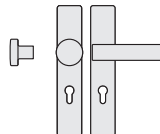
Entrance door fittings



➤ 10 1003 | 17 1703 019 | 17 1704 | 23 0811 00026

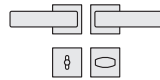


➤ 10 1003 | 14 1450 018 | 19 1963 003

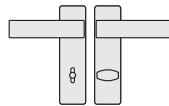


➤ 10 1003 | 14 1410 018 | 19 1970 003

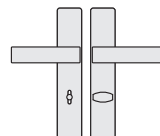
WC fittings



➤ 10 1003 | 17 1703 018 | 17 1704 00054



➤ 10 1003 | 14 1450 01854



➤ 10 1003 | 14 1410 01854

Window handles



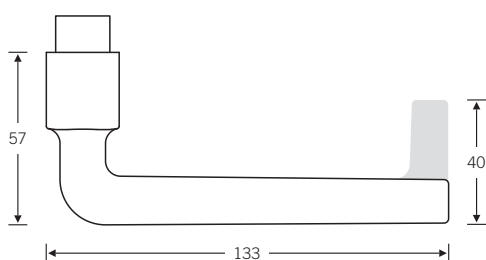
34 1003 068 (heavy-duty version)
 34 1003 067 (low-profile rose)
 34 1003 170 (locking adapter)
 34 1003 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

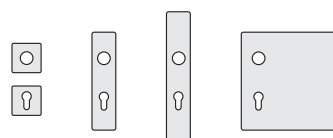
34 1003 | Page 324

3a

David Chipperfield's design for the FSB 1004 bears the hallmark of the pioneers of modernism. It is based on a clear formal concept which meets all of the functional requirements while giving expression to his formal idea in both public and private spheres.



Recommended rose and backplate variants



EN 179

Design: David Chipperfield

 EN 179 model: FSB 1134

In aluminium only available in natural anodised finish (FSB 0105)

Wide back-plate fittings in bronze on request

** with restrictions depending on design

** only with a round rose

surface mount



flush mount*



isis® systems**



Glass door fitting



Standard	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>

13 4224 with 10 1004 | Page 468f.

Glass door fittings not in bronze

Frame door handles



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

09 1134 (straight) | Page 421

06 1134 (offset) | Page 420

Door knobs



Solid doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Frame doors		<input checked="" type="radio"/>	<input checked="" type="radio"/>

23 0811 (for solid doors) | Page 305

07 0812 (for frame doors) | Page 430

Window handle



Standard, RAL	<input checked="" type="radio"/>
Rose, low profile	<input checked="" type="radio"/>
Lockable	<input checked="" type="radio"/>

34 1004 | Page 325

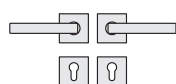
Additional items for the handle system:








Lifting/sliding door fitting 34 1004 011.. | Page 356f.
Barrier-free fitting 14 424. | Page 627

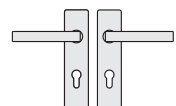
Additional items for large buildings:

isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

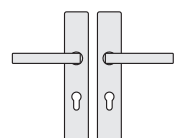
Door handle fittings










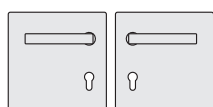
-  72 1004 641 (R)
-  76 1004 639 (R)
-  79 1134 639 (R)
-  10 1004 | 17 1703 018 | 17 1704
-  72 1004 642 (L)
-  76 1004 640 (L)
-  79 1134 640 (L)



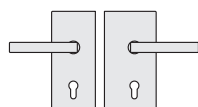
-  72 1004 601 (R)
-  76 1004 601 (R)
-  79 1134 601 (R)
-  10 1004 | 14 1450 018
-  72 1004 602 (L)
-  76 1004 602 (L)
-  79 1134 602 (L)





-  72 1004 621 (R)
-  76 1004 621 (R)
-  79 1134 621 (R)
-  10 1004 | 14 1410 018
-  72 1004 622 (L)
-  76 1004 622 (L)
-  79 1134 622 (L)

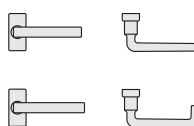





-  72 1004 033 (R)
-  76 1004 033 (R)
-  79 1134 033 (R)
-  10 1004 | 14 1488 003
-  72 1004 034 (L)
-  76 1004 034 (L)
-  79 1134 034 (L)

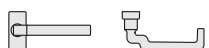


-  13 4224 042 (R) with 10 1004 00300
-  13 4224 052 (L) with 10 1004 00300

Frame door handles





-  09 1004 071
-  09 1004 072
-  09 1134 072





-  06 1134 071
-  06 1134 072
-  06 1134 073 (ldf)

Frame door knobs



- 07 0811 229 (fixed)
-  07 0811 229 (fixed, stainless steel & bronze)
-  07 0811 429 (fixed, aluminium)



- 07 0812 229 (fixed)
-  07 0812 229 (fixed, stainless steel & bronze)
-  07 0812 429 (fixed, aluminium)

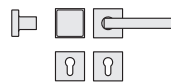


- 17 1778

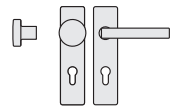
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Glass door fittings not in bronze
Wide back-plate fittings in bronze on request

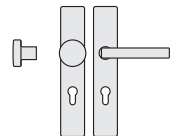
Entrance door fittings



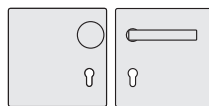
- 72 1004 643 (R)
- 76 1004 641 (R)
- 76 1004 643 (ldf)
- 79 1134 641 (R)
- 79 1134 643 (ldf)
- 10 1004 | 17 1703 019 | 17 1704 | 23 0811 00026
- 72 1004 644 (L)
- 76 1004 642 (L)
- 79 1134 642 (L)



- 72 1004 603 (R)
- 76 1004 603 (R)
- 76 1004 605 (ldf)
- 79 1134 603 (R)
- 79 1134 605 (ldf)
- 10 1004 | 14 1450 018 | 19 1963 003
- 72 1004 604 (L)
- 76 1004 604 (L)
- 79 1134 604 (L)

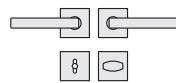


- 72 1004 623 (R)
- 76 1004 623 (R)
- 76 1004 625 (ldf)
- 79 1134 623 (R)
- 79 1134 625 (ldf)
- 10 1004 | 14 1410 018 | 19 1970 003
- 72 1004 624 (L)
- 76 1004 624 (L)
- 79 1134 624 (L)

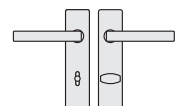


- 72 1004 037 (R)
- 76 1004 037 (R)
- 79 1134 037 (R)
- 10 1004 | 14 1488 0.. | 19 1994 0..
- 72 1004 038 (L)
- 76 1004 038 (L)
- 79 1134 038 (L)

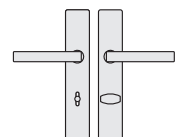
WC fittings



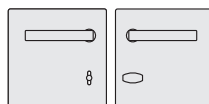
- 72 1004 645 (R)
- 10 1004 | 17 1703 018 | 17 1704 00054
- 72 1004 646 (L)



- 72 1004 605 (R)
- 10 1004 | 14 1450 01854
- 72 1004 606 (L)



- 72 1004 625 (R)
- 10 1004 | 14 1410 01854
- 72 1004 626 (L)



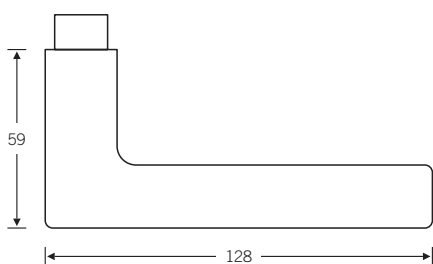
- 72 1004 039 (R)
- 10 1004 | 14 1488 0..54
- 72 1004 040 (L)

Window handles

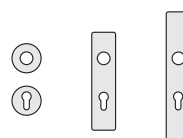


- 34 1004 068 (heavy-duty version)
- 34 1004 067 (low-profile rose)
- 34 1004 170 (locking adapter)
- 34 1004 076 (ditto with pushbutton)

There are a lot of wedge-shaped door handles. Almost every manufacturer offers its own version of this basic shape. The original design for this door handle was most probably produced by Professor Max Burchartz. The FSB 1005 version by Johannes Potente is characterised by its slender proportions.



Recommended rose and backplate variants

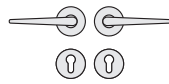


* with restrictions depending on design

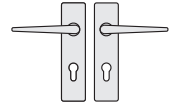
surface mount

flush mount*

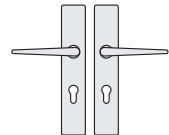
Door handle fittings



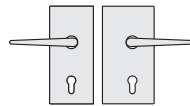
10 1005 | 17 1731 018 | 17 1735



10 1005 | 14 1450 018

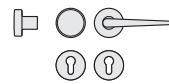


10 1005 | 14 1410 018

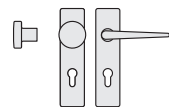


13 4220 041 (R) with 10 1005 00100 13 4220 051 (L) with 10 1005 00100

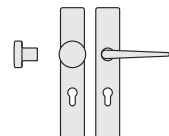
Entrance door fittings



10 1005 | 17 1731 019 | 17 1735 | 23 0829 00006

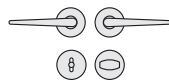


10 1005 | 14 1450 018 | 19 1963 003

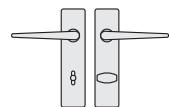


10 1005 | 14 1410 018 | 19 1970 003

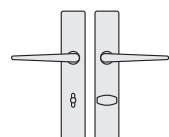
WC fittings



10 1005 | 17 1731 018 | 17 1735 00054



10 1005 | 14 1450 01854



10 1005 | 14 1410 01854

Window handles



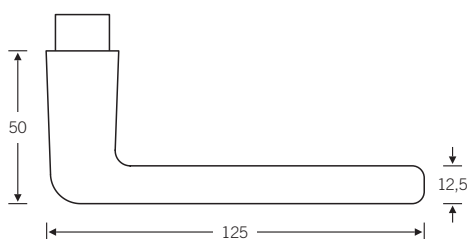
34 1005 008 (heavy-duty version)
 34 1005 007 (low-profile rose)
 34 1005 170 (locking adapter)
 34 1005 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

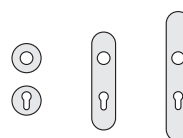
34 1005 | Page 325

3a

The creation of the extreme oval shape featured on the 1012 is credited to Hans Poelzig during the course of the construction of the I. G. Farben administration building in 1928, after which it was promoted to "Reich shaped handle No. 16". A wide band made of solid white bronze, cast into a rectangular shape. FSB also moved to an aluminium model back in the 1930s.



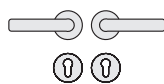
Recommended rose and backplate variants



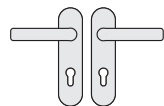
surface mount ●

flush mount ●

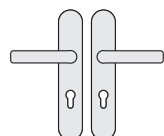
Door handle fittings



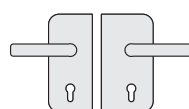
10 1012 | 17 1731 018 | 17 1735



10 1012 | 14 1451 018



10 1012 | 14 1418 018



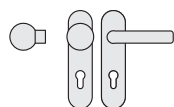
13 4223 041 (R) with
10 1012 00100

13 4223 051 (L) with
10 1012 00100

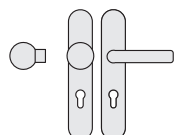
Entrance door fittings



10 1012 | 17 1731 019 | 17 1735 | 23 0802 00006

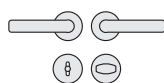


10 1012 | 14 1451 018 | 19 1964 003

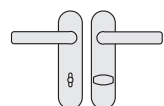


10 1012 | 14 1418 018 | 19 1927 003

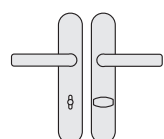
WC fittings



10 1012 | 17 1731 018 | 17 1735 00054

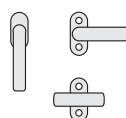


10 1012 | 14 1451 01854



10 1012 | 14 1418 01854

Window handles

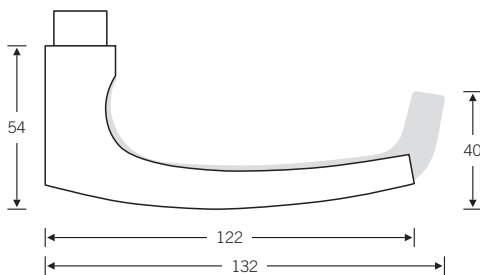


34 1012 008 (heavy-duty version)
34 1012 007 (low-profile rose)
34 1012 170 (locking adapter)
34 1012 076 (ditto with pushbutton)
34 3401 (cross fastener) | 34 3402 (half fastener)
34 1012 or 34 3401/3402 | Page 326 or 342

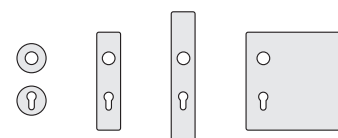
R = DIN right hand
L = DIN left hand

3a

We presume that the basic shape of our FSB 1015 model was conceived in the 1930s by a company called wehag. This version by Johannes Potente has a very clear handle shape which creates a lot of interest, especially in the Netherlands.



Recommended rose and backplate variants



EN 179

 EN 179 model: FSB 1045 | Page 154

Wide back-plate fittings in bronze on request

* with restrictions depending on design

surface mount	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
flush mount*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
isis® systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Glass door fitting



Standard	●	●
isis® systems		●

13 4220 with 72 1015 | Page 470f.

Glass door fittings not in bronze

Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1015 (straight) | Page 409

06 1015 (offset) | Page 408

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0829 (for solid doors) | Page 307

07 0809 (for frame doors) | Page 431

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1015 | Page 326

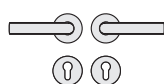
Additional items for the handle system:








Barrier-free fitting 14 424. | Page 627

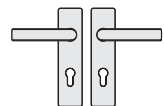
Additional items for large buildings:

isis® access management | Page 43f.
 SSF tubular frame locks with through screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.

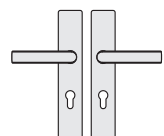
Door handle fittings










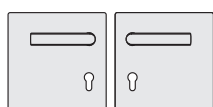
-  72 1015 613 (R)
-  72 1015 614 (L)
-  76 1015 613 (R)
-  76 1015 614 (L)
-  79 1045 613 (R)
-  79 1045 614 (L)
-  10 1015 | 17 1731 018 | 17 1735



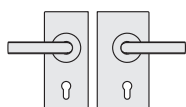
-  72 1015 601 (R)
-  72 1015 602 (L)
-  76 1015 601 (R)
-  76 1015 602 (L)
-  79 1045 601 (R)
-  79 1045 602 (L)
-  10 1015 | 14 1450 018











-  72 1015 621 (R)
-  72 1015 622 (L)
-  76 1015 621 (R)
-  76 1015 622 (L)
-  79 1045 621 (R)
-  79 1045 622 (L)
-  10 1015 | 14 1410 018

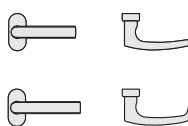






-  72 1015 033 (R)
-  72 1015 034 (L)
-  76 1015 033 (R)
-  76 1015 034 (L)
-  79 1045 033 (R)
-  79 1045 034 (L)
-  10 1015 | 14 1488 003

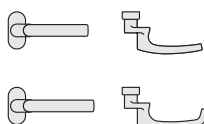


-  13 4220 042 (R) with
-  72 1015 61350 (R)
-  13 4220 041 (R) with
-  10 1015 00100
-  13 4220 052 (L) with
-  72 1015 61450 (L)
-  13 4220 051 (L) with
-  10 1015 00100

Frame door handles





-  09 1015 011
-  09 1015 012
-  09 1045 011
-  09 1045 012





-  06 1015 011
-  06 1015 012
-  06 1015 023 (ldf)
-  06 1045 011
-  06 1045 012
-  06 1045 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
-  07 0829 228 (fixed, stainless steel & bronze)
-  07 0829 428 (fixed, aluminium)



- 07 0809 228 (fixed)
-  07 0809 228 (fixed, stainless steel & bronze)
-  07 0809 428 (fixed, aluminium)



17 1757

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

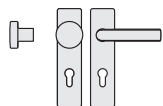
Glass door fittings not in bronze
Wide back-plate fittings in bronze on request

Entrance door fittings



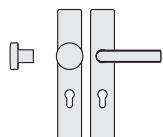
- 72 1015 617 (R)
- 76 1015 617 (R)
- 76 1015 619 (ldf)
- 79 1045 617 (R)
- 79 1045 619 (ldf)
- 10 1015 | 17 1731 019 | 17 1735 | 23 0829 0006

- 72 1015 618 (L)
- 76 1015 618 (L)
- 79 1045 618 (L)



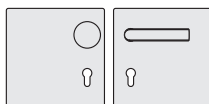
- 72 1015 603 (R)
- 76 1015 603 (R)
- 76 1015 605 (ldf)
- 79 1045 603 (R)
- 79 1045 605 (ldf)
- 10 1015 | 14 1450 018 | 19 1963 003

- 72 1015 604 (L)
- 76 1015 604 (L)
- 79 1045 604 (L)



- 72 1015 623 (R)
- 76 1015 623 (R)
- 76 1015 625 (ldf)
- 79 1045 623 (R)
- 79 1045 625 (ldf)
- 10 1015 | 14 1410 018 | 19 1970 003

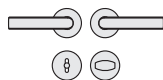
- 72 1015 624 (L)
- 76 1015 624 (L)
- 79 1045 624 (L)



- 72 1015 037 (R)
- 76 1015 037 (R)
- 79 1045 037 (R)
- 10 1015 | 14 1488 0.. | 19 1994 0..

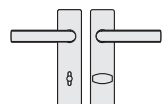
- 72 1015 038 (L)
- 76 1015 038 (L)
- 79 1045 038 (L)

WC fittings



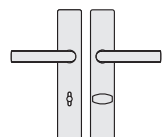
- 72 1015 619 (R)
- 10 1015 | 17 1731 018 | 17 1735 00054

- 72 1015 620 (L)



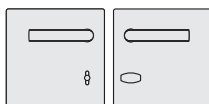
- 72 1015 605 (R)
- 10 1015 | 14 1450 01854

- 72 1015 606 (L)



- 72 1015 625 (R)
- 10 1015 | 14 1410 01854

- 72 1015 626 (L)



- 72 1015 039 (R)
- 10 1015 | 14 1488 0..54

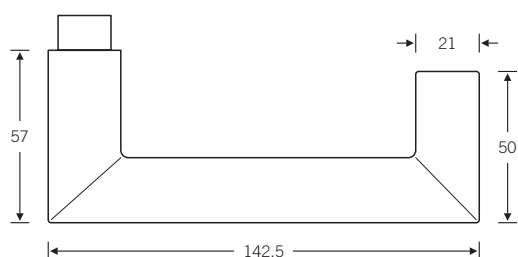
- 72 1015 040 (L)

Window handles

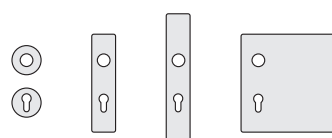


- 34 1015 008 (heavy-duty version)
- 34 1015 007 (low-profile rose)
- 34 1015 170 (locking adapter)
- 34 1015 076 (ditto with pushbutton)

In 1990, FSB introduced a door handle to the market which originated in the 1920s. The FSB 1076 model has since become the most-copied door handle of the last century. The version shown here, FSB 1016, is a more closed-off counterpart to it.



Recommended rose and backplate variants



EN 179

Wide back-plate fittings in bronze on request

* with restrictions depending on design
 ** isis® systems not in bronze

surface mount	●	●	●
flush mount*	●		
isis® systems**		●	●

Glass door fitting



Standard	●	●
isis® systems		●

13 4220 with 72 1016 | Page 470f.

Glass door fittings not in bronze

Frame door handles

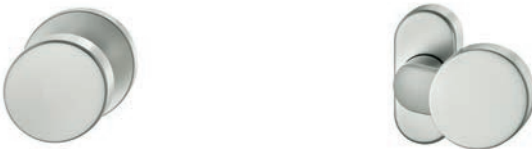


Standard	●	●
isis® systems	●	●

09 1016 (straight) | Page 411

06 1016 (offset) | Page 410

Door knobs



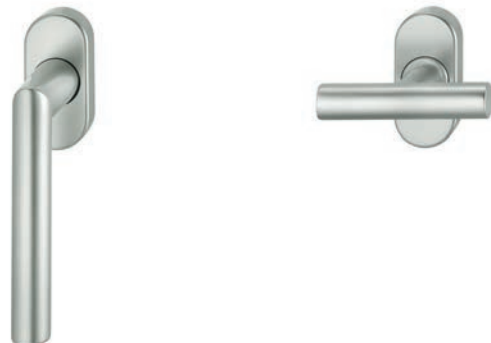
Solid doors ● ● ●

Frame doors ● ●

23 0829 (for solid doors) | Page 307

07 0809 (for frame doors) | Page 431

Window handles



Standard, RAL ●

Rose, low profile ●

Lockable ●

34 1076 | Page 330

34 3403 | Page 343

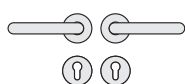
Additional items for the handle system:


Parallel sliding tilt fitting 34 1016 012.. | Page 354f.
 Lifting/sliding door fitting 34 1016 011.. | Page 357f.
 Door pull 66 6514 | Page 499
 Door pull 66 6669 | Page 519
 Barrier-free fitting 14 424. | Page 627

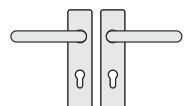
Additional items for large buildings:






isis® access management | Page 43f.
 SSF tubular frame locks with through screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.

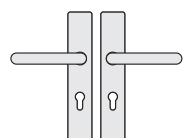
Door handle fittings



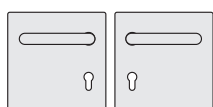
-  72 1016 613 (R)
-  72 1016 614 (L)
-  79 1016 613 (R)
-  79 1016 614 (L)
-  10 1016 | 17 1731 018 | 17 1735








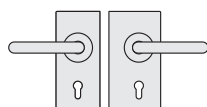
-  72 1016 601 (R)
-  72 1016 602 (L)
-  79 1016 601 (R)
-  79 1016 602 (L)
-  10 1016 | 14 1450 018







-  72 1016 621 (R)
-  72 1016 622 (L)
-  79 1016 621 (R)
-  79 1016 622 (L)
-  10 1016 | 14 1410 018





-  72 1016 033 (R)
-  72 1016 034 (L)
-  79 1016 033 (R)
-  79 1016 034 (L)
-  10 1016 | 14 1488 003




-  13 4220 042 (R) with 72 1016 61350 (R)
-  13 4220 052 (L) with 72 1016 61450 (L)
-  13 4220 041 (R) with 10 1016 00100
-  13 4220 051 (L) with 10 1016 00100

Frame door handles





-  09 1016 011
-  09 1016 012





-  06 1016 011
-  06 1016 012
-  06 1016 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
-  07 0829 228 (fixed, stainless steel & bronze)
-  07 0829 428 (fixed, aluminium)



- 07 0809 228 (fixed)
-  07 0809 228 (fixed, stainless steel & bronze)
-  07 0809 428 (fixed, aluminium)

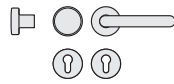


- 17 1757

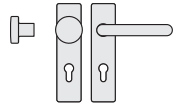
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Glass door fittings not in bronze
Wide back-plate fittings in bronze on request

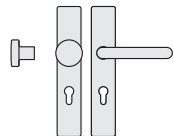
Entrance door fittings



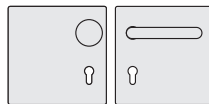
- 72 1016 617 (R) 72 1016 618 (L)
- 79 1016 617 (R) 79 1016 618 (L)
- 79 1016 619 (ldf)
- 10 1016 | 17 1731 019 | 17 1735 | 23 0829 00006



- 72 1016 603 (R) 72 1016 604 (L)
- 79 1016 603 (R) 79 1016 604 (L)
- 79 1016 605 (ldf)
- 10 1016 | 14 1450 018 | 19 1963 003

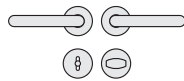


- 72 1016 623 (R) 72 1016 624 (L)
- 79 1016 623 (R) 79 1016 624 (L)
- 79 1016 625 (ldf)
- 10 1016 | 14 1410 018 | 19 1970 003

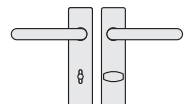


- 72 1016 037 (R) 72 1016 038 (L)
- 79 1016 037 (R) 79 1016 038 (L)
- 10 1016 | 14 1488 0.. | 19 1994 0..

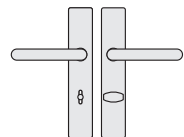
WC fittings



- 72 1016 619 (R) 72 1016 620 (L)
- 10 1016 | 17 1731 018 | 17 1735 00054



- 72 1016 605 (R) 72 1016 606 (L)
- 10 1016 | 14 1450 01854



- 72 1016 625 (R) 72 1016 626 (L)
- 10 1016 | 14 1410 01854



- 72 1016 039 (R) 72 1016 040 (L)
- 10 1016 | 14 1488 0..54

Window handles

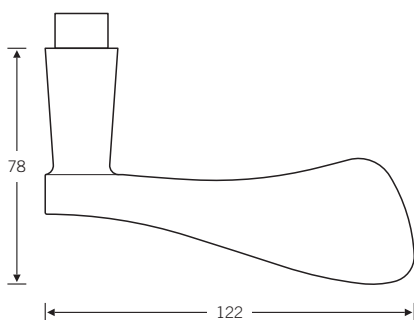


- 34 1076 008 (heavy-duty version)
- 34 1076 007 (low-profile rose)
- 34 1076 170 (locking adapter)
- 34 1076 076 (ditto with pushbutton)

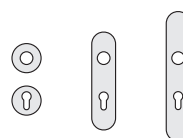


- 34 3403 008 (heavy-duty version)
- 34 3403 007 (low-profile rose)
- 34 3403 170 (locking adapter)
- 34 3403 076 (ditto with pushbutton)

The FSB 1020 model is the clearest embodiment of the “good form” of the 1950s. This is a handle with a flourish in the organic flow of its moulded-to-the-hand design and it looks symmetrical without actually being so. FSB 1020 is one of four models designed by FSB designer Johannes Potente which have been added to MoMA’s permanent collection.



Recommended rose and backplate variants



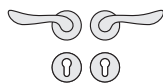
Design: Johannes Potente

* with restrictions depending on design

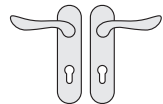
surface mount ●

flush mount* ●

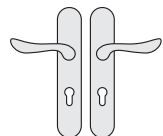
Door handle fittings



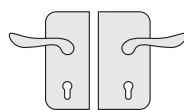
➤ 10 1020 | 17 1731 018 | 17 1735



➤ 10 1020 | 14 1451 018



➤ 10 1020 | 14 1418 018



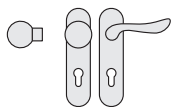
➤ 13 4223 041 (R) with 10 1020 00101 (R) ➤ 13 4223 051 (L) with 10 1020 00102 (L)

Glass door fittings not in brass

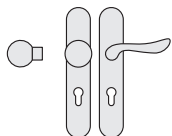
Entrance door fittings



➤ 10 1020 00004 (R) | 10 1020 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

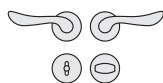


➤ 10 1020 00004 (R) | 10 1020 00005 (L) with 14 1451 018 | 19 1964 003

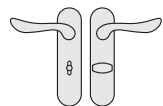


➤ 10 1020 00004 (R) | 10 1020 00005 (L) with 14 1418 018 | 19 1927 003

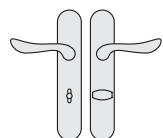
WC fittings



➤ 10 1020 | 17 1731 018 | 17 1735 00054



➤ 10 1020 | 14 1451 01854



➤ 10 1020 | 14 1418 01854

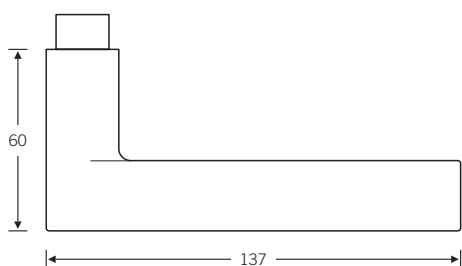
Window handles



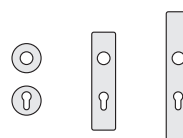
34 3404 | Page 342

R = DIN right hand
L = DIN left hand

Catalogue No. 6 published by the S. A. Loevy bronzeware factory in the 1930s includes a variety of door fittings by Rachlis, Grenander, Behrens, Wagenfeld and Paul in which a round shank is combined with a flat grip section. More recently, in the 1990s, the Spanish designer Miguel Milà re-interpreted these elements in the FSB 1126 model.



Recommended rose and backplate variants

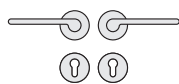


* with restrictions depending on design

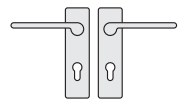
surface mount

flush mount*

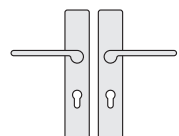
Door handle fittings



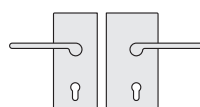
➤ 10 1021 | 17 1731 018 | 17 1735



➤ 10 1021 | 14 1450 018

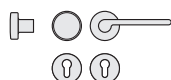


➤ 10 1021 | 14 1410 018

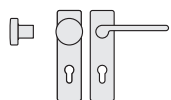


➤ 13 4220 041 (R) with 10 1021 00101 (R) ➤ 13 4220 051 (L) with 10 1021 00102 (L)

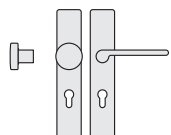
Entrance door fittings



➤ 10 1021 00004 (R) | 10 1021 00005 (L) with 17 1731 019 | 17 1735 | 23 0829 00006

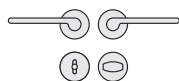


➤ 10 1021 00004 (R) | 10 1021 00005 (L) with 14 1450 018 | 19 1963 003

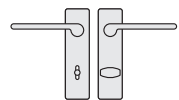


➤ 10 1021 00004 (R) | 10 1021 00005 (L) with 14 1410 018 | 19 1970 003

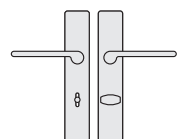
WC fittings



➤ 10 1021 | 17 1731 018 | 17 1735 00054



➤ 10 1021 | 14 1450 01854



➤ 10 1021 | 14 1410 01854

Window handles



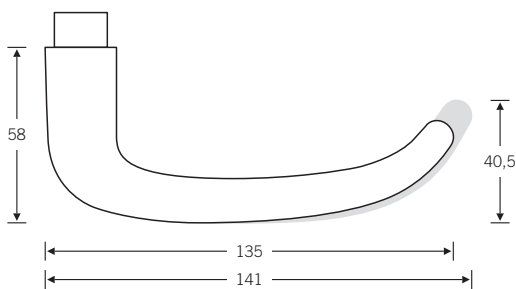
34 1021 048 (R) | 058 (L) (heavy-duty version)
 34 1021 047 (R) | 057 (L) (low-profile rose)
 34 1021 470 (R) | 570 (L) (locking adapter)
 34 1021 476 (R) | 576 (L) (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

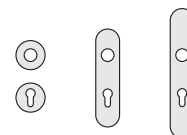
34 1021 | Page 327

3a

In the 1950s, the Swiss architect, sculptor and designer Max Bill got together with Ernst Moeckel to fashion a door handle that made design history as the "Ulm handle". From this, Johannes Potente created the 1023 model, which has been an alternative to common U-shaped models ever since.




Recommended rose and backplate variants



EN 179

 EN 179 model: FSB 1053

* with restrictions depending on design

surface mount				
flush mount*				
isis® systems				

Glass door fitting



Standard	●	●
isis® systems		●

13 4223 with 72 1023 | Page 472f.

Glass door fittings not in bronze or brass

Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1053 (straight) | Page 411

06 1053 (offset) | Page 410

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0802 (for solid doors) | Page 305

07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1023 | Page 427

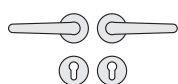
Additional items for the handle system:








XXL door handle 79 1117 | Page 626
Barrier-free fitting 14 424. | Page 627

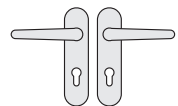
Additional items for large buildings:








isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

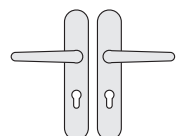
Door handle fittings










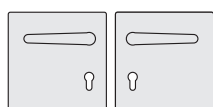
-  72 1023 613 (R)
-  76 1023 613 (R)
-  79 1053 613 (R)
-  10 1023 | 17 1731 018 | 17 1735
-  72 1023 614 (L)
-  76 1023 614 (L)
-  79 1053 614 (L)










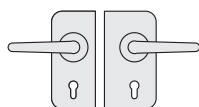
-  72 1023 607 (R)
-  76 1023 607 (R)
-  79 1053 607 (R)
-  10 1023 | 14 1451 018
-  72 1023 608 (L)
-  76 1023 608 (L)
-  79 1053 608 (L)







-  72 1023 627 (R)
-  76 1023 627 (R)
-  79 1053 627 (R)
-  10 1023 | 14 1418 018
-  72 1023 628 (L)
-  76 1023 628 (L)
-  79 1053 628 (L)






-  72 1023 033 (R)
-  76 1023 033 (R)
-  79 1053 033 (R)
-  10 1023 | 14 1488 003
-  72 1023 034 (L)
-  76 1023 034 (L)
-  79 1053 034 (L)

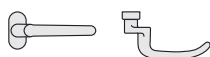




-  13 4223 042 (R) with 72 1023 61350 (R)
-  13 4223 041 (R) with 10 1023 00100
-  13 4223 052 (L) with 72 1023 61450 (L)
-  13 4223 051 (L) with 10 1023 00100

Frame door handles





-  09 1023 011
-  09 1023 012
-  09 1053 012





-  06 1023 011
-  06 1023 012
-  06 1053 012
-  06 1023 023 (ldf)
-  06 1053 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel & bronze)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel & bronze)
-  07 0846 428 (fixed, aluminium)

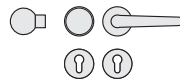


17 1757

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

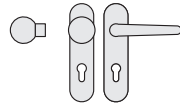
Heavy-duty and fire safety fittings not in brass
Glass door fittings not in bronze and brass

Entrance door fittings



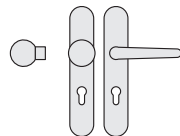
- 72 1023 615 (R)
- 76 1023 615 (R)
- 76 1023 619 (ldf)
- 79 1053 615 (R)
- 79 1053 619 (ldf)
- 10 1023 | 17 1731 019 | 17 1735 | 23 0802 0006

- 72 1023 616 (L)
- 76 1023 616 (L)
- 79 1053 616 (L)



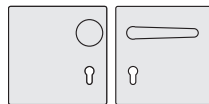
- 72 1023 609 (R)
- 76 1023 609 (R)
- 76 1023 611 (ldf)
- 79 1053 609 (R)
- 79 1053 611 (ldf)
- 10 1023 | 14 1451 018 | 19 1964 003

- 72 1023 610 (L)
- 76 1023 610 (L)
- 79 1053 610 (L)



- 72 1023 629 (R)
- 76 1023 629 (R)
- 76 1023 631 (ldf)
- 79 1053 629 (R)
- 79 1053 631 (ldf)
- 10 1023 | 14 1418 018 | 19 1927 003

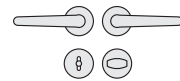
- 72 1023 630 (L)
- 76 1023 630 (L)
- 79 1053 630 (L)



- 72 1023 035 (R)
- 76 1023 035 (R)
- 79 1053 035 (R)
- 10 1023 | 14 1488 0.. | 19 1990 0..

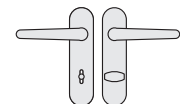
- 72 1023 036 (L)
- 76 1023 036 (L)
- 79 1053 036 (L)

WC fittings



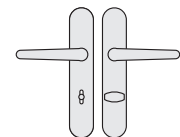
- 72 1023 619 (R)
- 10 1023 | 17 1731 018 | 17 1735 00054

- 72 1023 620 (L)



- 72 1023 611 (R)
- 10 1023 | 14 1451 01854

- 72 1023 612 (L)



- 72 1023 631 (R)
- 10 1023 | 14 1418 01854

- 72 1023 632 (L)



- 72 1023 039 (R)
- 10 1023 | 14 1488 0..54

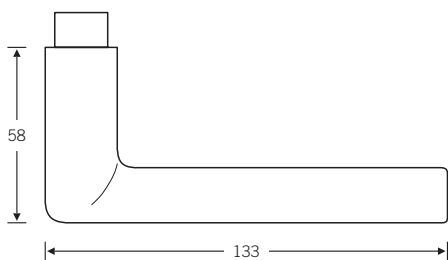
- 72 1023 040 (L)

Window handles

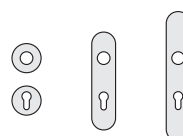


- 34 1023 008 (heavy-duty version)
- 34 1023 007 (low-profile rose)
- 34 1023 170 (locking adapter)
- 34 1023 076 (ditto with pushbutton)

The design parameters of the FSB 1025 are plain to see. A straight grip section is joined to the pivotal point on the shank. The handle has a droplet-shaped cross-section. With its no-frills looks, this is a design that offers up its services humbly. The FSB 1025 is brought to life by the way it seems to capture the light along its edges.



Recommended rose and backplate variants



Design: Hartmut Weise

* with restrictions depending on design

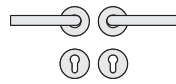
surface mount



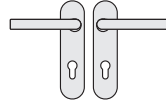
flush mount*



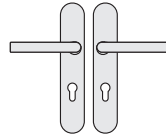
Door handle fittings



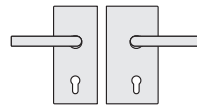
10 1025 | 17 1731 018 | 17 1735



10 1025 | 14 1451 018

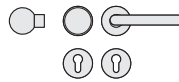


10 1025 | 14 1418 018

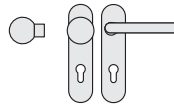


13 4220 041 (R) with 10 1025 00101 (R) 13 4220 051 (L) with 10 1025 00102 (L)

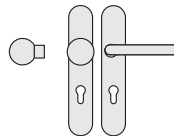
Entrance door fittings



10 1025 00004 (R) | 10 1025 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

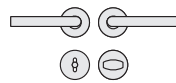


10 1025 00004 (R) | 10 1025 00005 (L) with 14 1451 018 | 19 1964 003

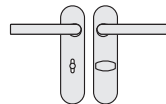


10 1025 00004 (R) | 10 1025 00005 (L) with 14 1418 018 | 19 1927 003

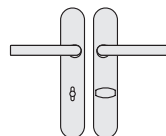
WC fittings



10 1025 | 17 1731 018 | 17 1735 00054



10 1025 | 14 1451 01854



10 1025 | 14 1418 01854

Window handles



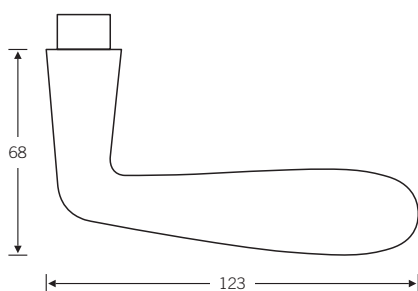
34 1025 008 (heavy-duty version)
 34 1025 007 (low-profile rose)
 34 1025 170 (locking adapter)
 34 1025 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

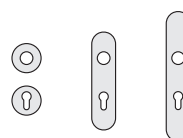
34 1025 | Page 328

3a

The FSB 1027 model is a stock item in the trade. It is rather disparagingly referred to as the “shoe horn”. The underlying design is from Professor Max Burchartz. The handle lies extremely snugly in your hand and unobtrusiveness is its watchword. The FSB version of the “shoe horn” is by Johannes Potente.



Recommended rose and backplate variants



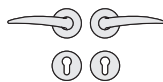
Design: Johannes Potente

* with restrictions depending on design

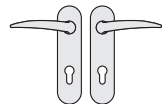
surface mount ●

flush mount* ●

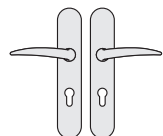
Door handle fittings



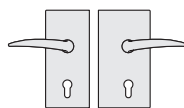
10 1027 | 17 1731 018 | 17 1735



10 1027 | 14 1451 018



10 1027 | 14 1418 018



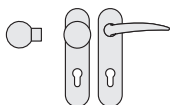
13 4220 041 (R) with 10 1027 00101 (R) 13 4220 051 (L) with 10 1027 00102 (L)

Glass door fittings not in brass

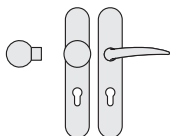
Entrance door fittings



10 1027 00004 (R) | 10 1027 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

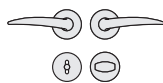


10 1027 00004 (R) | 10 1027 00005 (L) with 14 1451 018 | 19 1964 003

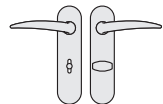


10 1027 00004 (R) | 10 1027 00005 (L) with 14 1418 018 | 19 1927 003

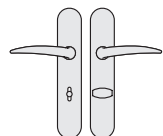
WC fittings



10 1027 | 17 1731 018 | 17 1735 00054



10 1027 | 14 1451 01854

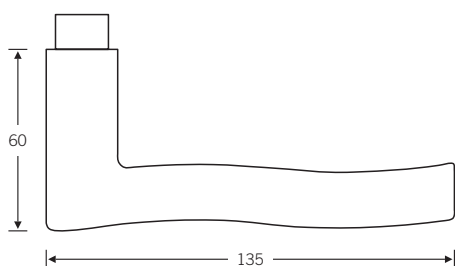


10 1027 | 14 1418 01854

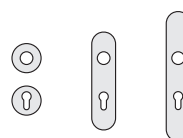
R = DIN right hand
L = DIN left hand

3a

The FSB 1028 is a variation on the parameters used in the FSB 1025, without neglecting the ergonomic qualities. This is a design that both pleases the eye and is pleasant to touch. The undulating grip section looks great, and it nestles into your hand.



Recommended rose and backplate variants



Design: Hartmut Weise

* with restrictions depending on design

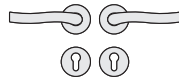
surface mount



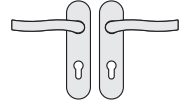
flush mount*



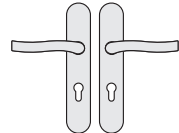
Door handle fittings



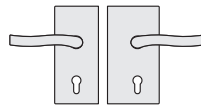
10 1028 | 17 1731 018 | 17 1735



10 1028 | 14 1451 018

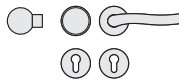


10 1028 | 14 1418 018

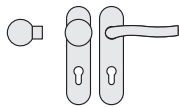


13 4220 041 (R) with 10 1028 00101 (R) | 13 4220 051 (L) with 10 1028 00102 (L)

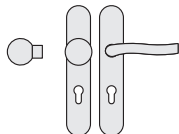
Entrance door fittings



10 1028 00004 (R) | 10 1028 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

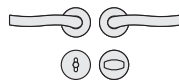


10 1028 00004 (R) | 10 1028 00005 (L) with 14 1451 018 | 19 1964 003

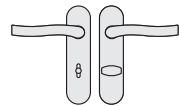


10 1028 00004 (R) | 10 1028 00005 (L) with 14 1418 018 | 19 1927 003

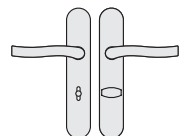
WC fittings



10 1028 | 17 1731 018 | 17 1735 00054



10 1028 | 14 1451 01854



10 1028 | 14 1418 01854

Window handles



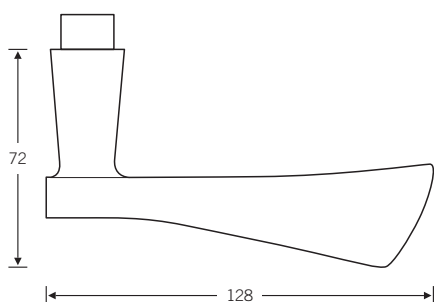
34 1025 008 (heavy-duty version)
34 1025 007 (low-profile rose)
34 1025 170 (locking adapter)
34 1025 076 (ditto with pushbutton)

R = DIN right hand
L = DIN left hand

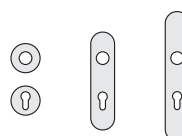
34 1025 | Page 328

3a

The FSB 1034 handle was Johannes Potente's first major design. He produced it in 1952. Once the copyright lapsed, it was imitated by the million throughout the world. It even had to suffer being remodelled in grey plastic in the days before plastic gained some colour.



Recommended rose and backplate variants

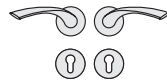


Design: Johannes Potente

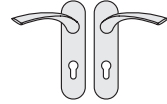
surface mount ●

flush mount ●

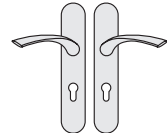
Door handle fittings



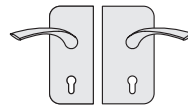
☞ 10 1034 | 17 1731 018 | 17 1735



☞ 10 1034 | 14 1451 018

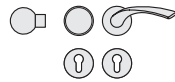


☞ 10 1034 | 14 1418 018

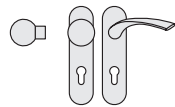


☞ 13 4223 041 (R) with 10 1034 00101 (R) ☞ 13 4223 051 (L) with 10 1034 00102 (L)

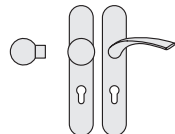
Entrance door fittings



☞ 10 1034 00004 (R) | 10 1034 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

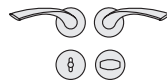


☞ 10 1034 00004 (R) | 10 1034 00005 (L) with 14 1451 018 | 19 1964 003

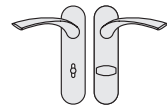


☞ 10 1034 00004 (R) | 10 1034 00005 (L) with 14 1418 018 | 19 1927 003

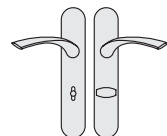
WC fittings



☞ 10 1034 | 17 1731 018 | 17 1735 00054



☞ 10 1034 | 14 1451 01854

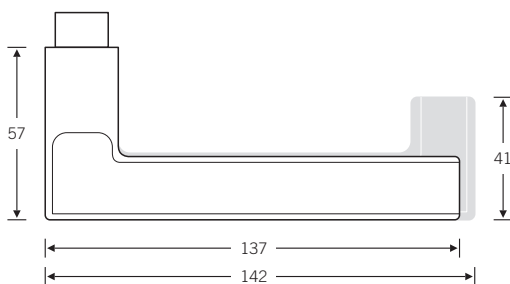
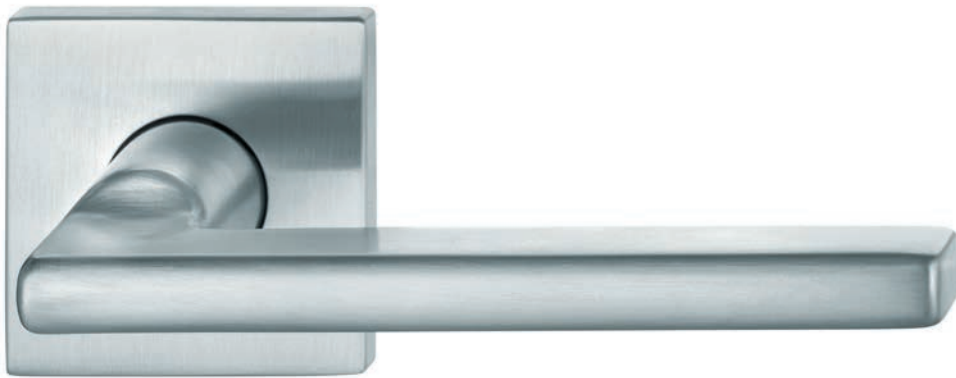


☞ 10 1034 | 14 1418 01854

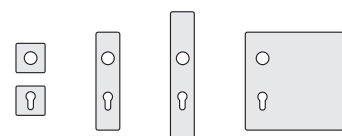
R = DIN right hand
L = DIN left hand

3a

In the autumn of 1996, Düsseldorf-based interior designer Heike Falkenberg asked FSB to recreate an old handle design for a renovation job. Using the sketch she submitted, FSB's developers milled a prototype from an FSB 1076 handle. This looked so good that we decided to market our gripping idea.



Recommended rose and backplate variants



EN 179

Design: Heike Falkenberg

 EN 179 model: FSB 1031

In aluminium only available in natural anodised finish (FSB 0105)

* only in stainless steel
 ** only with a round rose
 *** with restrictions depending on design

surface mount	●	●	○	●
flush mount***	●	●	○	●
isis® systems**	●	○	●	

Glass door fitting



Standard	●	●
isis® systems		●

13 4220 with 10 1035 | Page 470f.

Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1031 (straight) | Page 411
06 1031 (offset) | Page 410

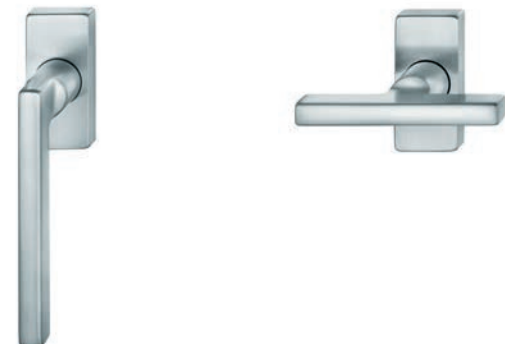
Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0811 (for solid doors) | Page 305
07 0812 (for frame doors) | Page 430

Window handles



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1035 | Page 328
34 3784 | Page 343

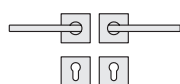
Additional items for the handle system:





Door pull 66 6540 | Page 512
Barrier-free fitting 14 424. | Page 627




Additional items for large buildings:

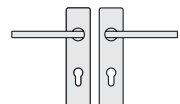
isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

Door handle fittings






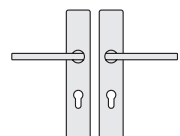
-  72 1035 641 (R)
-  76 1035 639 (R)*
-  79 1031 639 (R)
-  10 1035 | 17 1703 018 | 17 1704

-  72 1035 642 (L)
-  76 1035 640 (L)*
-  79 1031 640 (L)






-  72 1035 601 (R)
-  76 1035 601 (R)*
-  79 1031 601 (R)
-  10 1035 | 14 1450 018





-  72 1035 602 (L)
-  76 1035 602 (L)*
-  79 1031 602 (L)






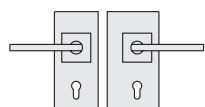
-  72 1035 621 (R)
-  76 1035 621 (R)*
-  79 1031 621 (R)
-  10 1035 | 14 1410 018



-  72 1035 622 (L)
-  76 1035 622 (L)*
-  79 1031 622 (L)




-  72 1035 033 (R)
-  76 1035 033 (R)*
-  79 1031 033 (R)
-  10 1035 | 14 1488 003

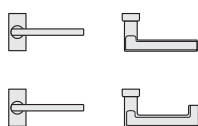
-  72 1035 034 (L)
-  76 1035 034 (L)*
-  79 1031 034 (L)






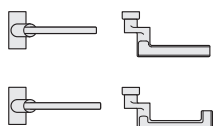
-  13 4220 042 (R) with 72 1035 64150 (R)
-  72 1035 041 (R) with 10 1035 00100

-  13 4220 052 (L) with 72 1035 64250 (L)
-  72 1035 051 (L) with 10 1035 00100



Frame door handles



-  09 1035 071
-  09 1035 072*
-  09 1031 072




-  06 1035 071
-  06 1035 072*
-  06 1031 072

-  06 1035 073 (ldf)*
-  06 1031 073 (ldf)

Frame door knobs



- 07 0811 229 (fixed)
-  07 0811 229 (fixed, stainless steel)
-  07 0811 429 (fixed, aluminium)



- 07 0812 229 (fixed)
-  07 0812 229 (fixed, stainless steel)
-  07 0812 429 (fixed, aluminium)



17 1778

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

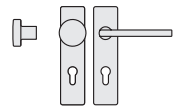
* only in stainless steel

Entrance door fittings



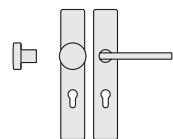
- 72 1035 643 (R)
- 76 1035 641 (R)*
- 76 1035 643 (ldf)*
- 79 1031 641 (R)
- 79 1031 643 (ldf)
- 10 1035 | 17 1703 019 | 17 1704 | 23 0811 00026

- 72 1035 644 (L)
- 76 1035 642 (L)*
- 79 1031 642 (L)



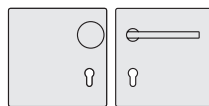
- 72 1035 603 (R)
- 76 1035 603 (R)*
- 76 1035 605 (ldf)*
- 79 1031 603 (R)
- 79 1031 605 (ldf)
- 10 1035 | 14 1450 018 | 19 1963 003

- 72 1035 604 (L)
- 76 1035 604 (L)*
- 79 1031 604 (L)



- 72 1035 623 (R)
- 76 1035 623 (R)*
- 76 1035 625 (ldf)*
- 79 1031 623 (R)
- 79 1031 625 (ldf)
- 10 1035 | 14 1410 018 | 19 1970 003

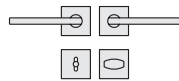
- 72 1035 624 (L)
- 76 1035 624 (L)*
- 79 1031 624 (L)



- 72 1035 037 (R)
- 76 1035 037 (R)*
- 79 1031 037 (R)
- 10 1035 | 14 1488 0.. | 19 1994 0..

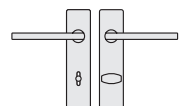
- 72 1035 038 (L)
- 76 1035 038 (L)*
- 79 1031 038 (L)

WC fittings



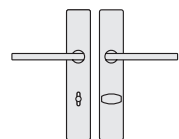
- 72 1035 645 (R)
- 10 1035 | 17 1703 018 | 17 1704 00054

- 72 1035 646 (L)



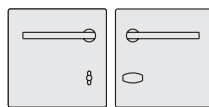
- 72 1035 605 (R)
- 10 1035 | 14 1450 01854

- 72 1035 606 (L)



- 72 1035 625 (R)
- 10 1035 | 14 1410 01854

- 72 1035 626 (L)



- 72 1035 039 (R)
- 10 1035 | 14 1488 0..54

- 72 1035 040 (L)

Window handles

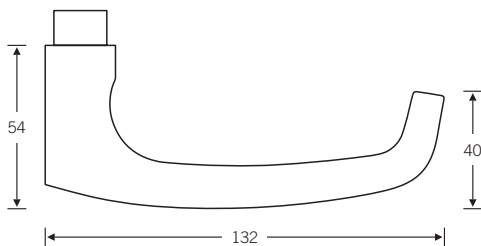


- 34 1035 068 (heavy-duty version)
- 34 1035 067 (low-profile rose)
- 34 1035 170 (locking adapter)
- 34 1035 076 (ditto with pushbutton)

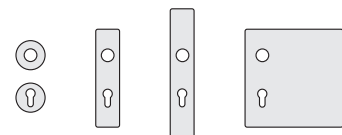


- 34 3784 068 (heavy-duty version)
- 34 3784 067 (low-profile rose)
- 34 3784 170 (locking adapter)
- 34 3784 076 (ditto with pushbutton)

FSB 1045 is based on FSB model 1015, which was conceived in the 1930s by a company called wehag. Given the unceasing use of the FSB 1015 model in commercial buildings, we have added a return variant of this design conforming to DIN EN 179.



Recommended rose and backplate variants



EN 179

Wide back-plate fittings in bronze on request

* with restrictions depending on design
 ** isis® systems not in bronze

surface mount	●	●	●
flush mount*	●	●	●
isis® systems**		●	●

Glass door fitting



Standard	●	●
isis® systems		●

13 4223 with 72 1045 | Page 472f.

Glass door fittings not in bronze

Frame door handles



Standard	●	●
isis® systems	●	●

09 1045 (straight) | Page 413

06 1045 (offset) | Page 412

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0829 (for solid doors) | Page 307

07 0809 (for frame doors) | Page 431

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1015 | Page 326

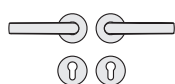
Additional items for the handle system:






Barrier-free fitting 14 424. | Page 627

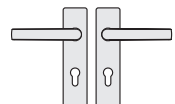
Additional items for large buildings:






isis® access management | Page 43f.
 SSF tubular frame locks with through screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.

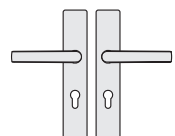
Door handle fittings



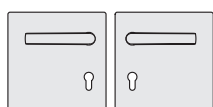
-  72 1045 613 (R)
-  72 1045 614 (L)
-  79 1045 613 (R)
-  79 1045 614 (L)
-  10 1045 | 17 1731 018 | 17 1735








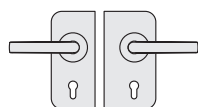
-  72 1045 601 (R)
-  72 1045 602 (L)
-  79 1045 601 (R)
-  79 1045 602 (L)
-  10 1045 | 14 1450 018







-  72 1045 621 (R)
-  72 1045 622 (L)
-  79 1045 621 (R)
-  79 1045 622 (L)
-  10 1045 | 14 1410 018





-  72 1045 033 (R)
-  72 1045 034 (L)
-  79 1045 033 (R)
-  79 1045 034 (L)
-  10 1045 | 14 1488 003

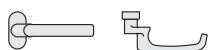


-  13 4223 042 (R) with 72 1045 61350 (R)
-  13 4223 052 (L) with 72 1045 61450 (L)
-  13 4223 041 (R) with 10 1045 00100
-  13 4223 051 (L) with 10 1045 00100

Frame door handles





-  09 1045 011
-  09 1045 012





-  06 1045 011
-  06 1045 012
-  06 1045 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
-  07 0829 228 (fixed, stainless steel & bronze)
-  07 0829 428 (fixed, aluminium)



- 07 0809 228 (fixed)
-  07 0809 228 (fixed, stainless steel & bronze)
-  07 0809 428 (fixed, aluminium)

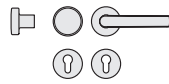


- 17 1757

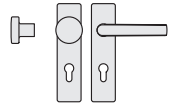
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Glass door fittings not in bronze

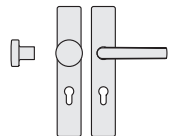
Entrance door fittings



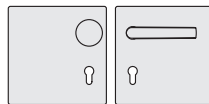
- 72 1045 617 (R) 72 1045 618 (L)
- 79 1045 617 (R) 79 1045 618 (L)
- 79 1045 619 (ldf)
- 10 1045 | 17 1731 019 | 17 1735 | 23 0829 00006



- 72 1045 603 (R) 72 1045 604 (L)
- 79 1045 603 (R) 79 1045 604 (L)
- 79 1045 605 (ldf)
- 10 1045 | 14 1450 018 | 19 1963 003

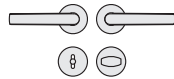


- 72 1045 623 (R) 72 1045 624 (L)
- 79 1045 623 (R) 79 1045 624 (L)
- 79 1045 625 (ldf)
- 10 1045 | 14 1410 018 | 19 1970 003

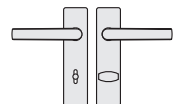


- 72 1045 037 (R) 72 1045 038 (L)
- 79 1045 037 (R) 79 1045 038 (L)
- 10 1045 | 14 1488 0.. | 19 1994 0..

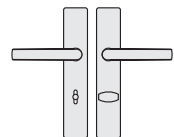
WC fittings



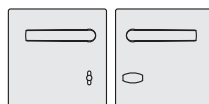
- 72 1045 619 (R) 72 1045 620 (L)
- 10 1045 | 17 1731 018 | 17 1735 00054



- 72 1045 605 (R) 72 1045 606 (L)
- 10 1045 | 14 1450 01854



- 72 1045 625 (R) 72 1045 626 (L)
- 10 1045 | 14 1410 01854



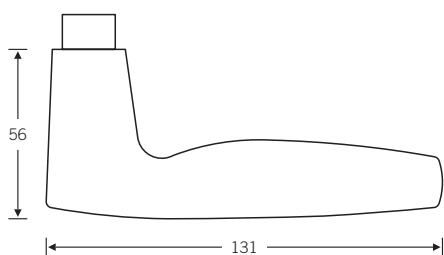
- 72 1045 039 (R) 72 1045 040 (L)
- 10 1045 | 14 1488 0..54

Window handles

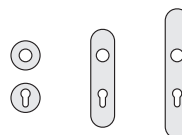


- 34 1015 008 (heavy-duty version)
- 34 1015 007 (low-profile rose)
- 34 1015 170 (locking adapter)
- 34 1015 076 (ditto with pushbutton)

The FSB 1051 handle has come to epitomise FSB. The “Schneider Handle” became Johannes Potente’s supreme creation and a market leader in the 1960s. It is typified by its harmonised parts carefully shaped to the hand. FSB 1051 is one of four models designed by Johannes Potente which were added to MoMA’s permanent collection in the summer of 1998.



Recommended rose and backplate variants

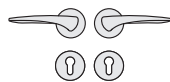


Design: Johannes Potente

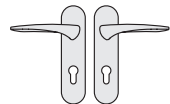
surface mount



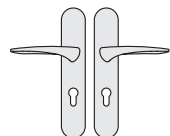
Door handle fittings



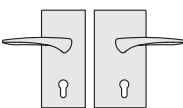
➤ 10 1051 | 17 1731 018 | 17 1735



➤ 10 1051 | 14 1451 018



➤ 10 1051 | 14 1418 018

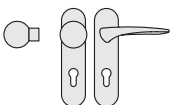


➤ 13 4220 041 (R) with 10 1051 00101 (R) ➤ 13 4220 051 (L) with 10 1051 00102 (L)

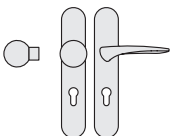
Entrance door fittings



➤ 10 1051 00004 (R) | 10 1051 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

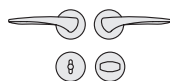


➤ 10 1051 00004 (R) | 10 1051 00005 (L) with 14 1451 018 | 19 1964 003

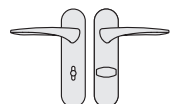


➤ 10 1051 00004 (R) | 10 1051 00005 (L) with 14 1418 018 | 19 1927 003

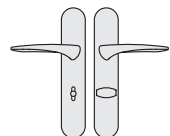
WC fittings



➤ 10 1051 | 17 1731 018 | 17 1735 00054



➤ 10 1051 | 14 1451 01854



➤ 10 1051 | 14 1418 01854

Window handles

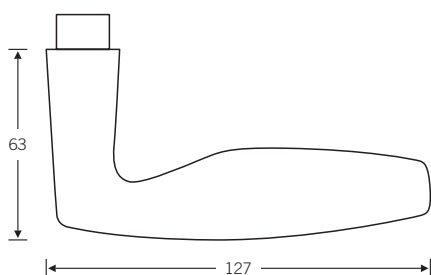


34 1058 008 (heavy-duty version)
34 1058 007 (low-profile rose)
34 1058 170 (locking adapter)
34 1058 076 (ditto with pushbutton)

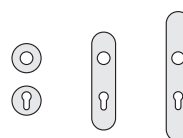
R = DIN right hand
L = DIN left hand

34 1058 | Page 329

Model FSB 1057 is the work of Munich-based designer Jan Roth. Unimpressed by the handles then on sale he designed a handle of his own for his doors. After the first casting in aluminium, he took the polished parts home with him and fitted them to his doors, where they can still be found.



Recommended rose and backplate variants



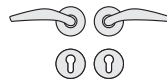
Design: Jan Roth

* with restrictions depending on design

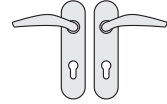
surface mount ●

flush mount* ●

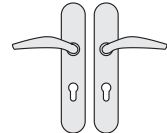
Door handle fittings



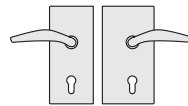
10 1057 | 17 1731 018 | 17 1735



10 1057 | 14 1451 018



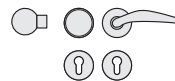
10 1057 | 14 1418 018



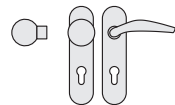
13 4220 041 (R) with 10 1057 00101 (R) 13 4220 051 (L) with 10 1057 00102 (L)

Glass door fittings not in brass

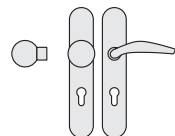
Entrance door fittings



10 1057 00004 (R) | 10 1057 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

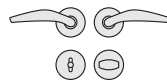


10 1057 00004 (R) | 10 1057 00005 (L) with 14 1451 018 | 19 1964 003

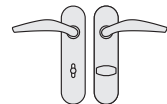


10 1057 00004 (R) | 10 1057 00005 (L) with 14 1418 018 | 19 1927 003

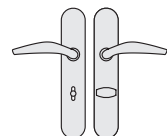
WC fittings



10 1057 | 17 1731 018 | 17 1735 00054



10 1057 | 14 1451 01854

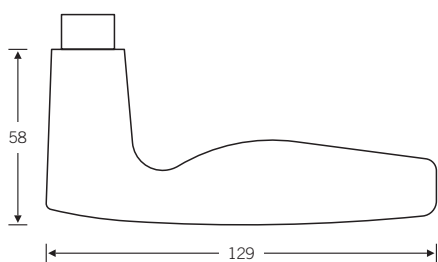


10 1057 | 14 1418 01854

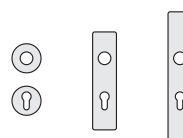
R = DIN right hand
L = DIN left hand

3a

FSB 1058 was Johannes Potente's favourite model. It is not known why, only two years after designing FSB 1051, his supreme creation, he followed up with this redesign. FSB 1058 is one of four models designed by Johannes Potente which have been added to MoMA's permanent collection.



Recommended rose and backplate variants

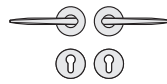


Design: Johannes Potente

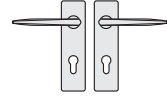
surface mount



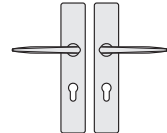
Door handle fittings



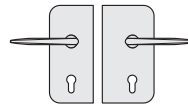
➤ 10 1058 | 17 1731 018 | 17 1735



➤ 10 1058 | 14 1450 018



➤ 10 1058 | 14 1410 018

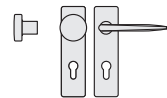


➤ 13 4223 041 (R) with 10 1058 00100 ➤ 13 4223 051 (L) with 10 1058 00100

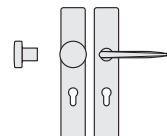
Entrance door fittings



➤ 10 1058 | 17 1731 019 | 17 1735 | 23 0829 00006

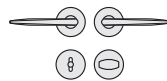


➤ 10 1058 | 14 1450 018 | 19 1963 003

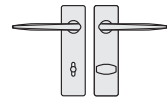


➤ 10 1058 | 14 1410 018 | 19 1970 003

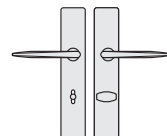
WC fittings



➤ 10 1058 | 17 1731 018 | 17 1735 00054



➤ 10 1058 | 14 1450 01854



➤ 10 1058 | 14 1410 01854

Window handles

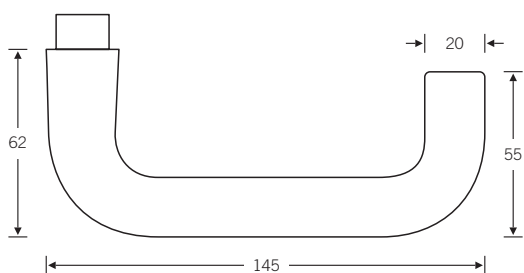


34 1058 008 (heavy-duty version)
 34 1058 007 (low-profile rose)
 34 1058 170 (locking adapter)
 34 1058 076 (ditto with pushbutton)

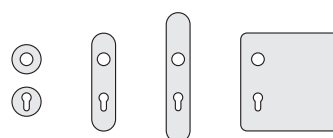
R = DIN right hand
 L = DIN left hand

34 1058 | Page 329

This is a handle design that became “really famous” during the period of bright colours in the 1970s. For many architects who were schoolchildren at the time this handle epitomises the architecture of the age.



Recommended rose and backplate variants



EN 179

* with restrictions depending on design

surface mount	●	●	●
flush mount*	●		
isis® systems		●	●

Glass door fitting



Standard	●	●
isis® systems		●

13 4223 with 72 1070 | Page 472f.

Frame door handles



Standard	●	●
isis® systems	●	●

09 1070 (straight) | Page 415
06 1070 (offset) | Page 414

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0802 (for solid doors) | Page 304
07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1070 | Page 329

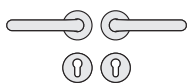
Additional items for the handle system:






- Fitting lifting/sliding doors 34 1146 012.. | Page 354f.
- Lifting/sliding door fitting 34 1146 011.. | Page 357f.
- Door pull 66 6602 | Page 518
- Door pull 66 6662 | Page 535
- XXL door handle 79 1090 | Page 626
- Barrier-free fitting 14 424. | Page 627

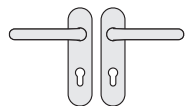
Additional items for large buildings:






- isis® access management | Page 43f.
- SSF tubular frame locks with through screw fixing option | Page 406
- Barrier-free ErgoSystem® | Page 629f.

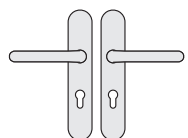
Door handle fittings



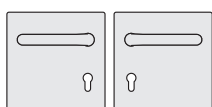
-  72 1070 613 (R)
-  72 1070 614 (L)
-  79 1070 613 (R)
-  79 1070 614 (L)
-  10 1070 | 17 1731 018 | 17 1735








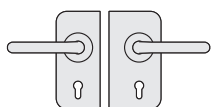
-  72 1070 607 (R)
-  72 1070 608 (L)
-  79 1070 607 (R)
-  79 1070 608 (L)
-  10 1070 | 14 1451 018







-  72 1070 627 (R)
-  72 1070 628 (L)
-  79 1070 627 (R)
-  79 1070 628 (L)
-  10 1070 | 14 1418 018





-  72 1070 033 (R)
-  72 1070 034 (L)
-  79 1070 033 (R)
-  79 1070 034 (L)
-  10 1070 | 14 1488 003

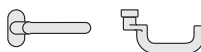


-  13 4223 042 (R) with 72 1070 61350 (R)
-  13 4223 052 (L) with 72 1070 61450 (L)
-  13 4223 041 (R) with 10 1070 00100
-  13 4223 051 (L) with 10 1070 00100

Frame door handles





-  09 1070 011
-  09 1070 012



-  06 1070 011
-  06 1070 012
-  06 1070 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



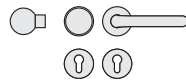
- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)



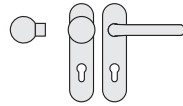
- 17 1757

R = DIN right hand
 L = DIN left hand
 ldf = inactive door fitting

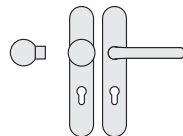
Entrance door fittings



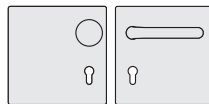
- 72 1070 615 (R) 72 1070 616 (L)
- 79 1070 615 (R) 79 1070 616 (L)
- 79 1070 619 (ldf)
- 10 1070 | 17 1731 019 | 17 1735 | 23 0802 00006



- 72 1070 609 (R) 72 1070 610 (L)
- 79 1070 609 (R) 79 1070 610 (L)
- 79 1070 611 (ldf)
- 10 1070 | 14 1451 018 | 19 1964 003

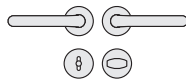


- 72 1070 629 (R) 72 1070 630 (L)
- 79 1070 629 (R) 79 1070 630 (L)
- 79 1070 631 (ldf)
- 10 1070 | 14 1418 018 | 19 1927 003

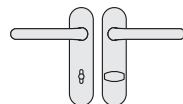


- 72 1070 035 (R) 72 1070 036 (L)
- 79 1070 035 (R) 79 1070 036 (L)
- 10 1070 | 14 1488 0.. | 19 1990 0..

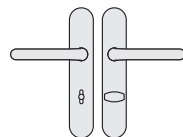
WC fittings



- 72 1070 619 (R) 72 1070 620 (L)
- 10 1070 | 17 1731 018 | 17 1735 00054



- 72 1070 611 (R) 72 1070 612 (L)
- 10 1070 | 14 1451 01854



- 72 1070 631 (R) 72 1070 632 (L)
- 10 1070 | 14 1418 01854



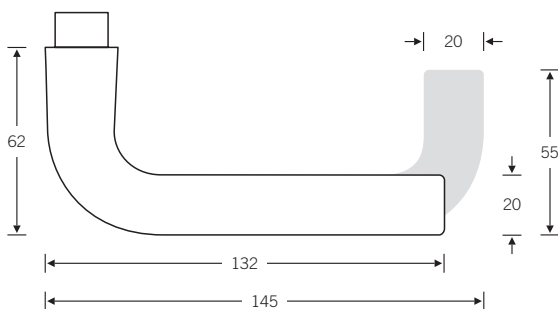
- 72 1070 039 (R) 72 1070 040 (L)
- 10 1070 | 14 1488 0..54

Window handles

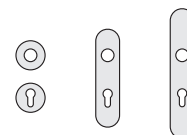


- 34 1070 008 (heavy-duty version)
- 34 1070 007 (low-profile rose)
- 34 1070 170 (locking adapter)
- 34 1070 076 (ditto with pushbutton)

In the 1920s Mr. Mallet-Stevens mitred two sections of cylindrical tubing together: FSB 1076. Mr. Wittgenstein bent a cylindrical brass tube: FSB 1147. Messrs Gropius and Meyer married an angled piece of square section material to a handle bushing: FSB 1102. However, we still don't know today who it was that picked up a saw and "liberated" FSB 1147 from its hemispherical tip:



Recommended rose and backplate variants



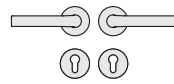
EN 179

 EN 179 model: FSB 1070 | Page 146

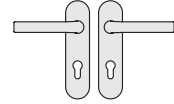
* with restrictions depending on design

surface mount	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
flush mount*	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

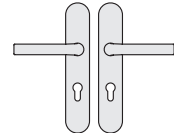
Door handle fittings



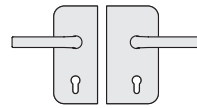
➤ 10 1075 | 17 1731 018 | 17 1735



➤ 10 1075 | 14 1451 018

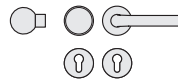


➤ 10 1075 | 14 1418 018

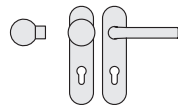


➤ 13 4223 041 (R) with 10 1075 00100 ➤ 13 4223 051 (L) with 10 1075 00100

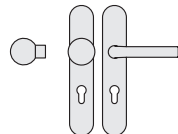
Entrance door fittings



➤ 10 1075 | 17 1731 019 | 17 1735 | 23 0802 00006

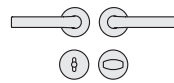


➤ 10 1075 | 14 1451 018 | 19 1964 003

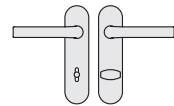


➤ 10 1075 | 14 1418 018 | 19 1927 003

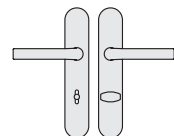
WC fittings



➤ 10 1075 | 17 1731 018 | 17 1735 00054



➤ 10 1075 | 14 1451 01854



➤ 10 1075 | 14 1418 01854

Window handles



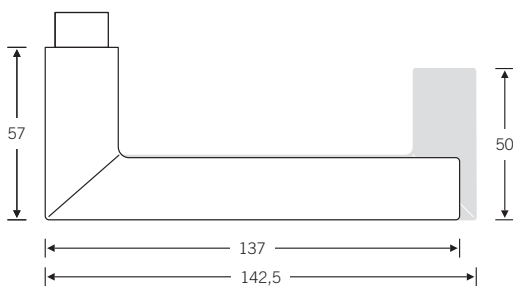
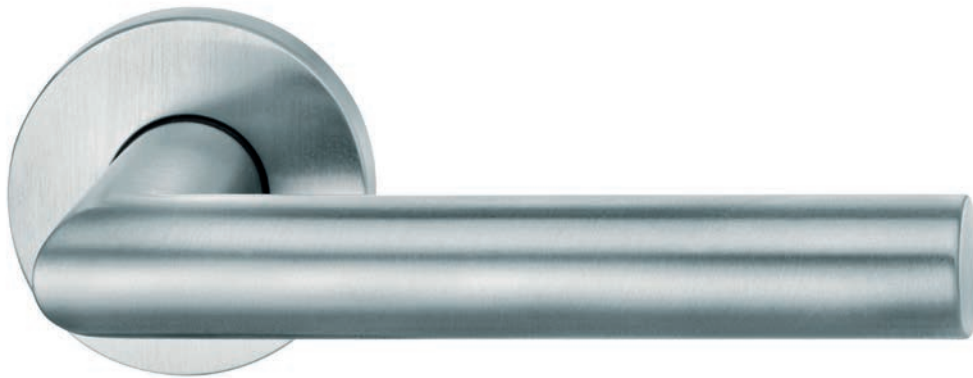
34 1075 008 (heavy-duty version)
 34 1075 007 (low-profile rose)
 34 1075 170 (locking adapter)
 34 1075 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

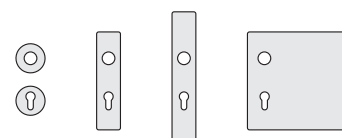
34 1075 | Page 330

3a

The architect Robert Mallet-Stevens (1886 – 1945) was the one who hit upon the idea of cutting a round tube in two and mitring the ends together again at a right angle. His creation is today known as the “Frankfurt model”. The handle was rediscovered when the Architecture Museum was rebuilt and proceeded to take the market by storm.



Recommended rose and backplate variants



EN 179

 EN 179 model: FSB 1016 | Page 130

Wide back-plate fittings in bronze on request

* with restrictions depending on design
 ** isis® systems not in bronze and brass

surface mount				
flush mount*				
isis® systems**				

Glass door fitting



Standard	●
isis® systems	●

13 4224 with 10 1076 | Page 368f.

Glass door fittings not in bronze and brass

Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1076 (straight) | Page 417

06 1076 (offset) | Page 416

06 1076 not in bronze and brass

Door knobs

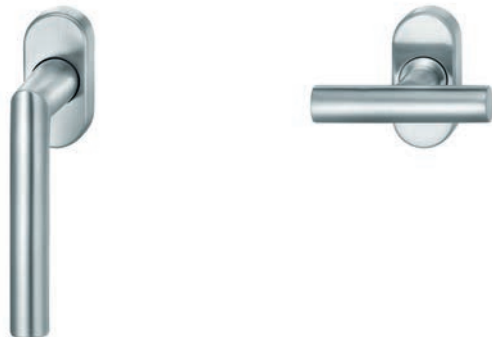


Solid doors	●	●	●
Frame doors		●	●

23 0829 (for solid doors) | Page 307

07 0809 (for frame doors) | Page 431

Window handles



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1076 | Page 330

34 3403 | Page 343

34 3403 not in bronze and brass

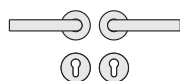
Additional items for the handle system:








Fittings lifting/sliding doors 34 1016 012.. | Page 354f.
 Lifting/sliding door fitting 34 1016 011.. | Page 357f.
 Door pull 66 6514 | Page 499
 Door pull 66 6669 | Page 519
 Barrier-free fitting 14 424. | Page 627

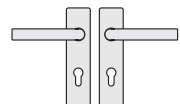
Additional items for large buildings:

isis® access management | Page 43f.
 SSF tubular frame locks with through screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.

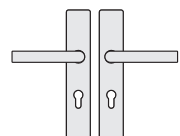
Door handle fittings










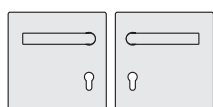
-  72 1076 613 (R)
-  76 1076 613 (R)
-  79 1016 613 (R)
-  10 1076 | 17 1731 018 | 17 1735
-  72 1076 614 (L)
-  76 1076 614 (L)
-  79 1016 614 (L)



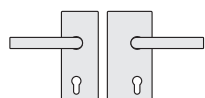
-  72 1076 601 (R)
-  76 1076 601 (R)
-  79 1016 601 (R)
-  10 1076 | 14 1450 018
-  72 1076 602 (L)
-  76 1076 602 (L)
-  79 1016 602 (L)





-  72 1076 621 (R)
-  76 1076 621 (R)
-  79 1016 621 (R)
-  10 1076 | 14 1410 018
-  72 1076 622 (L)
-  76 1076 622 (L)
-  76 1016 622 (L)

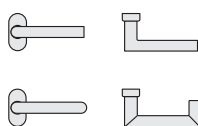






-  72 1076 033 (R)
-  76 1076 033 (R)
-  79 1016 033 (R)
-  10 1076 | 14 1488 003
-  72 1076 034 (L)
-  76 1076 034 (L)
-  79 1016 034 (L)

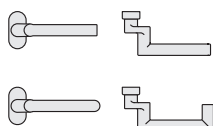


-  13 4224 042 (R) with 10 1076 00300
-  13 4224 052 (L) with 10 1076 00300

Frame door handles



-  09 1076 011
-  09 1076 012
-  09 1016 011
-  09 1016 012




-  06 1076 011
-  06 1076 012
-  06 1076 023 (ldf)
-  06 1016 011
-  06 1016 012
-  06 1016 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
-  07 0829 228 (fixed, stainless steel)
-  07 0829 428 (fixed, aluminium)



- 07 0809 228 (fixed)
-  07 0809 228 (fixed, stainless steel)
-  07 0809 428 (fixed, aluminium)

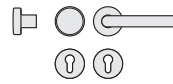


17 1757

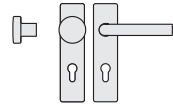
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Heavy-duty and fire safety fittings not in brass
Wide back-plate fittings in bronze on request

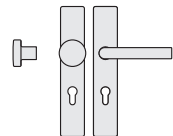
Entrance door fittings



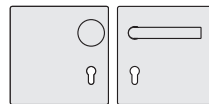
- 72 1076 617 (R)
- 76 1076 617 (R)
- 76 1076 619 (ldf)
- 79 1016 617 (R)
- 79 1016 619 (ldf)
- 10 1076 | 17 1731 019 | 17 1735 | 23 0829 0006
- 72 1076 618 (L)
- 76 1076 618 (L)
- 79 1016 618 (L)



- 72 1076 603 (R)
- 76 1076 603 (R)
- 76 1076 605 (ldf)
- 79 1016 603 (R)
- 79 1016 605 (ldf)
- 10 1076 | 14 1450 018 | 19 1963 003
- 72 1076 604 (L)
- 76 1076 604 (L)
- 79 1016 604 (L)

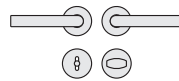


- 72 1076 623 (R)
- 76 1076 623 (R)
- 76 1076 625 (ldf)
- 79 1016 623 (R)
- 79 1016 625 (ldf)
- 10 1076 | 14 1410 018 | 19 1970 003
- 72 1076 624 (L)
- 76 1076 624 (L)
- 79 1016 624 (L)

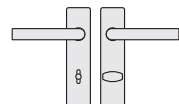


- 72 1076 037 (R)
- 76 1076 037 (R)
- 79 1016 037 (R)
- 10 1076 | 14 1488 0.. | 19 1994 0..
- 72 1076 038 (L)
- 76 1076 038 (L)
- 79 1016 038 (L)

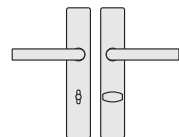
WC fittings



- 72 1076 619 (R)
- 10 1076 | 17 1731 018 | 17 1735 00054
- 72 1076 620 (L)



- 72 1076 605 (R)
- 10 1076 | 14 1450 01854
- 72 1076 606 (L)



- 72 1076 625 (R)
- 10 1076 | 14 1410 01854
- 72 1076 626 (L)



- 72 1076 039 (R)
- 10 1076 | 14 1488 0..54
- 72 1076 040 (L)

Window handles

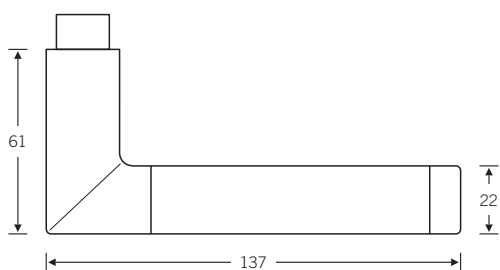


- 34 1076 008 (heavy-duty version)
- 34 1076 007 (low-profile rose)
- 34 1076 170 (locking adapter)
- 34 1076 076 (ditto with pushbutton)

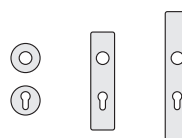


- 34 3403 008 (heavy-duty version)
- 34 3403 007 (low-profile rose)
- 34 3403 170 (locking adapter)
- 34 3403 076 (ditto with pushbutton)

The idea behind the FSB 1077 series of door handles was to give architects, craftsmen and end-users some choice in the material used for the grip sections of their handles. If you want: a democratic handle!



Recommended rose and backplate variants



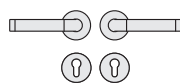
Combinations:

Roses, backplates and elbows in natural anodised aluminium (FSB 0105), grip section in stainless steel or hard, black plastic

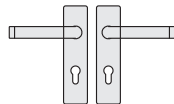
Door pull 66 6541 | page 512

surface mount	●	○
flush mount	●	○

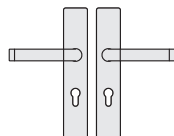
Door handle fittings



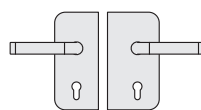
10 1077 | 17 1731 018 | 17 1735



10 1077 | 14 1450 018

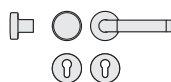


10 1077 | 14 1410 018

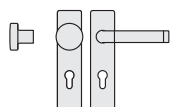


13 4223 041 (R) with 10 1077 00100 13 4223 051 (L) with 10 1077 00100

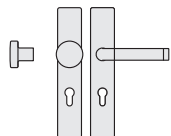
Entrance door fittings



10 1077 | 17 1731 019 | 17 1735 | 23 0829 00006

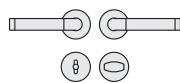


10 1077 | 14 1450 018 | 19 1963 003

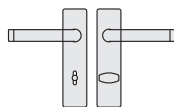


10 1077 | 14 1410 018 | 19 1970 003

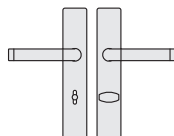
WC fittings



10 1077 | 17 1731 018 | 17 1735 00054



10 1077 | 14 1450 01854



10 1077 | 14 1410 01854

Window handles



34 1077 008 (heavy-duty version)
 34 1077 007 (low-profile rose)
 34 1077 170 (locking adapter)
 34 1077 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

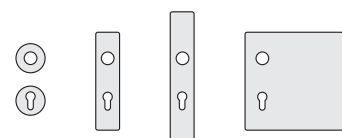
34 1077 | Page 331

3a

Christoph Ingenhoven was inspired by the quintessential “classic”, FSB 1076, which he reinterpreted both in the mitring and the grip section. The particular attraction of the FSB 1078 is the transition from the round shank to the flat surfaces on the grip section. The associated return version complements the open model with a closed design to EN 179.







Recommended rose and backplate variants



Design:
Christoph Ingenhoven

 EN 179 model: FSB 1088

* with restrictions depending on design

				
surface mount	●	●	●	●
flush mount*	●	●	●	●
isis® systems		●	●	●

Glass door fitting



Standard	●
isis® systems	●

13 4224 with 10 1078 | Page 468f.

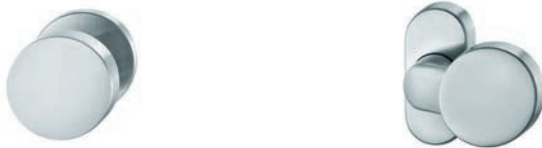
Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1088 (straight) | Page 417
06 1088 (offset) | Page 416

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0829 (for solid doors) | Page 307
07 0809 (for frame doors) | Page 431

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1078 | Page 331

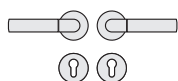
Additional items for the handle system:








Glass door pull 36 3688 | Page 479
Barrier-free fitting 14 424. | Page 627

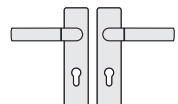
Additional items for large buildings:







isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

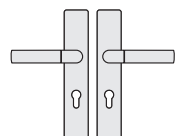
Door handle fittings










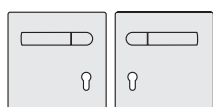
-  72 1078 613 (R)
-  76 1078 613 (R)
-  79 1088 613 (R)
-  10 1078 | 17 1731 018 | 17 1735
-  72 1078 614 (L)
-  76 1078 614 (L)
-  79 1088 614 (L)









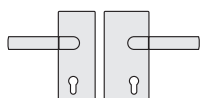
-  72 1078 601 (R)
-  76 1078 601 (R)
-  79 1088 601 (R)
-  10 1078 | 14 1450 018
-  72 1078 602 (L)
-  76 1078 602 (L)
-  79 1088 602 (L)





-  72 1078 621 (R)
-  76 1078 621 (R)
-  79 1088 621 (R)
-  10 1078 | 14 1410 018
-  72 1078 622 (L)
-  76 1078 622 (L)
-  79 1088 622 (L)

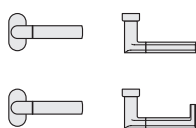





-  72 1078 033 (R)
-  76 1078 033 (R)
-  79 1088 033 (R)
-  10 1078 | 14 1488 003
-  72 1078 034 (L)
-  76 1078 034 (L)
-  79 1088 034 (L)

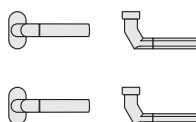


-  13 4224 042 (R) with 10 1078 00300
-  13 4224 052 (L) with 10 1078 00300

Frame door handles





-  09 1078 011
-  09 1078 012
-  09 1088 012



-  06 1078 011
-  06 1078 012
-  06 1088 012
-  06 1078 023 (ldf)
-  06 1088 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
-  07 0829 228 (fixed, stainless steel)
-  07 0829 428 (fixed, aluminium)



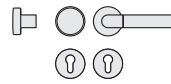
- 07 0809 228 (fixed)
-  07 0809 228 (fixed, stainless steel)
-  07 0809 428 (fixed, aluminium)



- 17 1757

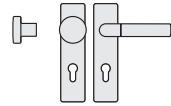
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Entrance door fittings



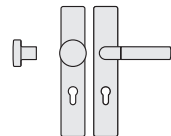
- 72 1078 617 (R)
- 76 1078 617 (R)
- 76 1078 619 (ldf)
- 79 1088 617 (R)
- 79 1088 619 (ldf)
- 10 1078 | 17 1731 019 | 17 1735 | 23 0829 0006

- 72 1078 618 (L)
- 76 1078 618 (L)
- 79 1088 618 (L)



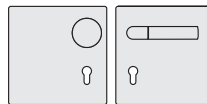
- 72 1078 603 (R)
- 76 1078 603 (R)
- 76 1078 605 (ldf)
- 79 1088 603 (R)
- 79 1088 605 (ldf)
- 10 1078 | 14 1450 018 | 19 1963 003

- 72 1078 604 (L)
- 76 1078 604 (L)
- 79 1088 604 (L)



- 72 1078 623 (R)
- 76 1078 623 (R)
- 76 1078 625 (ldf)
- 79 1088 623 (R)
- 79 1088 625 (ldf)
- 10 1078 | 14 1410 018 | 19 1970 003

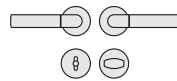
- 72 1078 624 (L)
- 76 1078 624 (L)
- 79 1088 624 (L)



- 72 1078 035 (R)
- 76 1078 035 (R)
- 79 1088 035 (R)
- 10 1078 | 14 1488 0.. | 19 1994 0..

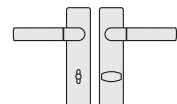
- 72 1078 036 (L)
- 76 1078 036 (L)
- 79 1088 036 (L)

WC fittings



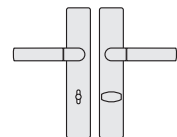
- 72 1078 619 (R)
- 10 1078 | 17 1731 018 | 17 1735 00054

- 72 1078 620 (L)



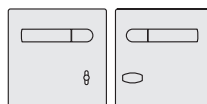
- 72 1078 605 (R)
- 10 1078 | 14 1450 01854

- 72 1078 606 (L)



- 72 1078 625 (R)
- 10 1078 | 14 1410 01854

- 72 1078 626 (L)



- 72 1078 039 (R)
- 10 1078 | 14 1488 0..54

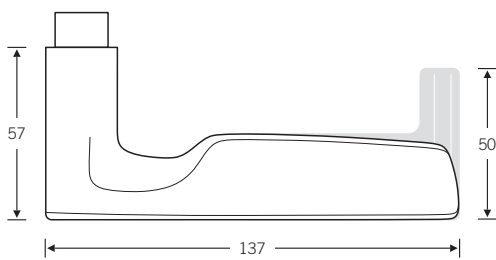
- 72 1078 040 (L)

Window handles

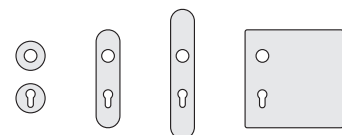


- 34 1078 008 (heavy-duty version)
- 34 1078 007 (low-profile rose)
- 34 1078 170 (locking adapter)
- 34 1078 076 (ditto with pushbutton)

Helmut Jahn and Yorgo Lykouria approached handle design without any preconceptions whatsoever. They freed their minds from the constraints of industrial production processes and sought a shape that combines geometrical elements with ergonomic needs. The result is a genuine innovation for a hand-held shape.



Recommended rose and backplate variants

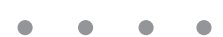


Design: Helmut Jahn,
Yorgo Lykouria

 EN 179 model: FSB 1094

* with restrictions depending on design

surface mount



flush mount*



isis® systems



Glass door fitting



Standard



isis® systems



13 4223 with 72 1093 | Page 472f.

Frame door handles



Standard



isis® systems



09 1093 (straight) | Page 419

06 1093 (offset) | Page 418

Door knobs



Solid doors



Frame doors



23 0802 (for solid doors) | Page 304

07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL



Rose, low profile



Lockable



34 1093 | Page 332

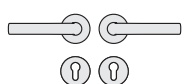
Additional items for the handle system:








Barrier-free fitting 14 424. | Page 627

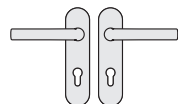
Additional items for large buildings:








isis® access management | Page 43f.
 SSF tubular frame locks with through
 screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.

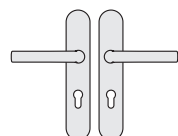
Door handle fittings










-  72 1093 613 (R)
-  76 1093 613 (R)
-  79 1094 613 (R)
-  10 1093 | 17 1731 018 | 17 1735
-  72 1093 614 (L)
-  76 1093 614 (L)
-  79 1094 614 (L)








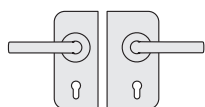
-  72 1093 607 (R)
-  76 1093 607 (R)
-  79 1094 607 (R)
-  72 1093 608 (L)
-  76 1093 608 (L)
-  79 1094 608 (L)
-  10 1093 | 14 1451 018





-  72 1093 627 (R)
-  76 1093 627 (R)
-  79 1094 627 (R)
-  72 1093 628 (L)
-  76 1093 628 (L)
-  79 1094 628 (L)
-  10 1093 | 14 1418 018

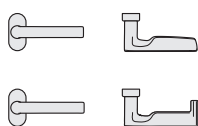





-  72 1093 033 (R)
-  76 1093 033 (R)
-  72 1093 034 (L)
-  76 1093 034 (L)
-  10 1093 | 14 1488 003

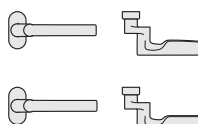




-  13 4223 042 (R) with 72 1093 61350 (R)
-  13 4223 041 (R) with 10 1093 00100
-  13 4223 052 (L) with 72 1093 61450 (L)
-  13 4223 051 (L) with 10 1093 00100

Frame door handles




-  09 1093 011
-  09 1093 012
-  09 1094 012





-  06 1093 011
-  06 1093 012
-  06 1094 012
-  06 1093 023 (ldf)
-  06 1094 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)



- 17 1757

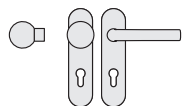
R = DIN right hand
 L = DIN left hand
 ldf = inactive door fitting

Entrance door fittings



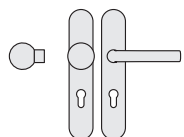
- 72 1093 615 (R)
- 76 1093 615 (R)
- 76 1093 619 (ldf)
- 79 1094 615 (R)
- 79 1094 619 (ldf)
- 10 1093 | 17 1731 019 | 17 1735 | 23 0802 0006

- 72 1093 616 (L)
- 76 1093 616 (L)
- 79 1094 616 (L)



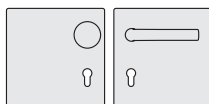
- 72 1093 609 (R)
- 76 1093 609 (R)
- 76 1093 611 (ldf)
- 79 1094 609 (R)
- 79 1094 611 (ldf)
- 10 1093 | 14 1451 018 | 19 1964 003

- 72 1093 610 (L)
- 76 1093 610 (L)
- 79 1094 610 (L)



- 72 1093 629 (R)
- 76 1093 629 (R)
- 76 1093 631 (ldf)
- 79 1094 629 (R)
- 79 1094 631 (ldf)
- 10 1093 | 14 1418 018 | 19 1927 003

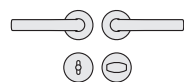
- 72 1093 630 (L)
- 76 1093 630 (L)
- 79 1094 630 (L)



- 72 1093 037 (R)
- 76 1093 037 (R)
- 10 1093 | 14 1488 0.. | 19 1990 0..

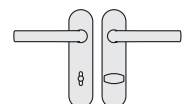
- 72 1093 038 (L)
- 76 1093 038 (L)

WC fittings



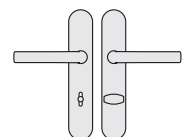
- 72 1093 619 (R)
- 10 1093 | 17 1731 018 | 17 1735 00054

- 72 1093 620 (L)



- 72 1093 611 (R)
- 10 1093 | 14 1451 01854

- 72 1093 612 (L)



- 72 1093 631 (R)
- 10 1093 | 14 1418 01854

- 72 1093 632 (L)



- 72 1093 039 (R)
- 10 1093 | 14 1488 0..54

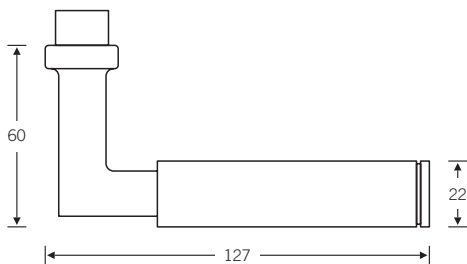
- 72 1093 040 (L)

Window handles

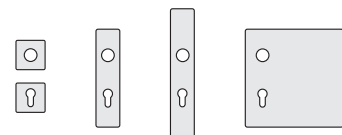


- 34 1093 008 (heavy-duty version)
- 34 1093 007 (low-profile rose)
- 34 1093 170 (locking adapter)
- 34 1093 076 (ditto with pushbutton)

FSB 1102 is rooted in Alessandro Mendini's redesign of the celebrated Gropius handle by choosing a different material and adding a groove during one of our design workshops. Owing to the popularity of this design, we now supply FSB 1102 in four materials. For heavily used doors we would recommend using the rugged stainless steel version.



Recommended rose and backplate variants



Design: Alessandro Mendini In aluminium, only available in a natural anodised finish (FSB 0105)

Material versions see page 187

* with restrictions depending on design

surface mount	●	●	●
flush mount*	●	●	●
isis® systems	○	○	

Glass door fitting



Standard	●
isis® systems	●

13 4224 with 10 1102 | Page 468f.

Glass door fittings not in bronze and brass

Frame door handles



Standard	●	●
----------	---	---

09 1102 (straight)

Door knobs



Solid doors	●	●	●
-------------	---	---	---

Frame doors	●	●
-------------	---	---

23 0811 (for solid doors) | Page 305
07 0812 (for frame doors) | Page 430

Window handle



Standard, RAL	●
---------------	---

Rose, low profile	●
-------------------	---

Lockable	●
----------	---

34 1102 | Page 332

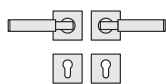
Additional items for the handle system:






Lifting/sliding door fitting 34 1102 011.. | Page 358f.
Door pull 66 6546 | Page 513
Barrier-free fitting 14 424. | Page 627

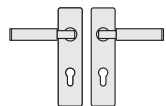
Additional items for large buildings:






isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

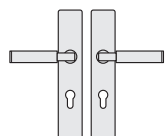
Door handle fittings



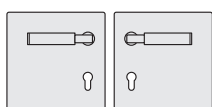
-  72 1102 641 (R)
-  72 1102 642 (L)
-  76 1102 639 (R)
-  76 1102 640 (L)
-  10 1102 | 17 1703 018 | 17 1704








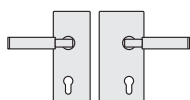
-  72 1102 601 (R)
-  72 1102 602 (L)
-  76 1102 601 (R)
-  76 1102 602 (L)
-  10 1102 | 14 1450 018



-  72 1102 621 (R)
-  72 1102 622 (L)
-  76 1102 621 (R)
-  76 1102 622 (L)
-  10 1102 | 14 1410 018





-  72 1102 033 (R)
-  72 1102 034 (L)
-  76 1102 033 (R)
-  76 1102 034 (L)
-  10 1102 | 14 1488 003



-  13 4224 042 (R) with 10 1102 00300
-  13 4224 052 (L) with 10 1102 00300



Frame door handles





-  09 1102 071
-  09 1102 072

Frame door knobs



- 07 0811 229 (fixed)
-  07 0811 229 (fixed, stainless steel & bronze)
-  07 0811 429 (fixed, aluminium)



- 07 0812 229 (fixed)
-  07 0812 229 (fixed, stainless steel & bronze)
-  07 0812 429 (fixed, aluminium)

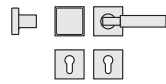


- 17 1778

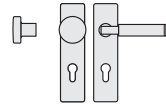
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Heavy-duty and fire safety fittings not in brass
Glass door fittings not in bronze and brass
Wide back-plate fittings in bronze on request
Fire safety fittings only in stainless steel and bronze

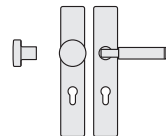
Entrance door fittings



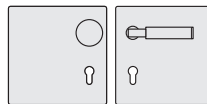
- ↻ 72 1102 643 (R) ↻ 72 1102 644 (L)
- ↻ 76 1102 641 (R) ↻ 76 1102 642 (L)
- ↻ 76 1102 643 (ldf)
- ↻ 10 1102 | 17 1703 019 | 17 1704 | 23 0811 00026



- ↻ 72 1102 603 (R) ↻ 72 1102 604 (L)
- ↻ 76 1102 603 (R) ↻ 76 1102 604 (L)
- ↻ 76 1102 605 (ldf)
- ↻ 10 1102 | 14 1450 018 | 19 1963 003

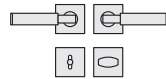


- ↻ 72 1102 623 (R) ↻ 72 1102 624 (L)
- ↻ 76 1102 623 (R) ↻ 76 1102 624 (L)
- ↻ 76 1102 625 (ldf)
- ↻ 10 1102 | 14 1410 018 | 19 1970 003

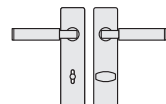


- ↻ 72 1102 037 (R) ↻ 72 1102 038 (L)
- ↻ 76 1102 037 (R) ↻ 76 1102 038 (L)
- ↻ 10 1102 | 14 1488 0.. | 19 1994 0..

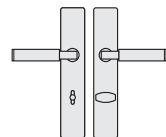
WC fittings



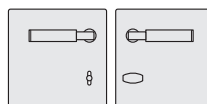
- ↻ 72 1102 645 (R) ↻ 72 1102 646 (L)
- ↻ 10 1102 | 17 1703 018 | 17 1704 00054



- ↻ 72 1102 605 (R) ↻ 72 1102 606 (L)
- ↻ 10 1102 | 14 1450 01854



- ↻ 72 1102 625 (R) ↻ 72 1102 626 (L)
- ↻ 10 1102 | 14 1410 01854



- ↻ 72 1102 039 (R) ↻ 72 1102 040 (L)
- ↻ 10 1102 | 14 1488 0..54

Window handles

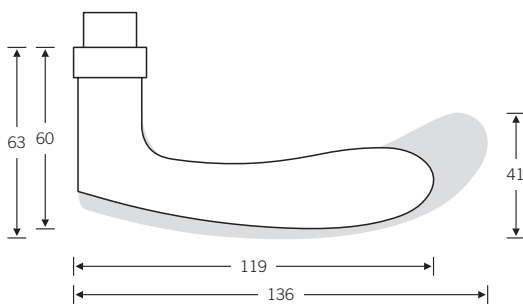


- 34 1102 068 (heavy-duty version)
- 34 1102 067 (low-profile rose)
- 34 1102 170 (locking adapter)
- 34 1102 076 (ditto with pushbutton)

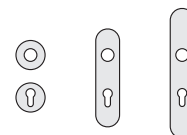
Material version (please state when ordering):

- completely aluminium
- elbow/rose aluminium, grip section black plastic
- completely stainless steel
- elbow/rose stainless steel, grip section black plastic
- completely brass
- completely bronze

The FSB 1106 is characterised by its traditional style together with the variety of classic fitting hardware metals. FSB 1106 is based on its little brother 1135. Technically, it has been adapted to meet the requirements for the AGL® and AGL® FS heavy-duty fittings with the FSB compensating bearing. The version to EN 179 is new.



Recommended rose and backplate variants







EN 179

Design: Christoph Mäckler

 EN 179 model: FSB 1043

Wide back-plate fittings on request

* with restrictions depending on design

				
surface mount	●	●	●	●
flush mount*	●	●	●	
isis® systems	○	○	○	

Glass door fitting



Standard



isis® systems



13 4223 with 72 1106 | Page 472f.

Glass door fittings not in bronze and brass

Frame door handles



Standard



isis® systems



09 1043 (straight) | Page 413

06 1043 (offset) | Page 412

Door knobs



Solid doors



Frame doors



23 0802 (for solid doors) | Page 304

07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL



Rose, low profile



Lockable



34 1106 | Page 333

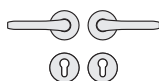
Additional items for the handle system:








Barrier-free fitting 14 424. | Page 627

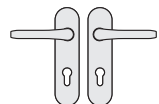
Additional items for large buildings:




isis® access management | Page 43f.
 SSF tubular frame locks with through
 screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.

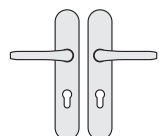
Door handle fittings










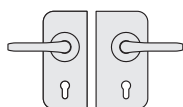
-  72 1106 613 (R)
-  72 1106 614 (L)
-  76 1106 613 (R)
-  76 1106 614 (L)
-  79 1043 613 (R)
-  79 1043 614 (L)
-  10 1106 | 17 1731 018 | 17 1735











-  72 1106 607 (R)
-  72 1106 608 (L)
-  76 1106 607 (R)
-  76 1106 608 (L)
-  79 1043 607 (R)
-  79 1043 608 (L)
-  10 1106 | 14 1451 018






-  72 1106 627 (R)
-  72 1106 628 (L)
-  76 1106 627 (R)
-  76 1106 628 (L)
-  79 1043 627 (R)
-  79 1043 628 (L)
-  10 1106 | 14 1418 018

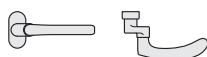


-  13 4223 042 (R) with
-  72 1106 61350 (R)
-  13 4223 041 (R) with
-  10 1106 00100
-  13 4223 052 (L) with
-  72 1106 61450 (L)
-  13 4223 051 (L) with
-  10 1106 00100

Frame door handles





-  09 1106 011
-  09 1106 012
-  09 1043 012





-  06 1043 011
-  06 1043 012
-  06 1043 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel & bronze)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel & bronze)
-  07 0846 428 (fixed, aluminium)

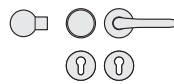


- 17 1757

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

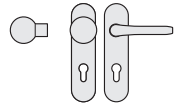
Heavy-duty and fire safety fittings not in brass
Glass door fittings not in bronze and brass

Entrance door fittings



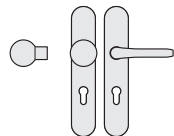
- 72 1106 615 (R)
- 76 1106 615 (R)
- 76 1106 619 (ldf)
- 79 1043 615 (R)
- 79 1043 619 (ldf)
- 10 1106 | 17 1731 019 | 17 1735 | 23 0802 0006

- 72 1106 616 (L)
- 76 1106 616 (L)
- 79 1043 616 (L)



- 72 1106 609 (R)
- 76 1106 609 (R)
- 76 1106 611 (ldf)
- 79 1043 609 (R)
- 79 1043 611 (ldf)
- 10 1106 | 14 1451 018 | 19 1964 003

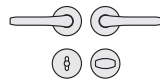
- 72 1106 610 (L)
- 76 1106 610 (L)
- 79 1043 610 (L)



- 72 1106 629 (R)
- 76 1106 629 (R)
- 76 1106 631 (ldf)
- 79 1043 629 (R)
- 79 1043 631 (ldf)
- 10 1106 | 14 1418 018 | 19 1927 003

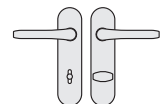
- 72 1106 630 (L)
- 76 1106 630 (L)
- 79 1043 630 (L)

WC fittings



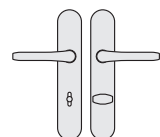
- 72 1106 619 (R)
- 10 1106 | 17 1731 018 | 17 1735 00054

- 72 1106 620 (L)



- 72 1106 611 (R)
- 10 1106 | 14 1451 01854

- 72 1106 612 (L)



- 72 1106 631 (R)
- 10 1106 | 14 1418 01854

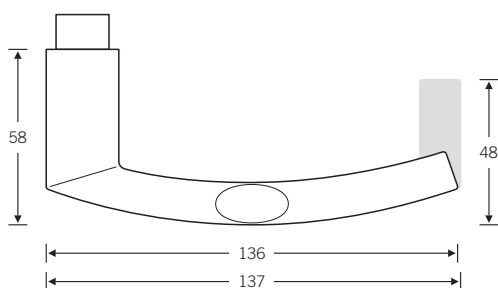
- 72 1106 632 (L)

Window handles

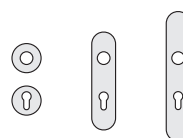


- 34 1106 008 (heavy-duty version)
- 34 1106 007 (low-profile rose)
- 34 1106 170 (locking adapter)
- 34 1106 076 (ditto with pushbutton)

FSB 1107 is related to FSB 1108. FSB's in-house designer Hartmut Weise has imbued his "Brakel Lightweight" with the curve of a door in motion. Matching the door handles for frame doors, it was not a long wait for the return version of the FSB 1177 model.



Recommended rose and backplate variants



EN 179

Design: Hartmut Weise

 EN 179 model: FSB 1177

Wide back-plate fittings on request

* with restrictions depending on design

surface mount



flush mount*



isis® systems



Glass door fitting



Standard	●	●
isis® systems	●	

13 4223 with 72 1107 | Page 472f.

Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1177 (straight) | Page 419
06 1177 (offset) | Page 418

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0802 (for solid doors) | Page 304
07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1107 | Page 333

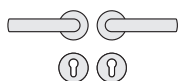
Additional items for the handle system:








Door pulls 66 6535/36/37/38 | Page 509f.
Door pull 66 6542 | Page 513
XXL door handle 76 1052 | Page 626
Barrier-free fitting 14 424. | Page 627

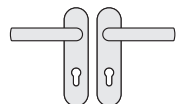
Additional items for large buildings:








isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

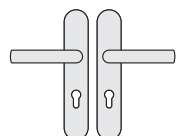
Door handle fittings










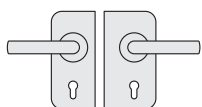
-  72 1107 613 (R)
-  72 1107 614 (L)
-  76 1107 613 (R)
-  76 1107 614 (L)
-  79 1177 613 (R)
-  79 1177 614 (L)
-  10 1107 | 17 1731 018 | 17 1735






-  72 1107 607 (R)
-  72 1107 608 (L)
-  76 1107 607 (R)
-  76 1107 608 (L)
-  79 1177 607 (R)
-  79 1177 608 (L)
-  10 1107 | 14 1451 018

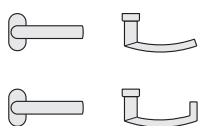





-  72 1107 627 (R)
-  72 1107 628 (L)
-  76 1107 627 (R)
-  76 1107 628 (L)
-  79 1177 627 (R)
-  79 1177 628 (L)
-  10 1107 | 14 1418 018

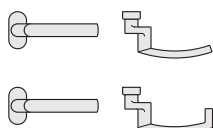



-  13 4223 042 (R) with 72 1107 61350 (R)
-  13 4223 052 (L) with 72 1107 61450 (L)
-  13 4223 041 (R) with 10 1107 00100
-  13 4223 051 (L) with 10 1107 00100

Frame door handles





-  09 1107 011
-  09 1107 012
-  09 1177 012



-  06 1107 011
-  06 1107 012
-  06 1177 012
-  06 1107 023 (ldf)
-  06 1177 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)



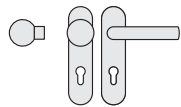
- 17 1757

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

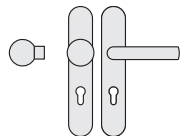
Entrance door fittings



- 72 1107 615 (R)
- 76 1107 615 (R)
- 76 1107 619 (ldf)
- 79 1177 615 (R)
- 79 1177 619 (ldf)
- 10 1107 | 17 1731 019 | 17 1735 | 23 0802 0006
- 72 1107 616 (L)
- 76 1107 616 (L)
- 79 1177 616 (L)

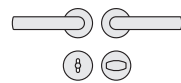


- 72 1107 609 (R)
- 76 1107 609 (R)
- 76 1107 611 (ldf)
- 79 1177 609 (R)
- 79 1177 611 (ldf)
- 10 1107 | 14 1451 018 | 19 1964 003
- 72 1107 610 (L)
- 76 1107 610 (L)
- 79 1177 610 (L)

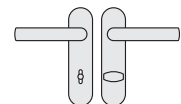


- 72 1107 629 (R)
- 76 1107 629 (R)
- 76 1107 631 (ldf)
- 79 1177 629 (R)
- 79 1177 631 (ldf)
- 10 1107 | 14 1418 018 | 19 1927 003
- 72 1107 630 (L)
- 76 1107 630 (L)
- 79 1177 630 (L)

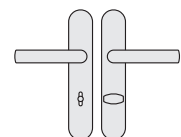
WC fittings



- 72 1107 619 (R)
- 10 1107 | 17 1731 018 | 17 1735 00054
- 72 1107 620 (L)



- 72 1107 611 (R)
- 10 1107 | 14 1451 01854
- 72 1107 612 (L)



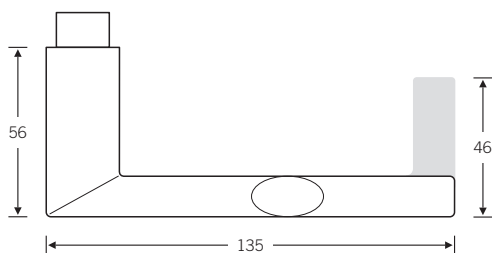
- 72 1107 631 (R)
- 10 1107 | 14 1418 01854
- 72 1107 632 (L)

Window handles

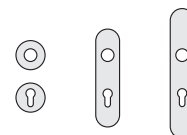


- 34 1107 008 (heavy-duty version)
- 34 1107 007 (low-profile rose)
- 34 1107 170 (locking adapter)
- 34 1107 076 (ditto with pushbutton)

FSB's in-house designer Hartmut Weise was wondering what it is that gives the "Frankfurt Model" and "Wittgenstein's Handle" their particular appeal. He jotted down the words "unpretentious presence". He then produced a plain design that was at the very least on a par with them. The FSB 1108, a round tube combined with a mitred, oval grip section. The "Brakel Model"?



Recommended rose and backplate variants



EN 179

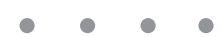
Design: Hartmut Weise

 EN 179 model: FSB 1178

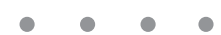
Wide back-plate fittings on request

* with restrictions depending on design

surface mount



flush mount*



isis® systems



Glass door fitting



Standard	●	●
isis® systems		●

13 4223 with 72 1108 | Page 472f.

Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1178 (straight) | Page 421
06 1178 (offset) | Page 420

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0802 (for solid doors) | Page 304
07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1108 | Page 334

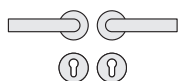
Additional items for the handle system:








- Door pulls 66 6535/36/37/38 | Page 509f.
- Door pull 66 6542 | Page 513
- Barrier-free fitting 14 424. | Page 627

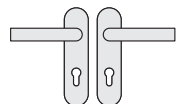
Additional items for large buildings:


- isis® access management | Page 43f.
- SSF tubular frame locks with through screw fixing option | Page 406
- Barrier-free ErgoSystem® | Page 629f.

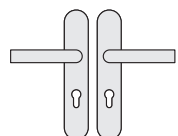
Door handle fittings










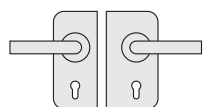
-  72 1108 613 (R)
-  72 1108 614 (L)
-  76 1108 613 (R)
-  76 1108 614 (L)
-  79 1178 613 (R)
-  79 1178 614 (L)
-  10 1108 | 17 1731 018 | 17 1735











-  72 1108 607 (R)
-  72 1108 608 (L)
-  76 1108 607 (R)
-  76 1108 608 (L)
-  79 1178 607 (R)
-  79 1178 608 (L)
-  10 1108 | 14 1451 018

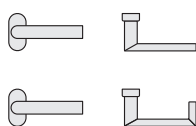





-  72 1108 627 (R)
-  72 1108 628 (L)
-  76 1108 627 (R)
-  76 1108 628 (L)
-  79 1178 627 (R)
-  79 1178 628 (L)
-  10 1108 | 14 1418 018

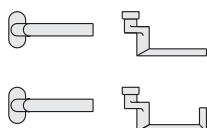


-  13 4223 042 (R) with
-  13 4223 052 (L) with
-  72 1108 61350 (R)
-  72 1108 61450 (L)
-  13 4223 041 (R) with
-  13 4223 051 (L) with
-  10 1108 00100
-  10 1108 00100

Frame door handles



-  09 1108 011
-  09 1108 012
-  09 1178 012





-  06 1108 011
-  06 1108 012
-  06 1178 012
-  06 1108 023 (ldf)
-  06 1178 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)



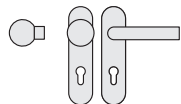
- 17 1757

R = DIN right hand
 L = DIN left hand
 ldf = inactive door fitting

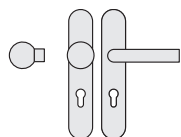
Entrance door fittings



- 72 1108 615 (R)
- 76 1108 615 (R)
- 76 1108 619 (ldf)
- 79 1178 615 (R)
- 79 1178 619 (ldf)
- 10 1108 | 17 1731 019 | 17 1735 | 23 0802 0006
- 72 1108 616 (L)
- 76 1108 616 (L)
- 79 1178 616 (L)

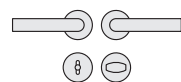


- 72 1108 609 (R)
- 76 1108 609 (R)
- 76 1108 611 (ldf)
- 79 1178 609 (R)
- 79 1178 611 (ldf)
- 10 1108 | 14 1451 018 | 19 1964 003
- 72 1108 610 (L)
- 76 1108 610 (L)
- 79 1178 610 (L)

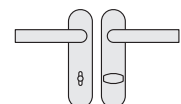


- 72 1108 629 (R)
- 76 1108 629 (R)
- 76 1108 631 (ldf)
- 79 1178 629 (R)
- 79 1178 631 (ldf)
- 10 1108 | 14 1418 018 | 19 1927 003
- 72 1108 630 (L)
- 76 1108 630 (L)
- 79 1178 630 (L)

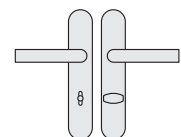
WC fittings



- 72 1108 619 (R)
- 10 1108 | 17 1731 018 | 17 1735 00054
- 72 1108 620 (L)



- 72 1108 611 (R)
- 10 1108 | 14 1451 01854
- 72 1108 612 (L)



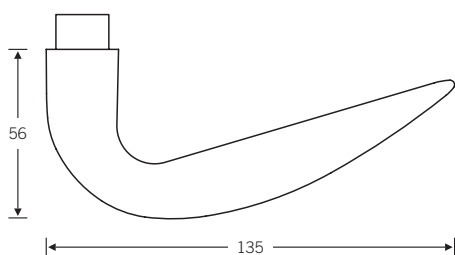
- 72 1108 631 (R)
- 10 1108 | 14 1418 01854
- 72 1108 632 (L)

Window handles



- 34 1108 008 (heavy-duty version)
- 34 1108 007 (low-profile rose)
- 34 1108 170 (locking adapter)
- 34 1108 076 (ditto with pushbutton)

“PS2” – as Philippe Starck called it – came from the idea of spraying an aluminium core with transparent plastic. The difficulty of recycling the combination of materials made us reject the concept at the time. Now we know: the core – FSB 1111 – has outlived trends. It is made 100% of recyclable aluminium.



Recommended rose and backplate variants

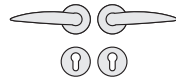


Design: Philippe Starck

surface mount

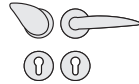


Door handle fitting



↶ 10 1111 | 17 1731 018 | 17 1735

Entrance door fitting

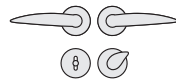


↶ 10 1111 00004 | 17 1731 019 | 17 1735 with
23 0839 005 (R)

↶ 10 1111 00005 | 17 1731 019 | 17 1735 with
23 0839 004 (L)

3a

WC fitting



↶ 10 1111 00004 | 17 1731 018 | 17 1735 04354 (R)

↶ 10 1111 00005 | 17 1731 018 | 17 1735 05354 (L)

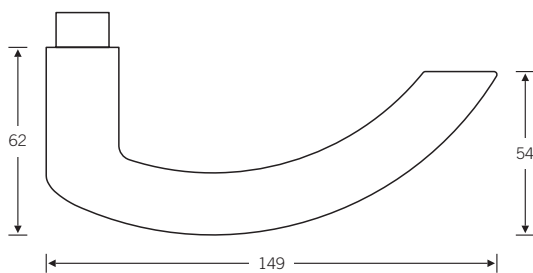
Window handle



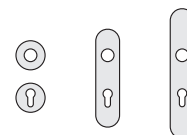
34 1111 008 | Page 334

R = DIN right hand
L = DIN left hand

FSB 1119 incorporates insights gained by FSB in cooperation with the Fraunhofer Institute (FSB 1155). Whilst utmost importance was given to the rigorous implementation of ergonomic parameters when producing the FSB 1155, for the FSB 1119 formal aesthetic considerations took precedence.



Recommended rose and backplate variants



EN 179

Design: Hartmut Weise

Wide back-plate fittings on request

* with restrictions depending on design

surface mount



flush mount*



isis® systems



Glass door fitting



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>

13 4223 with 72 1119 | Page 472f.

Frame door handles



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>

09 1119 (straight) | Page 421
06 1119 (offset) | Page 420

Door knobs



Solid doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Frame doors	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

23 0802 (for solid doors) | Page 304
07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	<input checked="" type="radio"/>
Rose, low profile	<input checked="" type="radio"/>
Lockable	<input checked="" type="radio"/>

34 1107 | Page 333

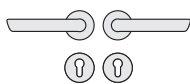
Additional items for the handle system:

Barrier-free fitting 14 424. | Page 627

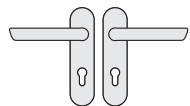
Additional items for large buildings:

isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

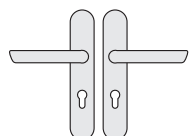
Door handle fittings







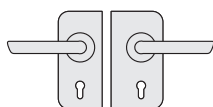
-  72 1119 613 (R)
-  72 1119 614 (L)
-  79 1119 613 (R)
-  79 1119 614 (L)
-  10 1119 00004 | 17 1731 018 | 17 1735



-  72 1119 607 (R)
-  72 1119 608 (L)
-  79 1119 607 (R)
-  79 1119 608 (L)
-  10 1119 00004 | 14 1451 018



-  72 1119 627 (R)
-  72 1119 628 (L)
-  79 1119 627 (R)
-  79 1119 628 (L)
-  10 1119 00004 | 14 1418 018



-  13 4223 042 (R) with 72 1119 61350 (R)
-  13 4223 052 (L) with 72 1119 61450 (L)
-  13 4223 041 (R) with 10 1119 00101 (R)
-  13 4223 051 (L) with 10 1119 0102 (L)

Frame door handles





-  09 1119 01144 (R)
-  09 1119 01145 (L)
-  09 1119 01264 (R)
-  09 1119 01265 (L)





-  06 1119 01144 (R)
-  06 1119 01145 (L)
-  06 1119 01264 (R)
-  06 1119 01265 (L)
-  06 1119 02364 (Sfg, R)
-  06 1119 02365 (Sfg, L)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel & bronze)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel & bronze)
-  07 0846 428 (fixed, aluminium)

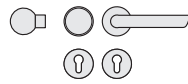


17 1757

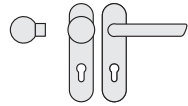
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Glass door fittings not in bronze

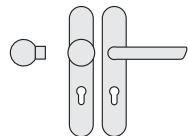
Entrance door fittings



- 72 1119 615 (R) 72 1119 616 (L)
- 79 1119 615 (R) 79 1119 616 (L)
- 79 1119 619 (Sfg,R) 79 1119 620 (Sfg,L)
- 10 1119 00004 (R) | 10 1119 00005 (L) with
17 1731 019 | 17 1735 | 23 0802 00006

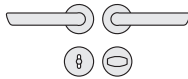


- 72 1119 609 (R) 72 1119 610 (L)
- 79 1119 609 (R) 79 1119 610 (L)
- 79 1119 611 (Sfg,R) 79 1119 612 (Sfg,L)
- 10 1119 00004 (R) | 10 1119 00005 (L) with
14 1451 018 | 19 1964 003

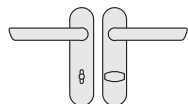


- 72 1119 623 (R) 72 1119 624 (L)
- 79 1119 629 (R) 79 1119 630 (L)
- 79 1119 631 (Sfg,R) 79 1119 632 (Sfg,L)
- 10 1119 00004 (R) | 10 1119 00005 (L) with
14 1418 018 | 19 1927 003

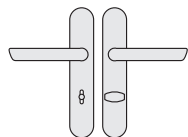
WC fittings



- 72 1119 619 (R) 72 1119 620 (L)
- 10 1119 | 17 1731 018 | 17 1735 00054



- 72 1119 611 (R) 72 1119 612 (L)
- 10 1119 | 14 1451 01854



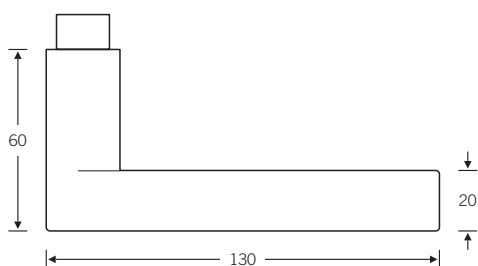
- 72 1119 631 (R) 72 1119 632 (L)
- 10 1119 | 14 1418 01854

Window handles

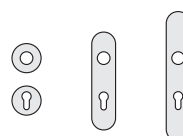


- 34 1107 008 (heavy-duty version)
- 34 1107 007 (low-profile rose)
- 34 1107 170 (locking adapter)
- 34 1107 076 (ditto with pushbutton)

Miguel Milà's idea that we make a door handle from a flat stainless steel strip reminded us of familiar shapes from Wagenfeld and his followers. But our research revealed that, with his curved grip section, the Spaniard Milà had created a hitherto unknown impression.



Recommended rose and backplate variants

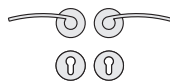


Design: Miguel Milà

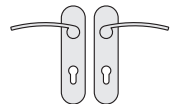
surface mount ●

flush mount ●

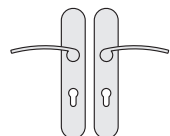
Door handle fittings



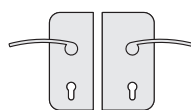
☞ 10 1126 | 17 1731 018 | 17 1735



☞ 10 1126 | 14 1451 018



☞ 10 1126 | 14 1418 018

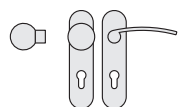


☞ 13 4223 041 (R) with 10 1126 00101 (R) ☞ 13 4223 051 (L) with 10 1126 00102 (L)

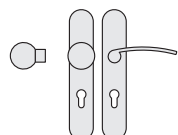
Entrance door fittings



☞ 10 1126 00004 (R) | 10 1126 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

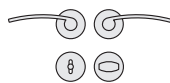


☞ 10 1126 00004 (R) | 10 1126 00005 (L) with 14 1451 018 | 19 1964 003

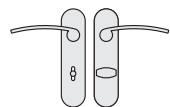


☞ 10 1126 00004 (R) | 10 1126 00005 (L) with 14 1418 018 | 19 1927 003

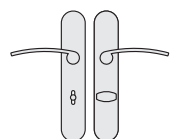
WC fittings



☞ 10 1126 | 17 1731 018 | 17 1735 00054



☞ 10 1126 | 14 1451 01854

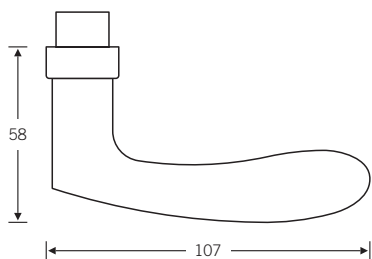


☞ 10 1126 | 14 1418 01854

R = DIN right hand
L = DIN left hand

3a

The special attraction of this door handle is its traditional style. Together with the emphatically technical appearance of its backplate, this fitting represents a no-frills style element for any door. Also available as a heavy-duty version, is the FSB 1106 in the classic FSB metals (see page 188).



Recommended rose and backplate variants

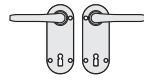


Design: Christoph Mäckler

surface mount

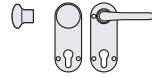


Door handle fitting



↳ 10 1135 | 14 1425 000

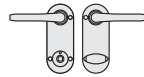
Entrance door fitting



↳ 10 1135 | 14 1425 000 | 19 1925 000

3a

WC fitting



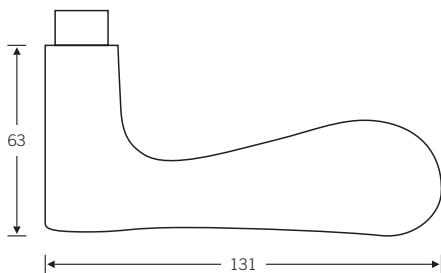
↳ 10 1135 | 14 1425 07554

Window handle

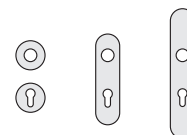


34 1135 | Page 335

The FSB 1144 door handle is as pleasing to the eye as to the hand. Designer Jasper Morrison lets our eyes know that this door handle is a manual tool. Your eyes relax and your hand takes over. Your thumb finds its place, your forefinger finds its hollow and your hand finds plenty to get hold of. This is precisely what the “Four-Point Guide to Good Grip” drawn up by FSB and Otl Aicher requires.



Recommended rose and backplate variants



Design: Jasper Morrison

* with restrictions depending on design

surface mount



flush mount*



isis® systems



Glass door fitting



Standard	●	●
isis® systems		●

13 4223 with 72 1144 | Page 472f.

Frame door handles



Standard	●	●
isis® systems	●	●

09 1144 (straight) | Page 423
06 1144 (offset) | Page 422

Door knob



Solid doors	●	●	●
-------------	---	---	---

23 0844 (for solid doors) | Page 308

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1144 | Page 335

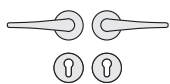
Additional items for the handle system:

- Hat hooks 36 3650 | Page 389
- Furniture knob 36 3654 | Page 389
- Barrier-free fitting 14 424. | Page 627

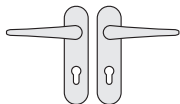
Additional items for large buildings:

- isis® access management | Page 43f.
- SSF tubular frame locks with through screw fixing option | Page 406
- Barrier-free ErgoSystem® | Page 629f.

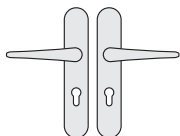
Door handle fittings



-  72 1144 613 (R)
-  72 1144 614 (L)
-  76 1144 613 (R)
-  76 1144 614 (L)
-  10 1144 | 17 1731 018 | 17 1735







-  10 1144 | 14 1451 018





-  10 1144 | 14 1418 018



-  13 4223 042 (R) with 72 1144 61350 (R)
-  13 4223 052 (L) with 72 1144 61450 (L)
-  13 4223 041 (R) with 10 1144 00100
-  13 4223 051 (L) with 10 1144 00100

Frame door handles




-  09 1144 011
-  09 1144 012



-  06 1144 011
-  06 1144 012
-  06 1144 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



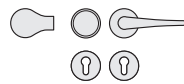
- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)



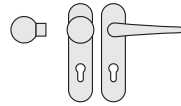
- 17 1757

R = DIN right hand
 L = DIN left hand
 ldf = inactive door fitting

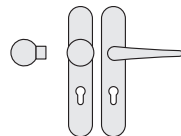
Entrance door fittings



72 1144 615 (R) 72 1144 616 (L)
76 1144 615 (R) 76 1144 616 (L)
76 1144 619 (ldf)
10 1144 | 17 1731 019 | 17 1735 | 23 0844 00006

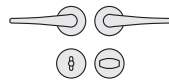


10 1144 | 14 1451 018 | 19 1964 003

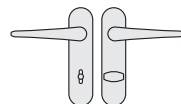


10 1144 | 14 1418 018 | 19 1927 003

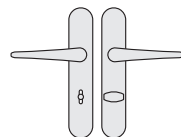
WC fittings



72 1144 619 (R) 72 1144 620 (L)
10 1144 | 17 1731 018 | 17 1735 00054



10 1144 | 14 1451 01854



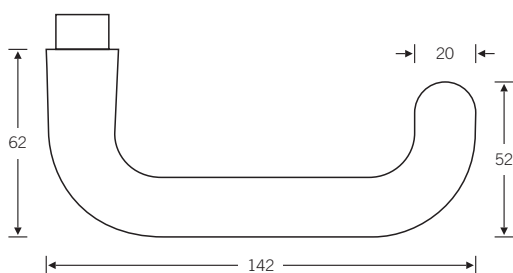
10 1144 | 14 1418 01854

Window handles

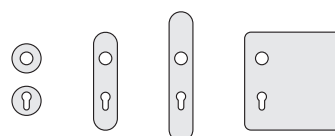


34 1144 008 (heavy-duty version)
34 1144 007 (low-profile rose)
34 1144 170 (locking adapter)
34 1144 076 (ditto with pushbutton)

In the early 1990s we gave the plain round rod of the stable-door handle a going over. The shank was conically widened and a hemispherical tip was added to the bent end. Two small but important special features that have given the FSB 1146 model a character all of its own.



Recommended rose and backplate variants



EN 179

* with restrictions depending on design
 ** isis Systeme nicht in Messing

surface mount	●	●	●
flush mount*	●	●	●
isis® systems**		●	●

Glass door fitting



Standard	●	●
isis® systems		●

13 4223 with 72 1146 | Page 472f.

Glass door fittings not in brass

Frame door handles



Standard	●	●
isis® systems	●	●

09 1146 (straight) | Page 423

06 1146 (offset) | Page 422

Door knobs



Solid doors ● ● ●

Frame doors ● ●

23 0802 (for solid doors) | Page 304

07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL ●

Rose, low profile ●

Lockable ●

34 1146 | Page 336

Additional items for the handle system:

Fitting lifting/sliding doors 34 1146 012.. | Page 354f.

Lifting/sliding door fitting 34 1146 011.. | Page 357f.

Door pull 66 6602 | Page 518

Door pull 66 6662 | Page 535

XXL door handle 79 1090 | Page 626

Barrier-free fitting 14 424. | Page 627

Additional items for large buildings:

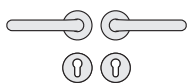
isis® access management | Page 43f.

SSF tubular frame locks with through

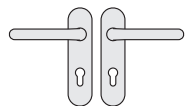
screw fixing option | Page 406






Barrier-free ErgoSystem® | Page 629f.

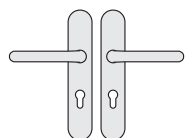
Door handle fittings








-  72 1146 613 (R)
-  72 1146 614 (L)
-  79 1146 613 (R)
-  79 1146 614 (L)
-  10 1146 | 17 1731 018 | 17 1735




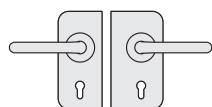
-  72 1146 607 (R)
-  72 1146 608 (L)
-  79 1146 607 (R)
-  79 1146 608 (L)
-  10 1146 | 14 1451 018







-  72 1146 627 (R)
-  72 1146 628 (L)
-  79 1146 627 (R)
-  79 1146 628 (L)
-  10 1146 | 14 1418 018





-  72 1146 033 (R)
-  72 1146 034 (L)
-  79 1146 033 (R)
-  79 1146 034 (L)
-  10 1146 | 14 1488 003




-  13 4223 042 (R) with 72 1146 61350 (R)
-  13 4223 052 (L) with 72 1146 61450 (L)
-  13 4223 041 (R) with 10 1146 00100
-  13 4223 051 (L) with 10 1146 00100

Frame door handles





-  09 1146 011
-  09 1146 012



-  06 1146 011
-  06 1146 012
-  06 1146 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)

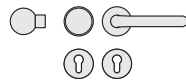


- 17 1757

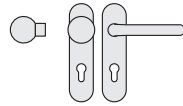
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Heavy-duty, fire safety and glass door fittings
not in brass

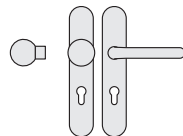
Entrance door fittings



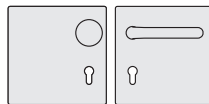
- ↻ 72 1146 615 (R) ↻ 72 1146 616 (L)
- ↻ 79 1146 615 (R) ↻ 79 1146 616 (L)
- ↻ 79 1146 619 (ldf)
- ↻ 10 1146 | 17 1731 019 | 17 1735 | 23 0802 00006



- ↻ 72 1146 609 (R) ↻ 72 1146 610 (L)
- ↻ 79 1146 609 (R) ↻ 79 1146 610 (L)
- ↻ 79 1146 611 (ldf)
- ↻ 10 1146 | 14 1451 018 | 19 1964 003

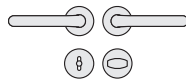


- ↻ 72 1146 629 (R) ↻ 72 1146 630 (L)
- ↻ 79 1146 629 (R) ↻ 79 1146 630 (L)
- ↻ 79 1146 631 (ldf)
- ↻ 10 1146 | 14 1418 018 | 19 1927 003

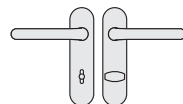


- ↻ 72 1146 035 (R) ↻ 72 1146 036 (L)
- ↻ 79 1146 035 (R) ↻ 79 1146 036 (L)
- ↻ 10 1146 | 14 1488 0.. | 19 1990 0..

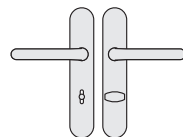
WC fittings



- ↻ 72 1146 619 (R) ↻ 72 1146 620 (L)
- ↻ 10 1146 | 17 1731 018 | 17 1735 00054



- ↻ 72 1146 611 (R) ↻ 72 1146 612 (L)
- ↻ 10 1146 | 14 1451 01854



- ↻ 72 1146 631 (R) ↻ 72 1146 632 (L)
- ↻ 10 1146 | 14 1418 01854



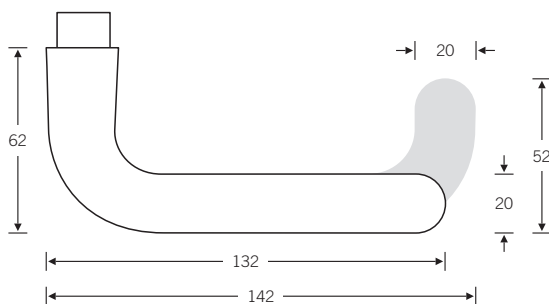
- ↻ 72 1146 039 (R) ↻ 72 1146 040 (L)
- ↻ 10 1146 | 14 1488 0..54

Window handles

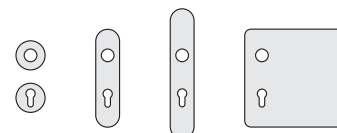


- 34 1146 008 (heavy-duty version)
- 34 1146 007 (low-profile rose)
- 34 1146 170 (locking adapter)
- 34 1146 076 (ditto with pushbutton)

The FSB logo echoes a door handle designed by the Austrian philosopher Ludwig Wittgenstein in the mid-1920s in Vienna. This is the original upon which all similar door handle shapes are based. By adding a conical shank and spherical tip we aimed to set ourselves apart from the many other variants of this handle on the market.



Recommended rose and backplate variants



surface mount	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
flush mount*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
isis® systems**	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Glass door fitting



Standard	●	●
isis® systems		●

13 4223 with 72 1147 | Page 472f.

Glass door fittings not in brass

Frame door handles



Standard	●	●	●
isis® systems	●	●	●

09 1147 (straight) | Page 423

06 1147 (offset) | Page 422

Door knobs



Solid doors	●	●	●
Frame doors		●	●

23 0802 (for solid doors) | Page 304

07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1147** | Page 336

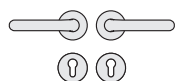
Additional items for the handle system:





Fitting lifting/sliding doors 34 1146 012.. | Page 354f.
 Lifting/sliding door fitting 34 1146 011.. | Page 357f.
 Door pull 66 6602 | Page 518
 Door pull 66 6662 | Page 535
 Barrier-free fitting 14 424. | Page 627




Additional items for large buildings:

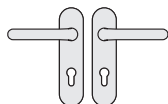
isis® access management | Page 43f.
 SSF tubular frame locks with through screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.





Door handle fittings






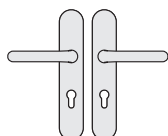
-  72 1147 613 (R)
-  76 1147 613 (R)
-  79 1146 613 (R)
-  10 1147 | 17 1731 018 | 17 1735





-  72 1147 614 (L)
-  76 1147 614 (L)
-  79 1146 614 (L)






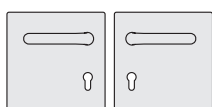
-  72 1147 607 (R)
-  76 1147 607 (R)
-  79 1146 607 (R)
-  10 1147 | 14 1451 018





-  72 1147 608 (L)
-  76 1147 608 (L)
-  79 1146 608 (L)






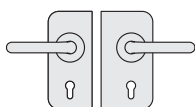
-  72 1147 627 (R)
-  76 1147 627 (R)
-  79 1146 627 (R)
-  10 1147 | 14 1418 018

-  72 1147 628 (L)
-  76 1147 628 (L)
-  79 1146 628 (L)





-  72 1147 033 (R)
-  76 1147 033 (R)
-  79 1146 033 (R)
-  10 1147 | 14 1488 003

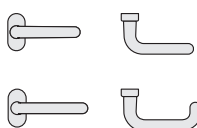
-  72 1147 034 (L)
-  76 1147 034 (L)
-  79 1146 034 (L)






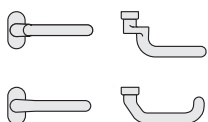
-  13 4223 042 (R) with 72 1147 61350 (R)
-  13 4223 041 (R) with 10 1147 00100

-  13 4223 052 (L) with 72 1147 61450 (L)
-  13 4223 051 (L) with 10 1147 00100


Frame door handles



-  09 1147 011
-  09 1147 012
-  09 1146 012





-  06 1147 011
-  06 1147 012
-  06 1146 012



-  06 1147 023 (ldf)
-  06 1146 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)

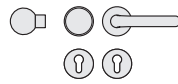


- 17 1757

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

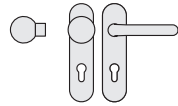
Heavy-duty, fire safety and glass door fittings
not in brass

Entrance door fittings



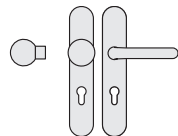
- 72 1147 615 (R)
- 76 1147 615 (R)
- 76 1147 619 (ldf)
- 79 1146 615 (R)
- 79 1146 619 (ldf)
- 10 1147 | 17 1731 019 | 17 1735 | 23 0802 0006

- 72 1147 616 (L)
- 76 1147 616 (L)
- 79 1146 616 (L)



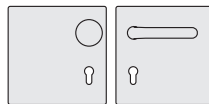
- 72 1147 609 (R)
- 76 1147 609 (R)
- 76 1147 611 (ldf)
- 79 1146 609 (R)
- 79 1146 611 (ldf)
- 10 1147 | 14 1451 018 | 19 1964 003

- 72 1147 610 (L)
- 76 1147 610 (L)
- 79 1146 610 (L)



- 72 1147 629 (R)
- 76 1147 629 (R)
- 76 1147 631 (ldf)
- 79 1146 629 (R)
- 79 1146 631 (ldf)
- 10 1147 | 14 1418 018 | 19 1927 003

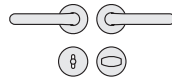
- 72 1147 630 (L)
- 76 1147 630 (L)
- 79 1146 630 (L)



- 72 1147 035 (R)
- 76 1147 035 (R)
- 79 1146 035 (R)
- 10 1147 | 14 1488 0.. | 19 1990 0..

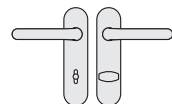
- 72 1147 036 (L)
- 76 1147 036 (L)
- 79 1146 036 (L)

WC fittings



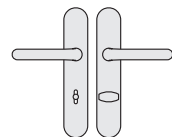
- 72 1147 619 (R)
- 10 1147 | 17 1731 018 | 17 1735 00054

- 72 1147 620 (L)



- 72 1147 611 (R)
- 10 1147 | 14 1451 01854

- 72 1147 612 (L)



- 72 1147 631 (R)
- 10 1147 | 14 1418 01854

- 72 1147 632 (L)



- 72 1147 039 (R)
- 10 1147 | 14 1488 0..54

- 72 1147 040 (L)

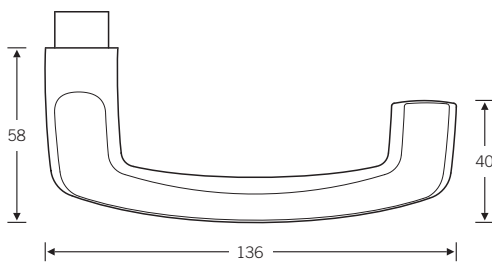
Window handles



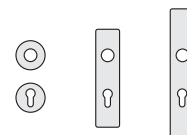
- 34 1147 008 (heavy-duty version)
- 34 1147 007 (low-profile rose)
- 34 1147 170 (locking adapter)
- 34 1147 076 (ditto with pushbutton)

Window handle not in brass

The process of creating FSB 1159 began for Laurids and Manfred Ortner with a comparative analysis of door handle models old and new. At the end of the day a typical handle shape was produced which, with its transitions and curved surfaces, gives its users the feeling of holding something familiar in their hand.



Recommended rose and backplate variants



EN 179

Design: Laurids and
Manfred Ortner

* with restrictions depending on design
** only in stainless steel

surface mount



flush mount*



isis® systems



Glass door fitting



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>

13 4223 with 10 1159 | Page 472f.

Frame door handles



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
isis® systems	<input type="radio"/>	<input type="radio"/>	

09 1159 (straight) | Page 425
06 1159 (offset) | Page 424

Door knobs



Solid doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Frame doors		<input checked="" type="radio"/>	<input checked="" type="radio"/>

23 0829 (for solid doors) | Page 307
07 0809 (for frame doors) | Page 431

Window handle



Standard, RAL	<input checked="" type="radio"/>
Rose, low profile	<input checked="" type="radio"/>
Lockable	<input checked="" type="radio"/>

34 1159 | Page 337

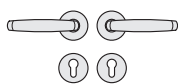
Additional items for the handle system:

Barrier-free fitting 14 424. | Page 627

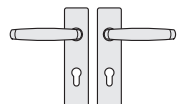
Additional items for large buildings:






isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

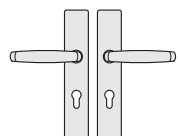
Door handle fittings



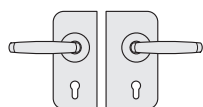
-  72 1159 613 (R)
-  72 1159 614 (L)
-  79 1159 613 (R)
-  79 1159 614 (L)
-  10 1159 | 17 1731 018 | 17 1735







-  72 1159 601 (R)
-  72 1159 602 (L)
-  79 1159 601 (R)
-  79 1159 602 (L)
-  10 1159 | 14 1450 018





-  72 1159 621 (R)
-  72 1159 622 (L)
-  79 1159 621 (R)
-  79 1159 622 (L)
-  10 1159 | 14 1410 018

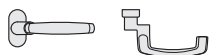


-  13 4223 042 (R) with 72 1159 61350 (R)
-  13 4223 052 (L) with 72 1159 61450 (L)
-  13 4223 041 (R) with 10 1159 00100
-  13 4223 051 (L) with 10 1159 00100

Frame door handles





-  09 1159 011
-  09 1159 012



-  06 1159 011
-  06 1159 012
-  06 1159 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
-  07 0829 228 (fixed, stainless steel)
-  07 0828 428 (fixed, aluminium)



- 07 0809 228 (fixed)
-  07 0809 228 (fixed, stainless steel)
-  07 0809 428 (fixed, aluminium)

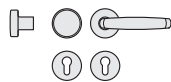


- 17 1757

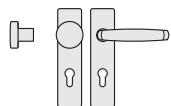
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Fire safety fittings only in stainless steel

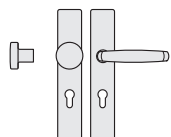
Entrance door fittings



- 72 1159 617 (R)
- 72 1159 618 (L)
- 79 1159 617 (R)
- 79 1159 618 (L)
- 79 1159 619 (ldf)
- 10 1159 | 17 1731 019 | 17 1735 | 23 0829 0006

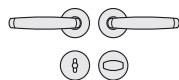


- 72 1159 603 (R)
- 72 1159 604 (L)
- 79 1159 603 (R)
- 79 1159 604 (L)
- 79 1159 605 (ldf)
- 10 1159 | 14 1450 018 | 19 1963 003

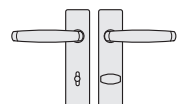


- 72 1159 623 (R)
- 72 1159 624 (L)
- 79 1159 623 (R)
- 79 1159 624 (L)
- 79 1159 625 (ldf)
- 10 1159 | 14 1410 018 | 19 1970 003

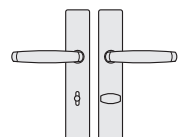
WC fittings



- 72 1159 619 (R)
- 72 1159 620 (L)
- 10 1159 | 17 1731 018 | 17 1735 00054



- 72 1159 605 (R)
- 72 1159 606 (L)
- 10 1159 | 14 1450 01854



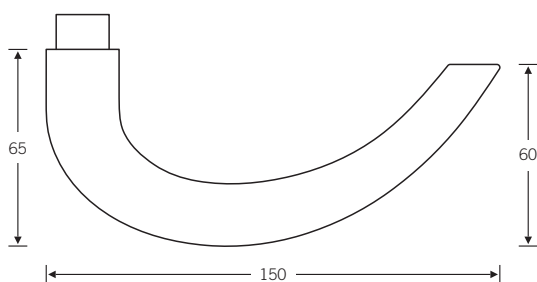
- 72 1159 625 (R)
- 72 1159 626 (L)
- 10 1159 | 14 1410 01854

Window handles

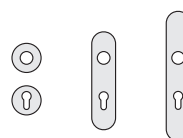


- 34 1159 008 (heavy-duty version)
- 34 1159 007 (low-profile rose)
- 34 1159 170 (locking adapter)
- 34 1159 076 (ditto with pushbutton)

Works design FSB 1160 is based on the “dynamic golden growth spiral”. It has a round cross-section, with the door handle also tapering from the shank to the end of the handle following the rule of the golden ratio.



Recommended rose and backplate variants



EN 179

Wide back-plate fittings on request

* with restrictions depending on design

surface mount



flush mount*



isis® systems



Glass door fitting



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>

13 4223 with 72 1160 | Page 472f.

Frame door handles



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>

09 1160 (straight) | Page 425
06 1160 (offset) | Page 424

Door knobs



Solid doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Frame doors	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

23 0802 (for solid doors) | Page 304
07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	<input checked="" type="radio"/>
Rose, low profile	<input checked="" type="radio"/>
Lockable	<input checked="" type="radio"/>

34 1160 | Page 337

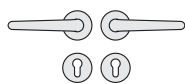
Additional items for the handle system:

Barrier-free fitting 14 424. | Page 627

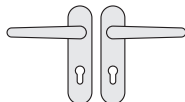
Additional items for large buildings:






isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

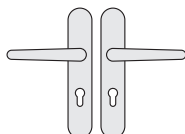
Door handle fittings








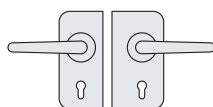
-  72 1160 613 (R)
-  72 1160 614 (L)
-  79 1160 613 (R)
-  79 1160 614 (L)
-  10 1160 | 17 1731 018 | 17 1735







-  72 1160 607 (R)
-  72 1160 608 (L)
-  79 1160 607 (R)
-  79 1160 608 (L)
-  10 1160 | 14 1451 018





-  72 1160 627 (R)
-  72 1160 628 (L)
-  79 1160 627 (R)
-  79 1160 628 (L)
-  10 1160 | 14 1418 018



-  13 4223 042 (R) with 72 1160 61350 (R)
-  13 4223 052 (L) with 72 1160 61450 (L)
-  13 4223 041 (R) with 10 1160 00100
-  13 4223 051 (L) with 10 1160 00100

Frame door handles




-  09 1160 011
-  09 1160 012





-  06 1160 011
-  06 1160 012
-  06 1160 023 (ldf)

Frame door knobs



- 07 0802 228 (fixed)
-  07 0802 228 (fixed, stainless steel)
-  07 0802 428 (fixed, aluminium)



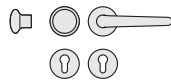
- 07 0846 228 (fixed)
-  07 0846 228 (fixed, stainless steel)
-  07 0846 428 (fixed, aluminium)



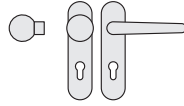
- 17 1757

R = DIN right hand
 L = DIN left hand
 ldf = inactive door fitting

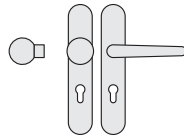
Entrance door fittings



- 72 1160 615 (R)
- 72 1160 616 (L)
- 79 1160 615 (R)
- 79 1160 616 (L)
- 79 1160 619 (ldf)
- 10 1160 | 17 1731 019 | 17 1735 | 23 0880 00036

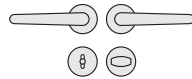


- 72 1160 609 (R)
- 72 1160 610 (L)
- 79 1160 609 (R)
- 79 1160 610 (L)
- 79 1160 611 (ldf)
- 10 1160 | 14 1451 018 | 19 1964 003

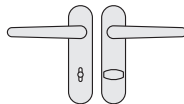


- 72 1160 629 (R)
- 72 1160 630 (L)
- 79 1160 629 (R)
- 79 1160 630 (L)
- 79 1160 631 (ldf)
- 10 1160 | 14 1418 018 | 19 1927 003

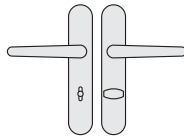
WC fittings



- 72 1160 619 (R)
- 72 1160 620 (L)
- 10 1160 | 17 1731 018 | 17 1735 00054



- 72 1160 611 (R)
- 72 1160 612 (L)
- 10 1160 | 14 1451 01854



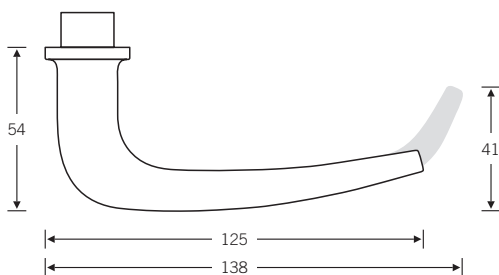
- 72 1160 631 (R)
- 72 1160 632 (L)
- 10 1160 | 14 1418 01854

Window handles

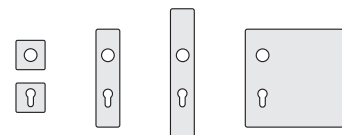


- 34 1160 008 (heavy-duty version)
- 34 1160 007 (low-profile rose)
- 34 1160 170 (locking adapter)
- 34 1160 076 (ditto with pushbutton)

Berlin-based architect Hans Kollhoff devised a handle design for his projects that consciously accommodates design elements from the 1930s. His plain door handles, window handles and window fasteners were immediately adopted as authentic interpretations by the market.



Recommended rose and backplate variants



EN 179

Design: Hans Kollhoff

In aluminium only available in natural anodised finish (FSB 0105)

EN 179 model: FSB 1164

Wide back-plate fittings in bronze on request

* with restrictions depending on design

** only with a round rose

surface mount				
flush mount*				
isis® systems**				

Glass door fitting



Standard



isis® systems



13 4220 with 10 1163 | Page 470f.

Glass door fittings not in bronze

Frame door handles



Standard



isis® systems



09 1164 (straight) | Page 427

06 1164 (offset) | Page 426

Door knobs



Solid doors



Frame doors



23 0811 (for solid doors) | Page 305

07 0812 (for frame doors) | Page 430

Window handle



Standard, RAL



Rose, low profile



Lockable



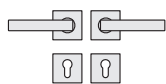
34 1163 | Page 338






34 3453 | Page 343

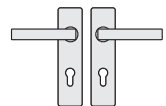
Additional items for large buildings:


isis® access management | Page 43f.
 SSF tubular frame locks with through
 screw fixing option | Page 406
 Barrier-free ErgoSystem® | Page 629f.

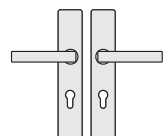
Door handle fittings





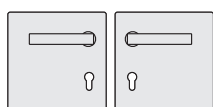
-  72 1163 641 (R)
-  76 1163 639 (R)
-  79 1164 639 (R)
-  10 1163 | 17 1703 00004 | 17 1704
-  72 1163 642 (L)
-  76 1163 640 (L)
-  79 1164 640 (L)








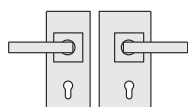
-  72 1163 601 (R)
-  76 1163 601 (R)
-  79 1164 601 (R)
-  10 1163 | 14 1450 003
-  72 1163 602 (L)
-  76 1163 602 (L)
-  79 1164 602 (L)







-  72 1163 621 (R)
-  76 1163 621 (R)
-  79 1164 621 (R)
-  10 1163 | 14 1410 003
-  72 1163 622 (L)
-  76 1163 622 (L)
-  79 1164 622 (L)

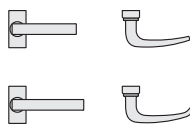





-  72 1163 033 (R)
-  76 1163 033 (R)
-  79 1164 033 (R)
-  10 1163 | 14 1488 003
-  72 1163 034 (L)
-  76 1163 034 (L)
-  79 1164 034 (L)

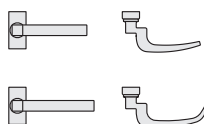




-  13 4220 042 (R) with 72 1163 64150 (R)
-  13 4220 041 (R) with 10 1163 00100
-  13 4220 052 (L) with 72 1163 64250 (L)
-  13 4220 051 (L) with 10 1163 00100

Frame door handles





-  09 1163 071
-  09 1163 072
-  09 1164 072





-  06 1163 071
-  06 1163 072
-  06 1164 072
-  06 1163 073 (ldf)
-  06 1164 073 (ldf)

Frame door knobs



- 07 0811 229 (fixed)
-  07 0811 229 (fixed, stainless steel & bronze)
-  07 0811 429 (fixed, aluminium)



- 07 0812 229 (fixed)
-  07 0812 229 (fixed, stainless steel & bronze)
-  07 0812 429 (fixed, aluminium)

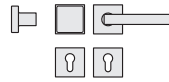


17 1778

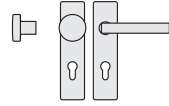
R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

Glass door fittings not in bronze
Wide back-plate fittings in bronze on request

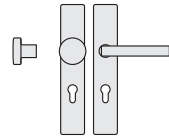
Entrance door fittings



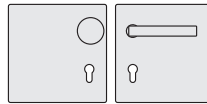
- 72 1163 643 (R) 72 1163 644 (L)
- 76 1163 641 (R) 76 1163 642 (L)
- 76 1163 643 (ldf)
- 79 1164 641 (R) 79 1164 642 (L)
- 79 1164 643 (ldf)
- 10 1163 | 17 1703 05004 | 17 1704 |
23 0811 00026



- 72 1163 603 (R) 72 1163 604 (L)
- 76 1163 603 (R) 76 1163 604 (L)
- 76 1163 605 (ldf) 79 1164 604 (L)
- 79 1164 603 (R)
- 79 1164 605 (ldf)
- 10 1163 | 14 1450 003 | 19 1963 003

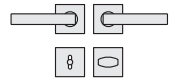


- 72 1163 623 (R) 72 1163 624 (L)
- 76 1163 623 (R) 76 1163 624 (L)
- 76 1163 625 (ldf) 79 1164 624 (L)
- 79 1164 623 (R)
- 79 1164 625 (ldf)
- 10 1163 | 14 1410 003 | 19 1970 003

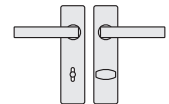


- 72 1163 037 (R) 72 1163 038 (L)
- 76 1163 037 (R) 76 1163 038 (L)
- 79 1164 037 (R) 79 1164 038 (L)
- 10 1163 | 14 1488 0.. | 19 1994 0..

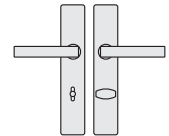
WC fittings



- 72 1163 645 (R) 72 1163 646 (L)
- 10 1163 | 17 1703 00004 | 17 1704 00054



- 72 1163 605 (R) 72 1163 606 (L)
- 10 1163 | 14 1450 00354



- 72 1163 625 (R) 72 1163 626 (L)
- 10 1163 | 14 1410 00354



- 72 1163 039 (R) 72 1163 040 (L)
- 10 1163 | 14 1488 0..54

Window handles

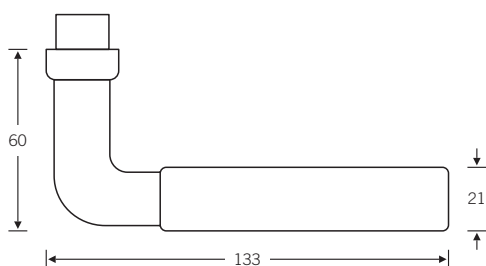


- 34 1163 068 (heavy-duty version)
- 34 1163 067 (low-profile rose)
- 34 1163 170 (locking adapter)
- 34 1163 076 (ditto with pushbutton)

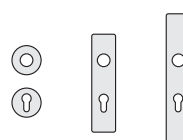


- 34 3453 068 (heavy-duty version)
- 34 3453 067 (low-profile rose)
- 34 3453 170 (locking adapter)
- 34 3453 076 (ditto with pushbutton)

Back in the 1930s and 1940s, FSB made a door handle that entered design history as the “nickel-horn handle”. In 1992 FSB’s toolmakers set about recreating this shape in tubular stainless steel using innovative technology. Their efforts succeeded and the traditional design was reinterpreted in modern materials.



Recommended rose and backplate variants

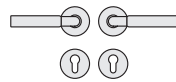


* with restrictions depending on design

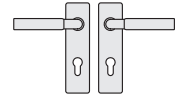
surface mount ●

flush mount* ●

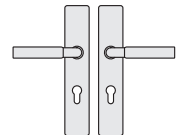
Door handle fittings



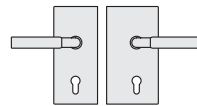
➤ 10 1171 | 17 1731 018 | 17 1735



➤ 10 1171 | 14 1450 018

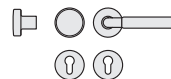


➤ 10 1171 | 14 1410 018

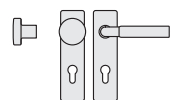


➤ 13 4220 041 (R) with 10 1171 00100 ➤ 13 4220 051 (L) with 10 1171 00100

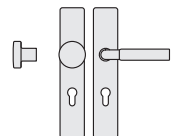
Entrance door fittings



➤ 10 1171 | 17 1731 019 | 17 1735 | 23 0829 00006

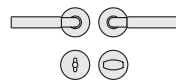


➤ 10 1171 | 14 1450 018 | 19 1963 003

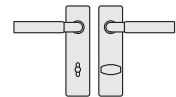


➤ 10 1171 | 14 1410 018 | 19 1970 003

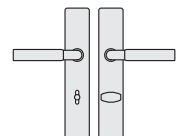
WC fittings



➤ 10 1171 | 17 1731 018 | 17 1735 00054



➤ 10 1171 | 14 1450 01854



➤ 10 1171 | 14 1410 01854

Window handles



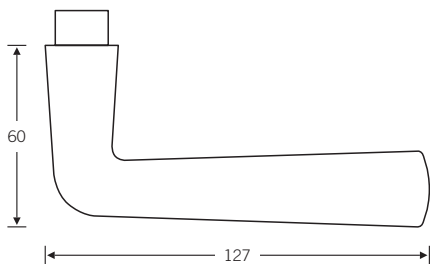
34 1171 008 (heavy-duty version)
 34 1171 007 (low-profile rose)
 34 1171 170 (locking adapter)
 34 1171 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

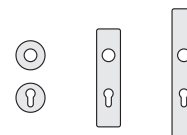
34 1171 | Page 338

3a

The design of the 1173 with its fantail shape picks up on an idea that first emerged in the Frankfurt area at the end of the 1920s, but also has a long tradition at our company. 1173 is a clever variation of the “round tube design” and represents a welcome alternative to the familiar classics, which we do want to advertise any further at this point ;-)



Recommended rose and backplate variants

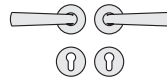


* with restrictions depending on design

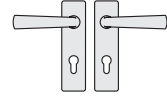
surface mount ●

flush mount* ●

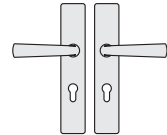
Door handle fittings



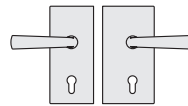
10 1173 | 17 1731 018 | 17 1735



10 1173 | 14 1450 018



10 1173 | 14 1410 018

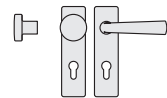


13 4220 041 (R) with 10 1173 00100 13 4220 051 (L) with 10 1173 00100

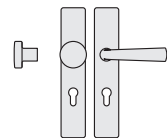
Entrance door fittings



10 1173 | 17 1731 019 | 17 1735 | 23 0829 00006

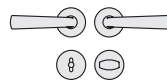


10 1173 | 14 1450 018 | 19 1963 003

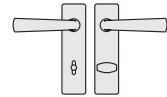


10 1173 | 14 1410 018 | 19 1970 003

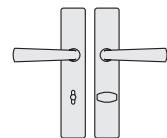
WC fittings



10 1173 | 17 1731 018 | 17 1735 00054



10 1173 | 14 1450 01854



10 1173 | 14 1410 01854

Window handles



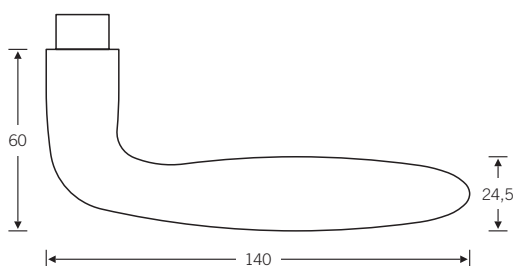
34 1173 008 (heavy-duty version)
 34 1173 007 (low-profile rose)
 34 1173 170 (locking adapter)
 34 1173 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

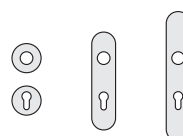
34 1173 | Page 339

3a

The design of FSB 1176 is based on a classic model from the FSB range. The shank and tip of this handle were originally made of rolled steel, then later of cast aluminium. The grip itself was a chunky affair made of black plastic. FSB's toolmakers succeeded in fashioning this familiar design out of stainless steel tubing.



Recommended rose and backplate variants

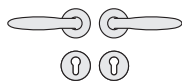


* with restrictions depending on design

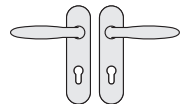
surface mount ●

flush mount* ●

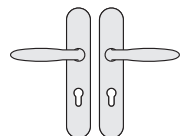
Door handle fittings



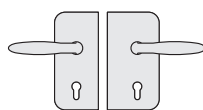
➤ 10 1176 | 17 1731 018 | 17 1735



➤ 10 1176 | 14 1451 018



➤ 10 1176 | 14 1418 018

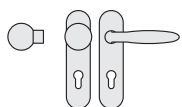


➤ 13 4223 041 (R) with 10 1176 00100 ➤ 13 4223 051 (L) with 10 1176 00100

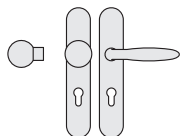
Entrance door fittings



➤ 10 1176 | 17 1731 019 | 17 1735 | 23 0802 00006

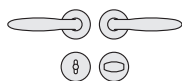


➤ 10 1176 | 14 1451 018 | 19 1964 003

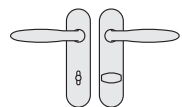


➤ 10 1176 | 14 1418 018 | 19 1927 003

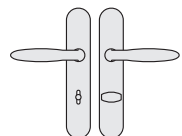
WC fittings



➤ 10 1176 | 17 1731 018 | 17 1735 00054



➤ 10 1176 | 14 1451 01854



➤ 10 1176 | 14 1418 01854

Window handles



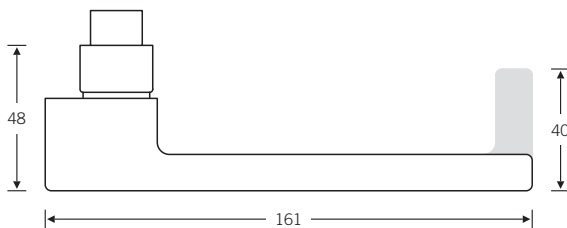
34 1176 008 (heavy-duty version)
 34 1176 007 (low-profile rose)
 34 1176 170 (locking adapter)
 34 1176 076 (ditto with pushbutton)

R = DIN right hand
 L = DIN left hand

34 1176 | Page 339

3a

For frame doors we are familiar with offset handle shapes on the closing side of the door, and standard shapes on the other side, the so-called "Wittgenstein solution". Hadi Teherani solved the function of the offset handle to avert the risk of skinning your thumb on the door frame, by simply shifting the handle's axis of rotation to the left.



Recommended rose variants



EN 179

Design: Hadi Teherani

 EN 179 model: FSB 1074

In aluminium only available in natural anodised finish (FSB 0105)

* with restrictions depending on design

surface mount



flush mount*





Glass door fitting



Standard



13 4220 with 10 1183 | Page 470f.

3a



Frame door handles



Standard



09 1074 (straight)** | Page 415

06 0644 (offset) | Page 414



Door knobs



Solid doors



Frame doors



23 0873 (for solid doors) | Page 309

07 0812 (for frame doors) | Page 430



Window handle



Standard, RAL



Rose, low profile



Lockable



34 1183 | Page 340








** suitable for a backset from 40 mm

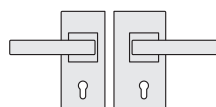
Additional items for large buildings:





isis® access management | Page 43f.
SSF tubular frame locks with through
screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

Door handle fittings




-  72 1183 641 (R)
-  72 1183 642 (L)
-  76 1183 639 (R)
-  76 1183 640 (L)
-  79 1074 639 (R)
-  79 1074 640 (L)
-  10 1183 | 17 1703 018 | 17 1704

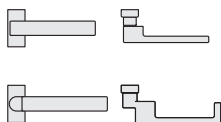


-  13 4220 042 (R) with 72 1183 64150 (R)
-  13 4220 052 (L) with 72 1183 64250 (L)
-  13 4220 041 (R) with 72 1183 00100
-  13 4220 051 (L) with 72 1183 00100

Frame door handles





-  09 1074 072



-  09 1183 071*
-  09 1183 072*
-  06 0644 071
-  06 0644 072
-  06 0644 073 (ldf)

Frame door knobs



- 07 0811 229 (fixed)
-  07 0811 229 (fixed, stainless steel)
-  07 0811 429 (fixed, aluminium)



- 07 0812 229 (fixed)
-  07 0812 229 (fixed, stainless steel)
-  07 0812 429 (fixed, aluminium)

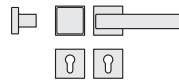


- 17 1778

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

* suitable for a backset from 40 mm

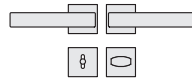
Entrance door fittings



- 72 1183 643 (R)
 - 72 1183 644 (L)
 - 76 1183 641 (R)
 - 76 1183 642 (L)
 - 76 1183 643 (ldf)
 - 79 1074 641 (R)
 - 79 1074 642 (L)
 - 79 1074 643 (ldf)
 - 10 1183 | 17 1703 019 | 17 1704 | 23 0811 00026
-
-
-

3a

WC fittings



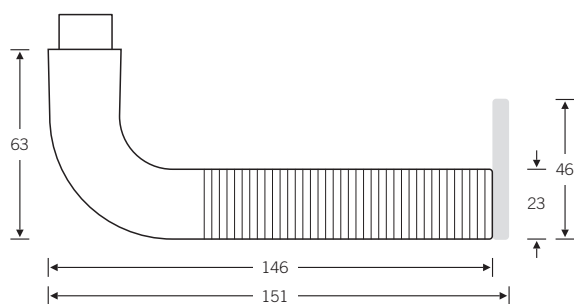
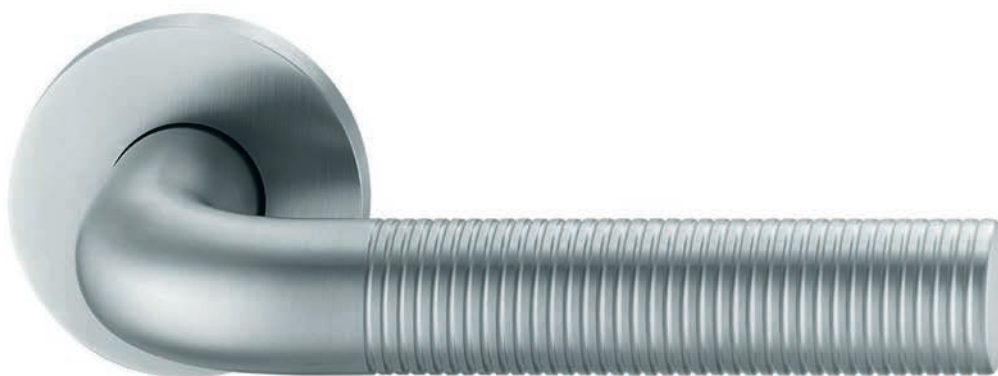
- 72 1183 645 (R)
 - 72 1183 646 (L)
 - 10 1183 | 17 1703 018 | 17 1704 00054
-
-
-

Window handles

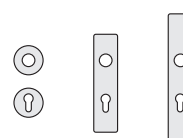


- 34 1183 068 (heavy-duty version)
 - 34 1183 067 (low-profile rose)
 - 34 1183 170 (locking adapter)
 - 34 1183 076 (ditto with pushbutton)
-

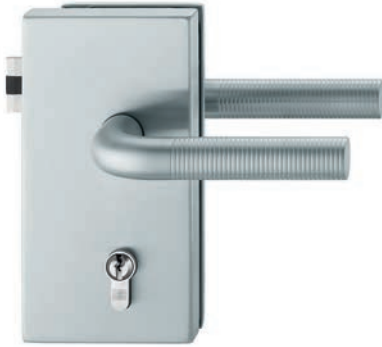
Prévost drew on the iconic door handle FSB 1147 designed by the philosopher Ludwig Wittgenstein: "Form that follows a function is definitely clear, effective and economical. But that is not enough," says Monsieur Perrault about the design.



Recommended rose and backplate variants



Glass door fitting



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input checked="" type="radio"/>	<input type="radio"/>

13 4220 with 10 1186 | Page 470f.

Frame door handles



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

09 1187 (straight)
06 1187 (offset)

Door knobs



Solid doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Frame doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

23 0829 (for solid doors) | Page 307
07 0809 (for frame doors) | Page 431

Window handle



Standard, RAL	<input checked="" type="radio"/>
Rose, low profile	<input type="radio"/>
Lockable	<input type="radio"/>

34 1186 | Page 340

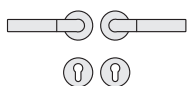
Additional items for the handle system:

Barrier-free fitting 14 424. | Page 627

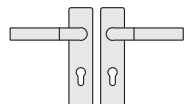
Additional items for large buildings:

isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

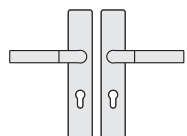
Door handle fittings



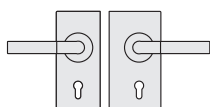
- 72 1186 613 (R)
- 72 1186 614 (L)
- 76 1186 613 (R)
- 76 1186 614 (L)
- 79 1187 613 (R)
- 79 1187 614 (L)
- 10 1186 | 17 1731 018 | 17 1735



- 72 1186 601 (R)
- 72 1186 602 (L)
- 76 1186 601 (R)
- 76 1186 602 (L)
- 79 1187 601 (R)
- 79 1187 602 (L)
- 10 1186 | 14 1450 018

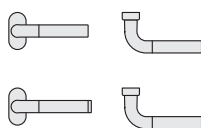


- 72 1186 621 (R)
- 72 1186 622 (L)
- 76 1186 621 (R)
- 76 1186 622 (L)
- 79 1187 621 (R)
- 79 1187 622 (L)
- 10 1186 | 14 1410 018

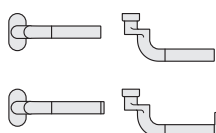


- 13 4220 042 (R) with 10 1186 61350
- 13 4220 052 (L) with 10 1186 61450
- 13 4220 041 (R) with 10 1186 00100
- 13 4220 051 (L) with 10 1186 00100

Frame door handles



- 09 1186 011
- 09 1186 012
- 09 1187 012



- 06 1186 011
- 06 1186 012
- 06 1187 012
- 06 1186 023 (ldf)
- 06 1187 023 (ldf)

Frame door knobs



- 07 0829 228 (fixed)
- 07 0829 228 (fixed, stainless steel)
- 07 0829 428 (fixed, aluminium)



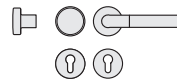
- 07 0809 228 (fixed)
- 07 0809 228 (fixed, stainless steel)
- 07 0809 428 (fixed, aluminium)



- 17 1757

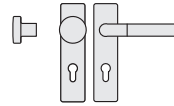
R = DIN right hand
 L = DIN left hand
 ldf = inactive door fitting

Entrance door fittings



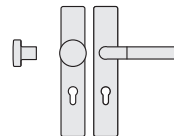
- 72 1186 617 (R)
- 76 1186 617 (R)
- 76 1186 619 (ldf)
- 79 1187 617 (R)
- 79 1187 619 (ldf)
- 10 1186 | 17 1731 019 | 17 1735 | 23 0829 0006

- 72 1186 618 (L)
- 76 1186 618 (L)
- 79 1187 618 (L)



- 72 1186 603 (R)
- 76 1186 603 (R)
- 76 1186 605 (ldf)
- 79 1187 603 (R)
- 79 1187 605 (ldf)
- 10 1186 | 14 1450 018 | 19 1963 003

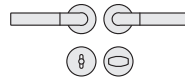
- 72 1186 604 (L)
- 76 1186 604 (L)
- 79 1187 604 (L)



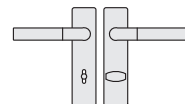
- 72 1186 623 (R)
- 76 1186 623 (R)
- 76 1186 625 (ldf)
- 79 1187 623 (R)
- 79 1187 625 (ldf)
- 10 1186 | 14 1410 018 | 19 1970 003

- 72 1186 624 (L)
- 76 1186 624 (L)
- 79 1187 624 (L)

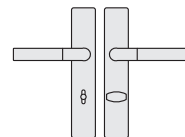
WC fittings



- 72 1186 619 (R)
- 72 1186 620 (L)
- 10 1186 | 17 1731 018 | 17 1735 00054



- 72 1186 605 (R)
- 72 1186 606 (L)
- 10 1186 | 14 1450 01854



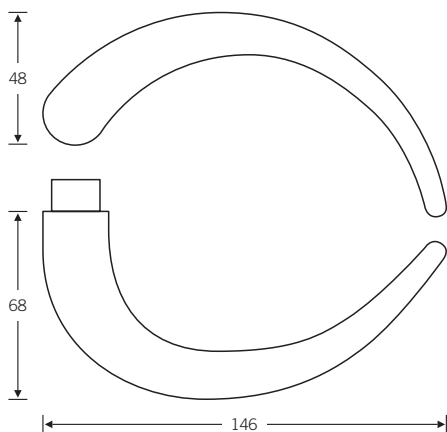
- 72 1186 625 (R)
- 72 1186 626 (L)
- 10 1186 | 14 1410 01854

Window handles

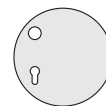


- 34 1186 008 (heavy-duty version)
- 34 1186 007 (low-profile rose)
- 34 1186 170 (locking adapter)
- 34 1186 076 (ditto with pushbutton)

Looking at these shapes, you could argue that Philippe Starck wanted to take our sector by the horns. However, when the horns are fastened to their backplates, they become door handles as fit for purpose as any you could wish for. The backplate is matt silver, the handle is polished. Both are made of premium-quality aluminium.



Recommended rose and backplate variants



Design: Philippe Starck

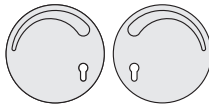
In aluminium only available in natural anodised finish (FSB 0105)

surface mount



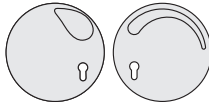
Product family 1191 ■

Door handle fitting



10 1191 | 14 1491 003

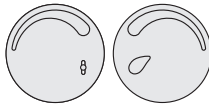
Entrance door fitting



10 1191 00004 | 14 1491 043 | 19 1991 05310 (R)
10 1191 00005 | 14 1491 053 | 19 1991 04310 (L)

3a

WC fitting



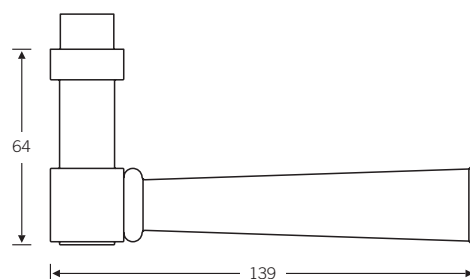
10 1191 00000 | 14 1491 04354 (R)
10 1191 00000 | 14 1491 05354 (R)

Window handle



34 1111 008 (heavy-duty version) | Page 334

Made of solid, polished brass and featuring a finely decorated back-plate, FSB 1206 stands for an attitude that is all about the return of construction to classic architecture and art history. FSB 1206 was created in the 21st century, however: Petra und Paul Kahlfeldt designed it during the course of our "HandleDuos – DuoHandles" project in 2006.



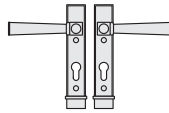
Design: Petra and Paul Kahlfeldt

surface mount



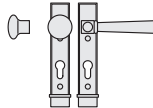
Product family 1206 ■

Door handle fitting



↳ 10 1206 | 14 1426 012

Entrance door fitting

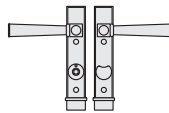


↳ 10 1206 | 14 1426 012

Backplate incorporating knob on request

3a

WC fitting



↳ 10 1206 | 14 1426 01254

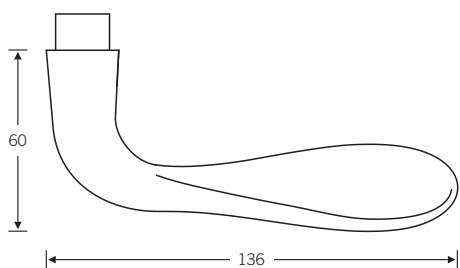
Window handle



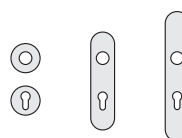
34 1206 008 (heavy-duty version)
34 1206 170 (locking adapter)
34 1206 076 (ditto with pushbutton)

34 1206 | Page 341

The shape of the FSB 1216 is a very special type of design. It flatters hand and eye to the same extent. We made it for Calatrava's "Turning Torso" building, which provided the formal concept with its twist. Its material and finish on the other hand are quite classical: natural anodised aluminium.



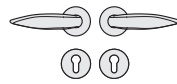
Recommended rose and backplate variants



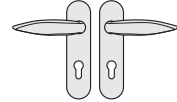
surface mount



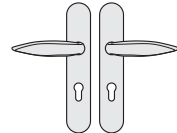
Door handle fittings



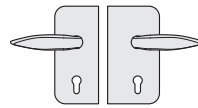
10 1216 | 17 1731 018 | 17 1735



10 1216 | 14 1451 018

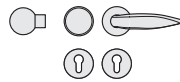


10 1216 | 14 1418 018

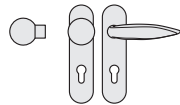


13 4223 041 (R) with 10 1216 00101 (R) | 13 4223 051 (L) with 10 1216 00102 (L)

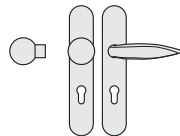
Entrance door fittings



10 1216 00004 (R) | 10 1216 00005 (L) with 17 1731 019 | 17 1735 | 23 0802 00006

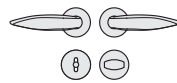


10 1216 00004 (R) | 10 1216 00005 (L) with 14 1451 018 | 19 1964 003

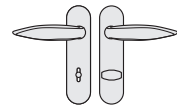


10 1216 00004 (R) | 10 1216 00005 (L) with 14 1418 018 | 19 1927 003

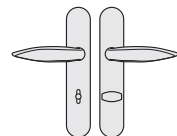
WC fittings



10 1216 | 17 1731 018 | 17 1735 00054



10 1216 | 14 1451 01854

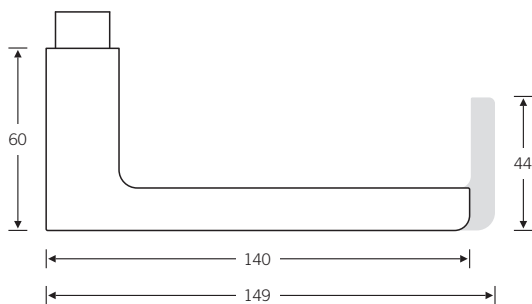


10 1216 | 14 1418 01854

R = DIN right hand
L = DIN left hand

3a

Klaus Nolting has already demonstrated with his designs for chairs how to set accents with the targeted use of metal parts. It was no great surprise that this sensitivity would eventually lead to his own design of door handle. His design mirrors a door's shape and dynamics in equal terms.



Recommended rose variants

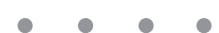


EN 179

Design: Klaus Nolting

 EN 179 model: FSB 1223


surface mount



In aluminium only available in natural anodised finish (FSB 0105)

Glass door fitting




	
Standard	●

13 4220 with 10 1222 | Page 470f.

Frame door handles






			
Standard	●	●	●
isis® systems	●	●	●

06 1223 (offset)

Door knobs




			
Solid doors	●	●	●
Frame doors		●	●

23 0811 (for solid doors) | Page 305
07 0812 (for frame doors) | Page 430

Window handle



	
Standard, RAL	●
Rose, low profile	●
Lockable	●

34 1222 | Page 341

Additional items for large buildings:

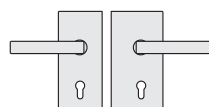
isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

Product family 1222 ■

Door handle fittings

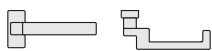


- 72 1222 641 (R)
- 72 1222 642 (L)
- 76 1222 639 (R)
- 76 1222 640 (L)
- 79 1223 639 (R)
- 79 1223 640 (L)
- 10 1222 | 17 1703 00601 | 17 1704



- 13 4220 042 (R) with 72 1222 64150 (R)
- 13 4220 041 (R) with 10 1222 00100
- 13 4220 052 (L) with 72 1222 64250 (L)
- 13 4220 051 (L) with 10 1222 00100

Frame door handles



- 06 1223 071
- 06 1223 072
- 06 1223 073 (ldf)

Frame door knobs



- 07 0811 229 (fixed)
- 07 0811 429 (fixed)



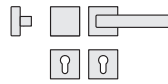
- 07 0812 229 (fixed)
- 07 0812 429 (fixed)



- 17 1778

R = DIN right hand
L = DIN left hand
ldf = inactive door fitting

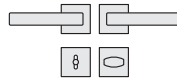
Entrance door fittings



- 72 1222 643 (R) 72 1222 644 (L)
 - 76 1222 641 (R) 76 1222 642 (L)
 - 76 1222 643 (ldf)
 - 79 1223 641 (R) 79 1223 642 (L)
 - 79 1223 643 (ldf)
 - 10 1222 | 17 1703 05601 | 17 1704 |
23 0811 00026
-

3a

WC fittings



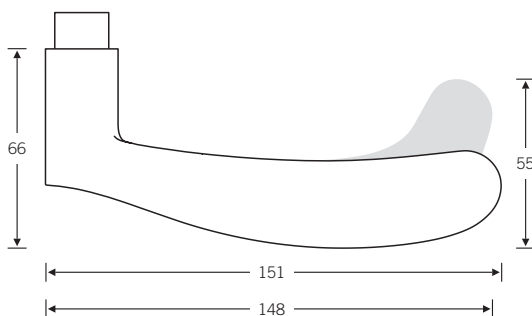
- 72 1222 645 (R) 72 1222 646 (L)
 - 10 1222 | 17 1703 00601 | 17 1704 00054
-

Window handles



- 34 1222 068 (heavy-duty version)
 - 34 1222 067 (low-profile rose)
 - 34 1222 170 (locking adapter)
 - 34 1222 076 (ditto with pushbutton)
-

The German-English couple, Matthias Sauerbruch and Louisa Hutton, has designed a family of door handles that represents our design philosophy of the ergonomics of gripping in exemplary fashion. The result is an elegant shape free of any ideology. The grip section stretches out to the gripping hand and pleases with its soft curves when grasped.



Recommended rose and backplate variants



Design:
Matthias Sauerbruch and
Louisa Hutton

 EN 179 model: FSB 1231

* with restrictions depending on design

surface mount	●	●	●	●
flush mount*	●	●	●	
isis® systems	○	○	○	

Glass door fitting



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>

13 4223 with 72 1230 | Page 472f.

Frame door handles



Standard	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
isis® systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

06 1231 (offset)

Door knobs



Solid doors	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Frame doors	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

23 0802 (for solid doors) | Page 304
07 0846 (for frame doors) | Page 432

Window handle



Standard, RAL	<input checked="" type="radio"/>
Rose, low profile	<input checked="" type="radio"/>
Lockable	<input checked="" type="radio"/>

34 1229

Additional items for the handle system:

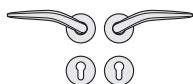
Barrier-free fitting 14 424. | Page 627

Additional items for large buildings:

isis® access management | Page 43f.
SSF tubular frame locks with through screw fixing option | Page 406
Barrier-free ErgoSystem® | Page 629f.

Product family 1230 ■

Door handle fittings



- ↻ 72 1230 613 (R)
- ↻ 72 1230 614 (L)
- ↻ 76 1230 613 (R)
- ↻ 76 1230 614 (L)
- ↻ 79 1231 613 (R)
- ↻ 79 1231 614 (L)
- ↻ 10 1230 | 17 1731 018 | 17 1735



- ↻ 13 4223 042 (R) with 72 1230 61350 (R)
- ↻ 13 4223 041 (R) with 10 1230 00100
- ↻ 13 4223 052 (L) with 72 1230 61450 (L)
- ↻ 13 4223 051 (L) with 10 1230 00100

Frame door handles



- ↻ 06 1231 011
- ↻ 06 1231 012
- ↻ 06 1231 023 (ldf)

Frame door knobs



- ↻ 07 0802 228 (fixed)
- ↻ 07 0802 228 (fixed, stainless steel & bronze)
- ↻ 07 0802 428 (fixed, aluminium)



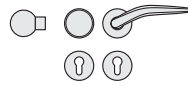
- ↻ 07 0846 228 (fixed)
- ↻ 07 0846 228 (fixed, stainless steel & bronze)
- ↻ 07 0846 428 (fixed, aluminium)



17 1757

R = DIN right hand
 L = DIN left hand
 ldf = inactive door fitting

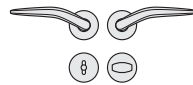
Entrance door fittings



- 72 1230 615 (R) 72 1230 616 (L)
 - 76 1230 615 (R) 76 1230 616 (L)
 - 76 1230 619 (ldf)
 - 79 1231 615 (R) 79 1231 616 (L)
 - 79 1231 619 (ldf)
 - 10 1230 | 17 1731 019 | 17 1735 | 23 0802 00006
-
-
-

3a

WC fittings



- 72 1230 619 (R) 72 1230 620 (L)
 - 10 1230 | 17 1731 018 | 17 1735 00054
-
-
-

Window handles



- 34 1229 048 (R) | 058 (L) (heavy-duty version)
 - 34 1229 047 (R) | 057 (L) (low-profile rose)
 - 34 1229 470 (R) | 570 (L) (locking adapter)
 - 34 1229 476 (R) | 576 (L) (ditto with pushbutton)
-





Zorlu Center, Istanbul

www.zorlucenter.com

Emre Arolat Architects, Istanbul

www.emrearolat.com

Tabanlıoğlu Architects, Istanbul,

Ankara, Dubai

www.tabanlıoğlu.com

Photo: Achim Krug

FSB 1076 range of handles,
see page 170 ff.

FSB 1080 range of handles

FSB 42 4251 flush pulls,

see page 367

FSB 77 7980, FSB 77 7970 fittings

for emergency exits,

see page 446 ff.

FSB 88 9104 door closers

Stainless steel, fine matt, brushed



Bronze, lightly patinated, waxed

Aluminium natural colour

www.fsb.de/zorlu_center

270	Flush fittings and roses	3b
273	Rose round + rectangular	
274	Bathroom/WC bolts	
277	Trimmed roses and backplates	
280	Backplates	
287	Finger plates and kick plates	



Overview

17 1703 
17 1704 
Page 273, 275



17 1704 
Page 275, 276



17 1731 
17 1735 
Page 273, 274





17 1732 
Page 276





17 1735 
Page 274, 276





17 1733/34 
17 1736/37 
Page 271





17 1729 
17 1768 
Page 436





17 1752 
17 1755 
Page 435



17 1757 
17 1758 
Page 437





17 1765 
17 1766 
Page 436






17 1778 
Page 437






72 8.. 
76 8.. 
Page 270






14 1402 
14 1450 
14 1452 
Page 280




14 1410 
14 1407 
14 1445 
Page 281




14 1415 
14 1451 
14 1453 
Page 282



14 1418 
Page 283



14 1429 
Page 284




14 1433 
Page 286





17 1795 
17 1796 
Page 277f.




14 1458–1459 
Page 278f.




14 1488 
14 1486 
Page 285



Finger plates, kick plates 
Page 287f., 290



14 1550 
Page 435





FSB 1144, Design: Jasper Morrison, flush design with WC bolt, see page 270

It was in the 1920s and in the Bauhaus period, as a plethora of classic door handle designs were created, that designers first consciously thought about the shape and fixing of roses and backplates, as for the Gropius handle with its visibly screwed, angular roses. With its matchless range of shapes, materials and technical variants, or even the flush versions, FSB can offer almost unrestricted options for individual and exclusive combinations of fittings.

Technical information

Roses and backplates

Flush roses and fittings

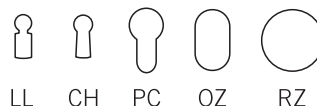
FSB has added to its flush fittings with a bearing function with flush roses for standard doors (door thicknesses 38–44 mm): 17 1736/1737. These separately available roses are also a convincing solution for standard doors both aesthetically and for installation, which was previously the reserve of doors with a thickness of 45 mm and above. With this precision solution it is possible to completely avoid the use of adhesives as practised by some competitors in the market. For details of this, please see our system brochure “Flush fittings from FSB”, which we are happy to send to you free of charge. As another aesthetic option, we also offer cut backplates and roses – see page 241 f.

Fundamentals

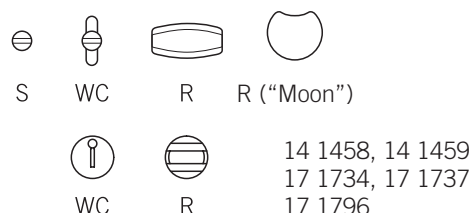
Doors are pushed and pulled. Both forces have to be supported if a door handle set is to continue to function in the long term. Backplates and roses provide this supporting function. This is why it is so important that they are correctly fitted. All of the backplates and roses offered by FSB have a 7 mm wide bushing made of indestructible black plastic. The backplates and roses are also equipped with strong supporting lugs. As the door handle set and its accessories have to harmonise with the associated locks, it is important to note the following special aspects when ordering:

Keyholes

Unless otherwise specified, we supply backplates and roses with LL keyholes.



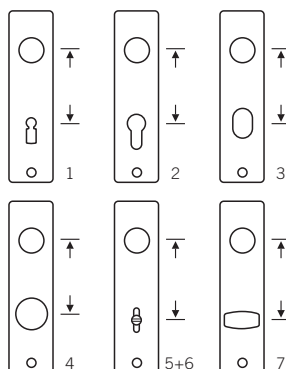
Bathroom/WC versions



Hole spacings

The standard hole spacing for room door backplates is 72 mm (LL, CH and PC), for bathroom door backplates 78 mm and for entrance door backplates 92 mm (LL, CH and PC). The spacings are measured as follows:

1. Warded and Chubb
Nut centre to centre of key stem
2. Euro profile cylinder
Nut centre to centre of cylinder core
3. Oval cylinder
Nut centre to centre of oval cylinder
4. Round cylinder
Nut centre to centre of round cylinder
5. Emergency release
Nut centre to centre of emergency release
6. WC
Nut centre to centre of emergency release with indicator
7. Locking knob
Nut centre to centre of locking knob



FSB bathroom/WC versions have a knob (R) on the inside and an emergency release with an indicator (WC) on the outside. Using a coin, the lock can be opened from outside. On request, the indicator can be omitted (S). For old peoples' homes and kindergartens a stronger emergency release is offered.

Keyholes and Bathroom/WC versions

72 2.. | 76 2..
(heavy-duty version, flush)
LL and PC
Diff. keyholes/spacings on request.
WC designs acc. to details in door handles section.

17 1736 | 17 1737
(standard version, flush)
LL, PC, WC, R
Other holes and PC spacings on request.

17 1731 | 17 1735 | 17 1735 00054 | 17 1735 06054
LL, CH, PC, OZ, RZ and without holes

17 1703 | 17 1704 | 17 1704 00054
LL, CH, PC, OZ, RZ and without holes

17 1795 | 17 1796 | 14 1454–1459
LL, PC, WC, R

14 1402 | 14 1410 | 14 1445 | 14 1415 | 14 1418 | 14 1445 | 14 1486
LL, CH, PC, OZ, RZ, S, WC, R

14 1410 | 14 1407 | 14 1450 | 14 1452 | 14 1451 | 14 1453 | 14 1418 | 14 1488
LL, CH, PC, OZ, S, WC, R

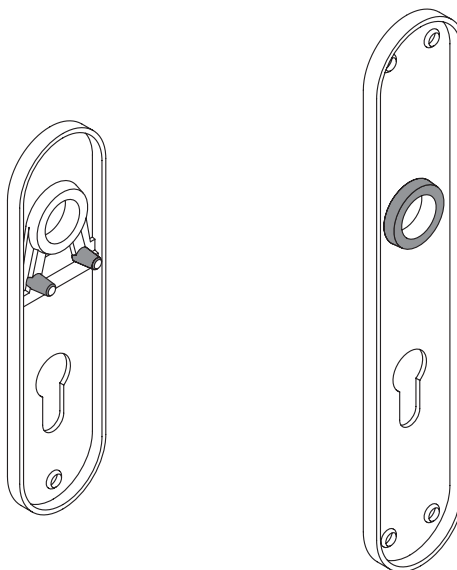
14 1429
LL, PC, WC, R ("Moon")

14 1433
LL, PC, S, WC, R

Backplates with visible screws

Apart from a visible screw to fix the backplate, standard short backplates with visible screw fixings have two supporting lugs beneath the door handle bushing, which prevent sideways movement on the surface of the door. Standard length backplates are fixed to the door with four visible screws. The screw holes are suitable for 3.9 mm countersunk screws.

Both types of backplate have a glass fibre reinforced plastic door handle bushing designed as a plain bearing.

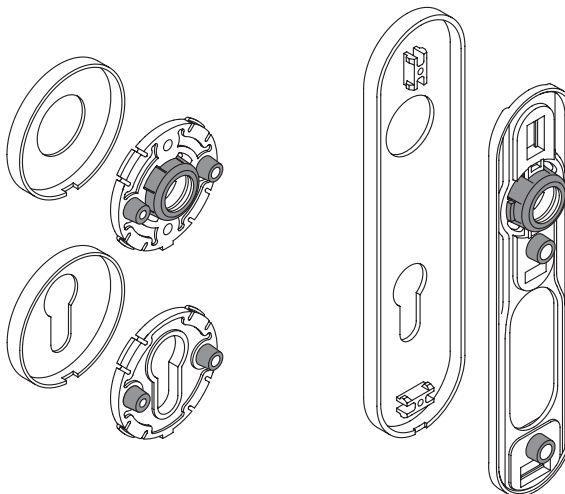


Rose with concealed fixing

The metal covering caps sit on a plastic base with two supporting lugs in the attachment area. Fixing hole spacing 38 mm.

Short, long and wide backplates with concealed fixing

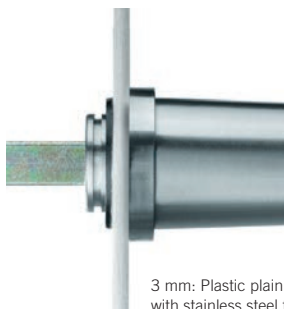
Short, long and wide backplates with invisible fixing have a base comparable to the roses made of glass fibre reinforced plastic. FSB door fittings are generally to be installed with especially matched FSB accessories. The bearings on door handles are turnably fixed (plain bearing) both in the standard and heavy-duty version (wide backplates only turnably fixed in heavy-duty version). For more information on this, please see page 27.



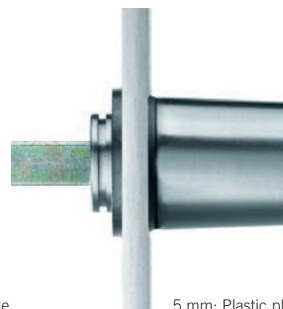
Fixing types
17 1795 | 17 1796
14 1454 – 1459

Concealed on one side: screw fixing via stainless steel threaded sleeves welded on the other side, with a supporting function, stainless steel crosshead screws.

Visible on both sides: screw fixing with crosshead sheet metal screws made of stainless steel



3 mm: Plastic plain bearings with stainless steel front guide






5 mm: Plastic plain bearings




Flush fittings

Door thicknesses from 45 mm

For technical information see
fsb.de/flush

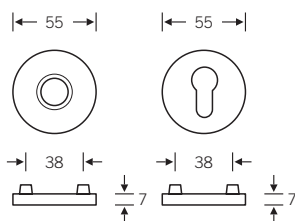


72 8.. 
 76 8.. 
 79 8.. 

 72 8..
 76 8..
 79 8..

+ Model number of the door handle
 + Type of fitting:
 813 (R) | 814 (L) Door handle fitting
 815 (R) | 816 (L) Entrance door fitting with knob 08 0802
 817 (R) | 818 (L) Entrance door fitting with knob 08 0829
 819 (R) | 820 (L) WC fitting*

Spacings:
 72 mm PC, LL
 70/78/85/88 mm PC, 90 mm LL
 70/78/90 mm WC
 74/78/94 mm CH-RZ



Technical requirements:

Minimum door thickness 45 mm; for rebated doors, the location of the cut-out for the lock body should be noted. The cut-out to accommodate the roses must be routed 7 mm deep with a Ø of 55.6 mm centred on the latch follower. The material left between the base of the routed hole and the surface of the lock must be strong enough for it to be screwed in place without applying pressure on the lock. To accommodate and fix the supporting lugs, drill 9 mm Ø holes (38 mm spacing) with a minimum depth of 7 mm – for this purpose use the FSB 03 0460 universal template.

Specification:

Door handle/rose sets, turnably fixed bearing in Teflon-coated metal bushings with a function to compensate for tolerances (AGL® 72) or with turnably fixed bearing for fire safety and smoke safety doors (AGL® FS 76 + 79), prepared for flush installation, removable, only in combination with roses 17 1731/17 1735. With a spacing of 72 or 92 mm, can also be supplied as half sets for entrance doors. Please make sure in this case that, after the routing process, a sufficiently strong wall thickness is left for fastening the half sets on one side, particularly on entrance doors that open outwards.

Ordering details:

- AGL® or AGL® FS fitting
- Door thickness
- Model of door handle*
- Keyhole
- Material/finish
- Quantity
- The required knob model for entrance door fittings (for bathroom/WC designs the bolt is supplied according to the respective door handle model)

* The following models are not available in a flush design:
 FSB 1016, 1043, 1070, 1074, 1093, 1094, 1155, 1160, 1187, 1222 and 1223

Please request others keyholes and spacings individually.

For routing template FSB 03 0462 000, see page 725f.



** WC fitting not in AGL® FS

Round flush roses

Door thicknesses 38–44 mm

For technical information see
fsb.de/flush

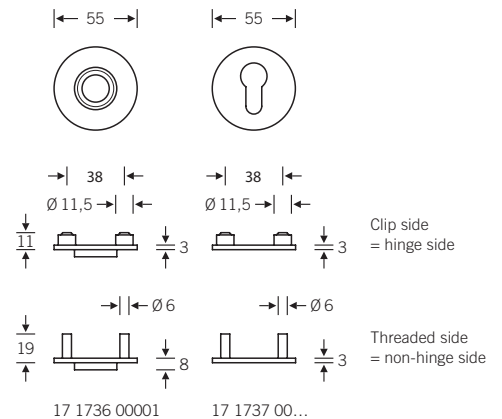


17 1736 
17 1737 

↳ 17 1736 00001
17 1737 00...

+ Type of hole:
002 (LL)
010 (PC)
154 (R/WC 8 mm)
188 (R/WC 7 mm)

Spacings:
72 mm PC, LL
70/78/85/88 mm PC, 90 mm LL
70/78/90 mm WC
74/78/94 mm CH-RZ



Technical requirements:

The door thickness must be 38–44 mm; please note the cut-out for the lock body. Use the FSB drilling template 03 0455 or universal template 03 0460 on both sides. Then, on the clip side (= hinge side) drill out the holes for the door handle and key roses to a \varnothing of 12 mm and a depth of 12 mm. When routing the door to take the roses, you should use the routing template FSB 03 0462 000. Please note that in contrast to the flush fittings (for doors from 45 mm thick) you may only route to a depth of 3 mm. The routing for the round version 17 1736/17 1737 is done with a \varnothing of 55.6 mm, 3 mm deep. The thickness left between the base of the routed hole and the surface of the

lock must be strong enough for it to be screwed in place without applying pressure on the lock.

Specification:

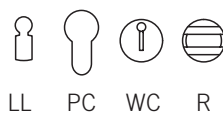
Single pairs of door handle and key roses for flush installation, can only be combined with specially prepared pairs of FSB door handles, the door handles and roses are removable.

Ordering details:

- Model of door handle*
- Keyhole
- Material/finish
- Quantity
- Door direction of opening to DIN on rebated doors in combination with asymmetrical door handles

* The following models are not available in a flush design:
FSB 1051, 1058, 1163, 1164, 1187, 1216, 1222 and 1223

Keyholes and bathroom/WC versions (please request others keyholes and spacings individually)



For routing template FSB 03 0462 000, see page 725f.

Rectangular flush roses

Door thicknesses 38–44 mm

For technical information see
fsb.de/flush

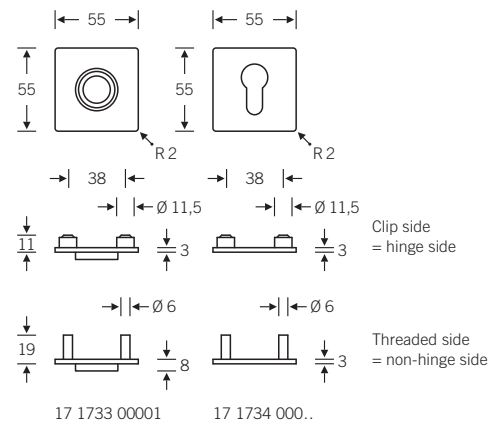


17 1733 ■
 17 1734 ■

17 1733 00001
 17 1734 00...

+ Type of hole:
 002 (LL)
 010 (PC)
 154 (R/WC 8 mm)

Spacing:
 72 mm LL, PC, 8/78 mm WC



Technical requirements:

The door thickness must be 38–44 mm; please note the cut-out for the lock body. Use the FSB drilling template 03 0455 or 03 0460 on both sides. Then, on the clip side (= hinge side) drill out the holes for the door handle and key roses to a \varnothing of 12 mm and a depth of 12 mm. When routing the door to take the roses, you should use the routing template FSB 03 0462 00030. Please note that in contrast to the flush fittings (for doors from 45 mm thick) you may only rout to a depth of 3 mm. The routing for the rectangular version 17 1733/17 1734 is done with dimensions of 55.6 × 55.6 mm with a corner radius of 2 mm. Please use a router with a \varnothing of 4 mm.

The specified radius of 2 mm is then made automatically using the routing template 03 0462 00030. The thickness left between the base of the routed hole and the surface of the lock must be strong enough for it to be screwed in place without applying pressure on the lock.

Specification:

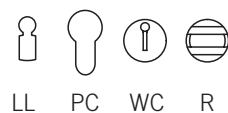
Single pairs of square door handle and key roses for flush installation, can only be combined with specially prepared pairs of FSB door handles, the door handles and roses are removable.

Ordering details:

- Model of door handle*
- Keyhole
- Material/finish
- Quantity
- Door direction of opening to DIN (for rebated doors in combination with asymmetrical door handles)

* The following models are not available in a flush design:
 FSB 1051, 1058, 1163, 1164 and 1187

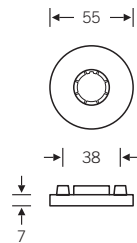
Keyholes and bathroom/WC versions (please request others keyholes and spacings individually)



For routing template FSB 03 0462 000, see page 726

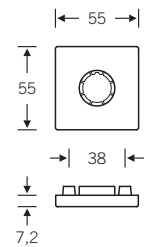
17 1731 | 17 1743

17 1731 01801 (with lugs)
17 1743 01801 (without lugs)



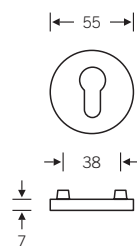
17 1703 | 17 1711

17 1703 01801 (with lugs)
17 1711 01801 (without lugs)



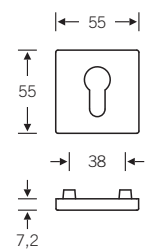
17 1735 | 17 1744

17 1735 (with lugs)
17 1744 (without lugs)



17 1704 | 17 1712

17 1704 (with lugs)
17 1712 (without lugs)



fsb.de/171731
fsb.de/171743
fsb.de/171735
fsb.de/171744

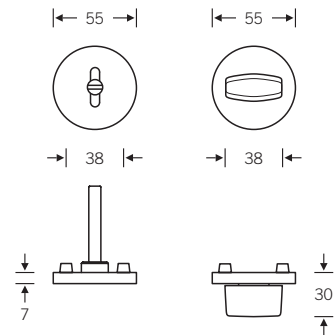
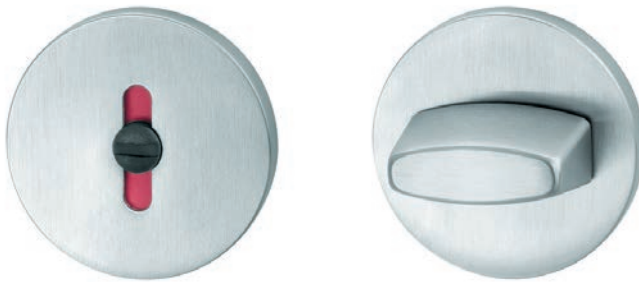
fsb.de/171703
fsb.de/171711
fsb.de/171704
fsb.de/171712

WC locks round

For technical information see page 268f.

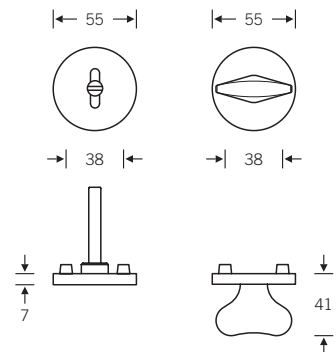
17 1735 | 17 1744 

17 1735 00054 (with lugs)
17 1744 00054 (without lugs)



17 1735 | 17 1744 
Design: Jasper Morrison

17 1735 06054 (with lugs)
17 1744 06054 (without lugs)



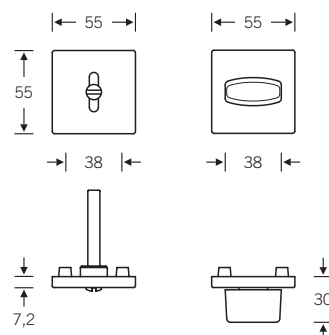
fsb.de/171735
fsb.de/171744

WC locks rectangular

For technical information see page 268f.

17 1704 | 17 1712 

17 1704 00054 (with lugs)
17 1712 00054 (without lugs)

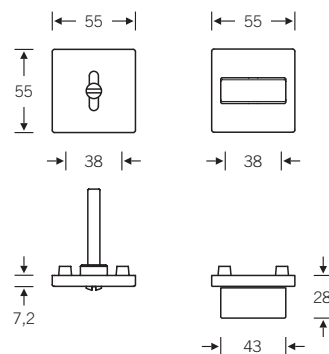


3b

17 1704 | 17 1712 

Design: Hadi Teherani

17 1704 07254 (with lugs)
17 1712 07254 (without lugs)



fsb.de/171704
fsb.de/171712

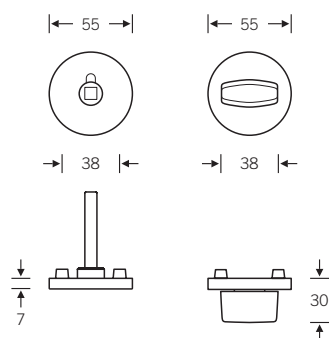
Emergency release for special circumstances

For technical information see page 268f.

17 1735 | 17 1744



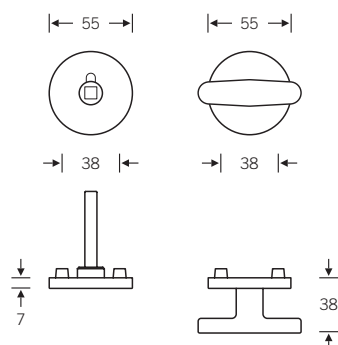
17 1735 07654 (with lugs)
17 1744 07654 (without lugs)



17 1732



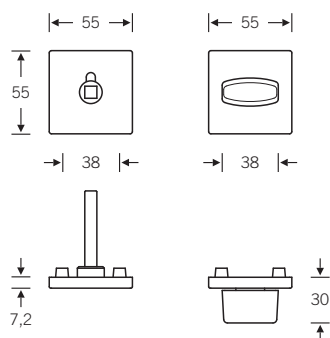
17 1732 00054 (with lugs)*
through screw fixings



17 1704 | 17 1712



17 1704 07654 (with lugs)
17 1712 07654 (without lugs)



fsb.de/171735
fsb.de/171744
fsb.de/171732
fsb.de/171704
fsb.de/171712

* Ergonomically optimised for one-handed use. If needed, the emergency release from 17 1732 can also be offered on backplates. Please enquire.

34 3464 Key for emergency release,
please order separately



17 1795 ■

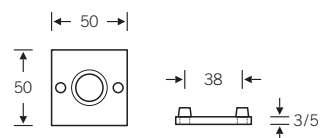


17 1795 001 (material thickness 3 mm)
17 1795 011 (material thickness 5 mm)
screws visible on both sides

17 1795 002 (material thickness 3 mm)
17 1795 012 (material thickness 5 mm)
screws concealed on one side

With stainless steel supporting lugs
Screw hole spacing 38 mm
Corner radius 2 mm

Illustration:
3 mm material thickness, screws visible on both sides, with stainless steel spacer ring, versions with turnably fixed door handles are possible, please specify the required FSB door handle model when ordering.



17 1796 ■

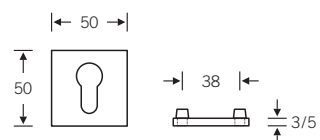


17 1796 001 (material thickness 3 mm)
17 1796 011 (material thickness 5 mm)
screws visible on both sides

17 1796 002 (material thickness 3 mm)
17 1796 012 (material thickness 5 mm)
screws concealed on one side

With stainless steel supporting lugs
Screw hole spacing 38 mm
Corner radius 2 mm

Illustration:
3 mm material thickness, screw fixings concealed on one side, PC hole



fsb.de/171795
fsb.de/171796

14 145. ■



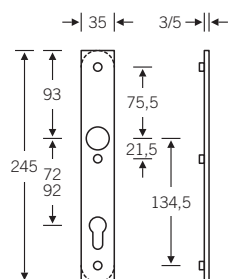
14 1458 ... (rectangular, 35 × 245 mm)
 14 1459 ... (round, 35 × 245 mm)

001 (material thickness 3 mm)
 011 (material thickness 5 mm)
 screws visible on both sides

002 (material thickness 3 mm)
 012 (material thickness 5 mm)
 screws concealed on one side

Illustration left:
 5 mm material thickness, screws visible on both sides, door handle bushing made of glass fibre reinforced plastic

Illustration right:
 3 mm material thickness, screw fixings concealed on one side, with stainless steel spacer ring



14 1458 ... (rectangular)
 14 1459 ... (round)

14 145.

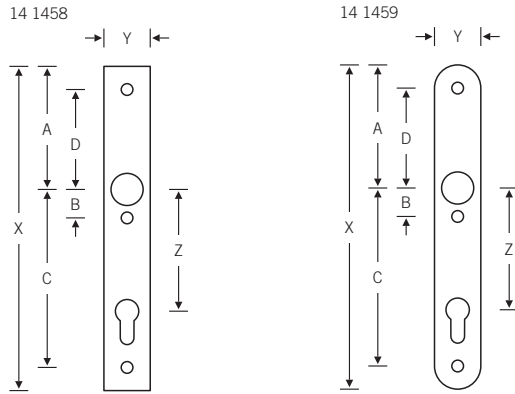
Fax form for custom manufacture of cut backplates with stainless steel supporting lugs (please configure in the table, using the adjacent illustrations)

Standard version rectangular:

14 1458 (rectangular, 35 × 245 mm)

Standard version round:

14 1459 (round, 35 × 245 mm)



3b

	14 1458	14 1459
Backplate thickness	<input type="checkbox"/> 3 mm <input type="checkbox"/> 5 mm	<input type="checkbox"/> 3 mm <input type="checkbox"/> 5 mm
Door thickness		
Length X		
Width Y		
Dimension A		
Dimension B		
Dimension C		
Dimension D		
Spacing Z		
Holes		
Screw fixings (visibility)	<input type="checkbox"/> one side <input type="checkbox"/> both sides	<input type="checkbox"/> one side <input type="checkbox"/> both sides
Handle bearing	<input type="checkbox"/> loose <input type="checkbox"/> turnably fixed*	<input type="checkbox"/> loose <input type="checkbox"/> turnably fixed*
* only for screw fixings visible one side		

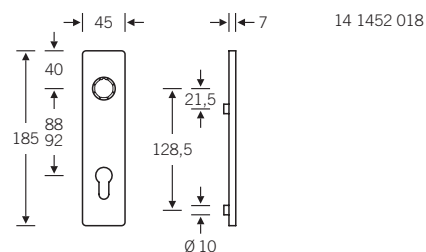
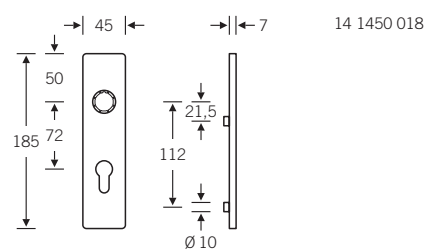
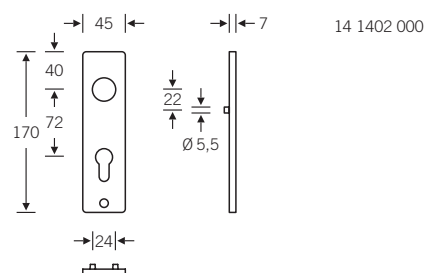
- 14 1402
- 14 1450
- 14 1452

14 1402 000 (screws visible)
Spacing 72 mm

14 1450 018 (screws concealed)
Spacing 72 mm






14 1452 018 (screws concealed)
Spacing 88 + 92 mm

For drilling templates see page 727



fsb.de/141402
fsb.de/141450
fsb.de/141452

For holes see page 268

14 1410   
 14 1407 
 14 1445 

14 1410 000 (screws visible)*
 Spacing 72 + 88 + 92 mm

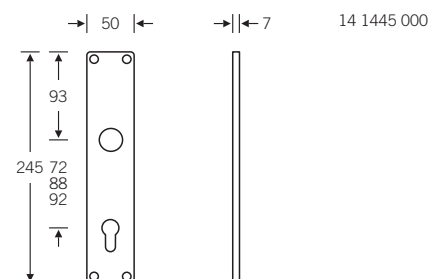
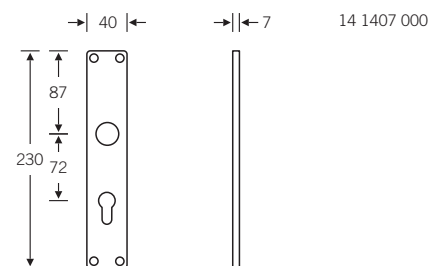
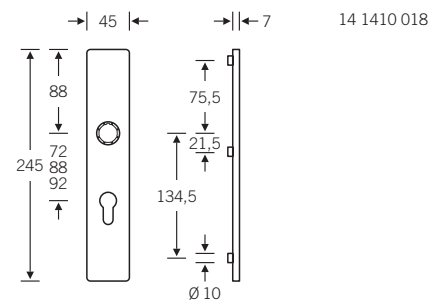
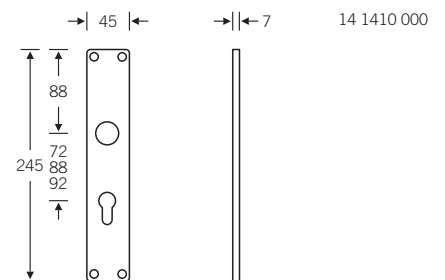
14 1410 018 (screws concealed)
 Spacing 72 + 88 + 92 mm

14 1407 000 (screws visible)
 Spacing 72 mm

14 1445 000 (screws visible)
 Spacing 72 + 88 + 92 mm

For drilling templates see page 728

3b



fsb.de/141410
 fsb.de/141407
 fsb.de/141445

For holes see page 268

* not in bronze

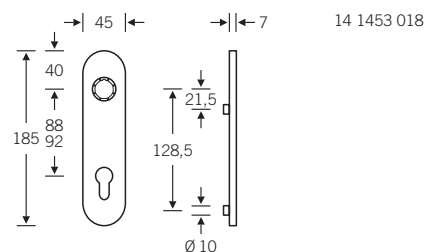
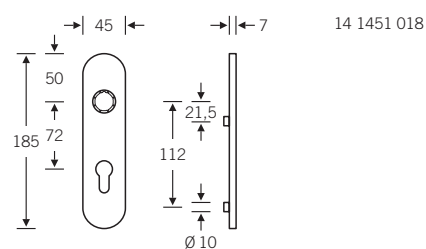
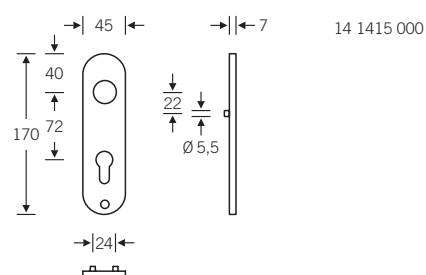
- 14 1415
- 14 1451
- 14 1453

14 1415 000 (screws visible)
Spacing 72 mm

14 1451 018 (screws concealed)
Spacing 72 mm

14 1453 018 (screws concealed)
Spacing 88 + 92 mm

For drilling templates see page 727



fsb.de/141415
fsb.de/141451
fsb.de/141453

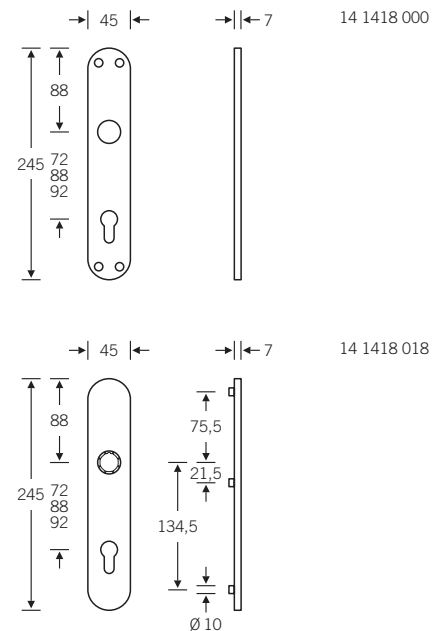
For holes see page 268

14 1418 

14 1418 000 (screws visible)*
Spacing 72 + 88 + 92 mm

14 1418 018 (screws concealed)
Spacing 72 + 88 + 92 mm

For drilling templates see page 728



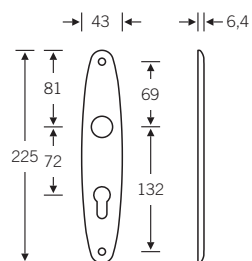
fsb.de/141418

For holes see page 268

* not in brass and bronze

14 1429 ■

14 1429 000 (screws visible)
Spacing 72 + 8/78 mm



Wide backplates

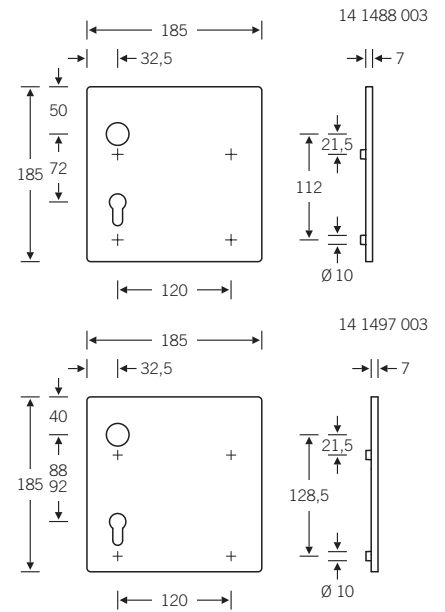
Corner radius 4 mm

For technical information see page 268f.

14 1488 | 14 1497 

14 1488 003 (screws concealed)
14 1497 003 (screws concealed)

Corner radius 4 mm

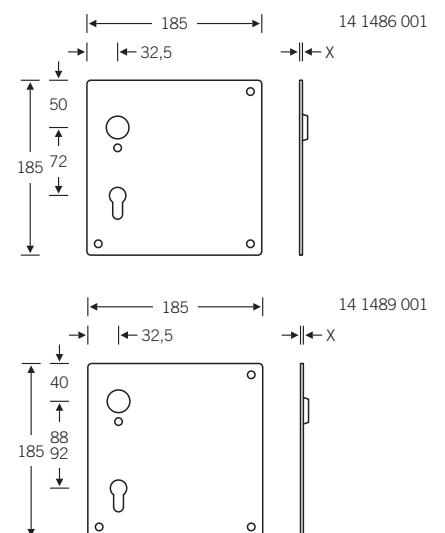


3b

14 1486 | 14 1489 


14 1486 001 (screws visible)
14 1489 001 (screws visible)

Aluminium X = 3 mm
Stainless steel X = 2 mm
Corner radius 4 mm



fsb.de/141488
fsb.de/141497
fsb.de/141486
fsb.de/141489

For holes see page 268
For drilling templates see page 728

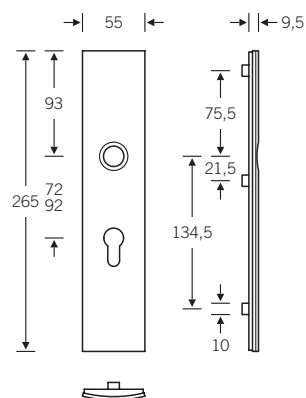
14 1433 

14 1433 003 (screws concealed)
Spacing 72 + 92 mm

The FSB 14 1433 backplate was especially developed for renovations, with its width of 55 mm it is ideal to conceal the traces of the old fittings on the door.

Together with its black base, this lightly bowed backplate is invisibly screwed to the door and seems to float.

For drilling template 03 0476
see page 728



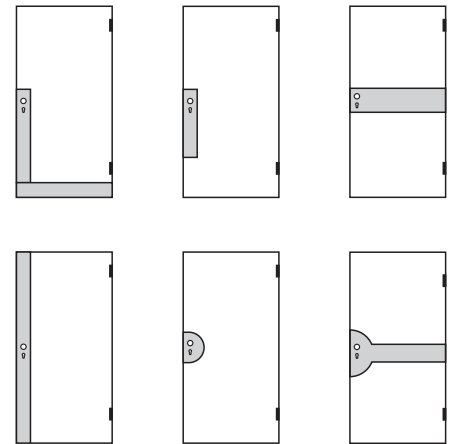
Finger plates and kick plates

Kick plates and finger plates

To prevent soiling and damage to doors, FSB offers finger plates for areas where hands touch the door and kick plates for areas where feet touch the door. Kick plates and finger plates are made in aluminium and stainless steel in a variety of thicknesses.

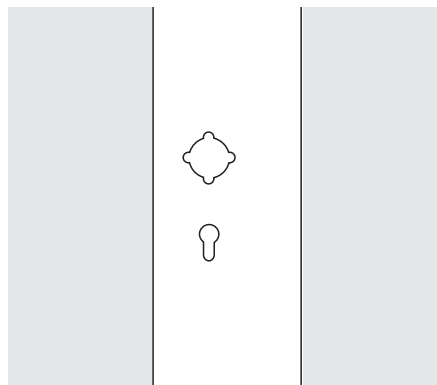
With and without screw holes

As standard for assembly, the FSB kick plates and finger plates have countersunk holes suitable for 3 mm countersunk screws. When expressly requested by the customer, kick plates and finger plates can also be made and supplied without screw holes, but with a self-adhesive film. To fit plates like this the user must be very experienced and must be very careful. Above all, the surface of the door must be perfectly smooth, free from grease and clean prior to application.



Cutouts

Finger plates are generally prepared to take roses and backplates. By default, FSB supplies finger plates with punched out cut-outs for the door handle roses (uniformly suitable for rose fittings and isis rose sets) and with a punched out PC hole for a Euro cylinder.



Fold overs

Fold overs are possible for kick plates and finger plates. For proper manufacture an exactly dimensioned drawing must be supplied which shows the tolerances to be expected in the construction. If no detailed, dimensioned drawing is supplied, FSB will consider the dimensions specified as internal dimensions for simple bends. This applies especially for doors with a rebate.

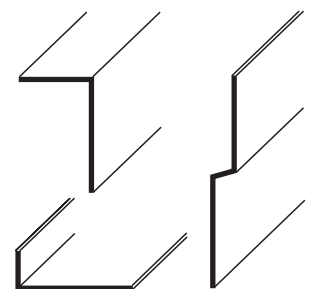
Shapes

Many variants of finger plates and kick plates are possible. FSB simply appeals to the designer's imagination and is happy to supply quotations after receiving dimensioned sketches. FSB can use drawings supplied in .dxf or .dwg format directly.

Risk of injury

Kick plates, ventilation plates, ventilation grilles, ventilation cladding and perforated sheets are made of thin, sharp-edged material.

During installation, care should be taken to ensure that the material is clean and makes good contact, with no gaps. We would ask you to be extremely careful when unpacking, installing, checking the seating and subsequent use. Improper handling – even during cleaning work – can lead to injuries.



All illustrations to the right

Drawings are for right-hand doors (to DIN)
 Plate with rebate to the right
 Plate without rebate to the left

Material thicknesses: 1, 1.5 and 2 mm

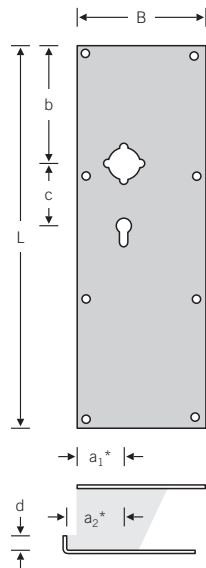
Brass: only surface FSB 4305
 Brass – polished, waxed

Bronze: only surface FSB 7305
 Bronze – polished, waxed and only in
 a thickness of 1 mm

Please generally specify required material
 thickness when placing orders

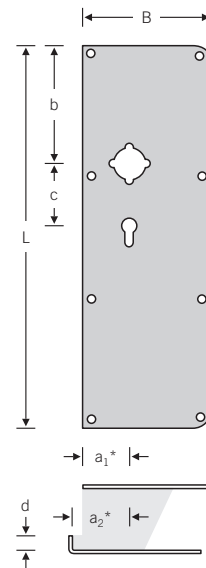
51 5300 | 51 5310

51 5300 (without rebate)
 51 5310 (with rebate)



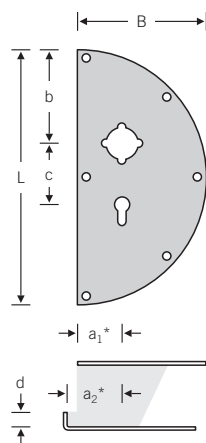
51 5320 | 51 5330

51 5320 (without rebate)
 51 5330 (with rebate)



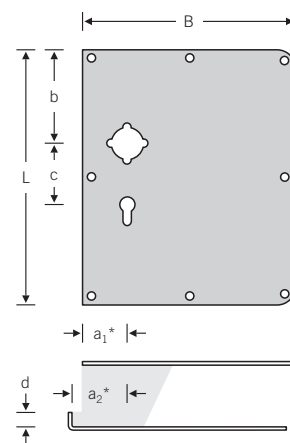
51 5340 | 51 5350

51 5340 (without rebate)
 51 5350 (with rebate)



51 5360 | 51 5370

51 5360 (without rebate)
 51 5370 (with rebate)



fsb.de/515300
fsb.de/515310
fsb.de/515340
fsb.de/515350

fsb.de/515320
fsb.de/515330
fsb.de/515360
fsb.de/515370

Cutouts

Finger plates can be prepared with cutouts to take roses or backplates. The version required must be exactly described for this. It is simplest if the roses or backplates to be used are specified via their order numbers. The adjacent versions are conceivable:

Version 1

Door handle rose at top (e.g. 17 1731), punched out keyhole at bottom (e.g. PC)

Version 2

Door handle rose on top, key rose underneath (e.g. 17 1731, 17 1735), also suitable for isis rose sets

Version 3

Backplate with visible screws (e.g. 14 1402)

Version 4

Backplate with concealed screws (e.g. 14 1450)

Other versions

On request, FSB can produce other shapes of finger plate by nibbling or by laser cutting. Please send us your dimensioned sketch. We will produce our own drawing and provide you with a quotation. FSB can use drawings supplied in .dxf or .dwg format directly.

Quantity	No.	right left	L length	B width	a ₁ * backset	a ₂ * backset	b spacing	c keyhole spacing	d Width of fold/ inner dim. of rebate	Cutout versions with details of order numbers for roses and backplates used				Holes	
			mm	mm	mm	mm	mm	mm	mm	mm	1	2	3	4	LL

* Please note: For rebated doors, when ordering finger plates depending on the side of the door and the width of the rebate, specific backsets a₁ and a₂ must be specified.

Our experience is that just specifying the lock's backset is not sufficient. According to DIN 18 101 (rebated doors for domestic premises) you can presume a rebate width of 13 mm. a₂ can be calculated by adding the backset a₁ + width of the rebate.

If there is any doubt, we do however recommend checking this with a measurement. For doors without a rebate, it is not necessary to specify dimension a₂ as it is the same as a₁.

51 522. 

51 5222 (sheet thickness 1 mm)
51 5223 (sheet thickness 1.5 mm)
51 5224 (sheet thickness 2 mm)

Bronze: only available in 1 mm sheet thickness and with a maximum sheet size 1,250 × 300 mm

Brass: only surface FSB 4305
Brass – polished, waxed

Bronze: only surface FSB 7305
Bronze – polished, waxed



fsb.de/515222
fsb.de/515223
fsb.de/515224

Painted versions of kick plates are not available.



300 Knob handles

3c


304 Door knobs

312 Combined knob & backplates

Overview

08 0802 
08 0803 
Page 300




08 0804 
Page 300




08 0826 
Page 301




08 0828 
Page 301




08 0829 
Page 302




08 0844 
Page 302



08 0880 
Page 303




23 0802 
Page 304




23 0803 
Page 304




23 0804 
Page 305




23 0811 
Page 305




23 0826 
Page 306




23 0828 
Page 306




23 0829 
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23 0833 
Page 309




23 0839 
Page 307



23 0844 
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23 0873 
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23 0880 
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23 0809 
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23 0812 
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23 0846 
Page 311




23 0854 
Page 311





3c

19 1923 
19 1964 
Page 312



19 1927 
Page 312



19 1966 
19 1963 
Page 313



19 1970 
Page 313





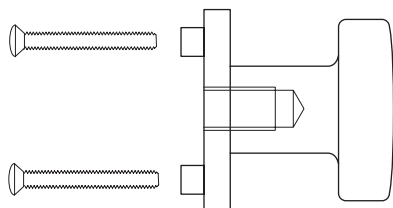
Door knobs and knob handles, very unjustly, lead a shadowy existence. Admittedly they lack the ergonomic benefits of the handle, which the door pull naturally brings along, and on entrance doors they are often an inferior option compared to security fittings or impressive door pulls. Hadi Teherani has therefore proved that things can also be different: combined with our rectangular security rose FSB 73 7397 (see page 597), his equally square-shaped door knob FSB 23 0873 (see page 309) produces a symbolically graphic image that sheds new light on entrance door pulls.

Technical information

Knobs/Types of fixing

Door knobs on roses

Concealed through fixing (06)



There are two types of fixing for door knobs permanently attached to roses: through fixing and concealed face fixing.

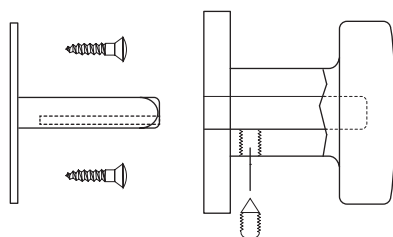
Prepared for M5 screws with protruding threaded lugs 38 mm apart. The rose used on the other side of the door also has a knob attached but with unthreaded M5 lugs: FSB 17 1731 019 or FSB 17 1703 019.

The M5 screws are 45 mm long and are suitable for doors from 37–46 mm thick. For other door thicknesses, screws with a length varying in steps of 10 mm must be used (FSB 05 0308 005), see page 714 too.

When installing like this an FSB solid half-spindle 05 0177 / 05 0107 (see page 708) must be fitted to the knob by screwing it into the knob's M12 thread (13 mm spanner), to allow a rotating connection to the opposing door knob. The FSB solid half-spindle must be ordered separately.

Door knobs on roses

Concealed face fixing (05)



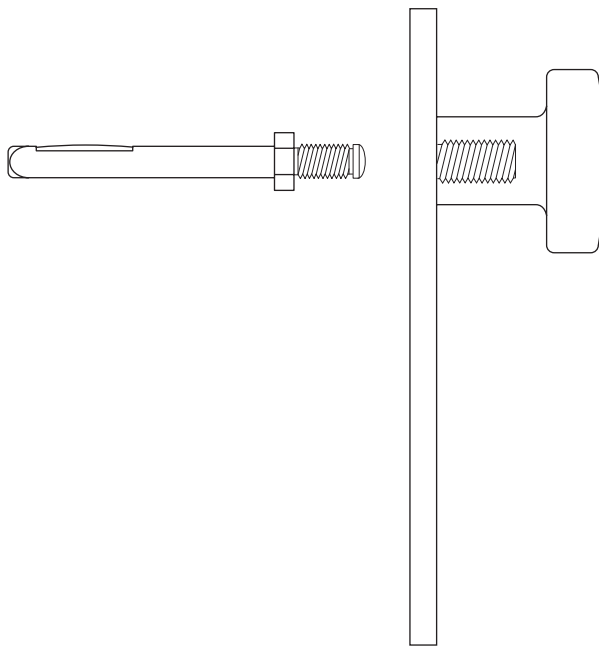
For the concealed face fixing of a door knob, a steel subassembly must first be screwed to the door.

The door knob is then put on the subassembly's 8 mm □ pin and is fixed in place with a grub screw.

Care must be taken that the subassembly is correctly positioned when fixing it, so that the grub screw can enter the slot on the pin (see the adjacent illustration). The knob is correctly fitted when the outer end of the grub screw is flush with the surface of the neck.

Combined knob & backplates

Concealed through fixing
Visible face fixing



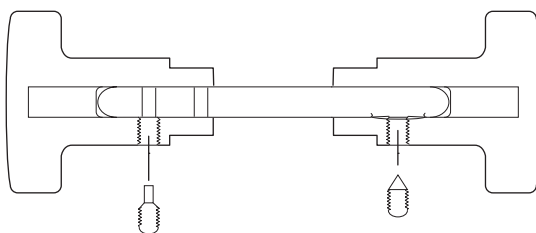
For combined knob & backplates, FSB supplies the door knobs permanently fixed to the backplates.

All FSB combined knob & backplates have an M12 thread to accommodate the supplied FSB solid half-spindle. Before installing the combined knob & backplate, screw the FSB solid half-spindle 05 0177/05 0107 (see page 708) firmly into the neck of the knob (13 mm spanner). Only then install the backplate and spindle onto the door and then continue with the installation on the other side of the door. The FSB solid half-spindle must be ordered separately.

3c

Knob handles

Can be freely combined with roses and backplates with visible and concealed screw fixings



FSB makes and delivers knob handles with holes to accommodate separate spindles.



Pairs of knob handles are then installed with an FSB solid spindle 05 0102 (see page 710).

When installing, the FSB solid spindle is first fixed to one of the knob handles by screwing in the special grub screw supplied into the hole intended for that purpose. This has generally only been done correctly when the head of the grub screw is level with the surface of the knob's neck. The other fitting then corresponds to the rules for the FSB solid spindle, see page 706.

Of course you can also combine knob handles with suitable FSB half-spindles so that they only turn on the inside in backplates and roses, with a fixed knob or combined knob & backplate outside.

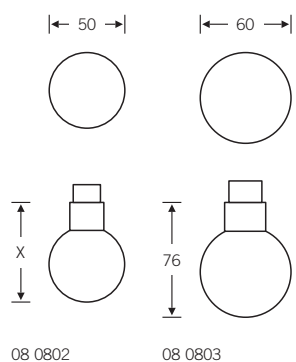
Knob handles

For technical information see page 298f.

08 0802 
 08 0803 

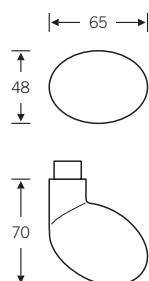
Aluminium X = 70 mm
 Stainless steel X = 66 mm
 Bronze X = 65 mm
 Brass X = 65 mm

8 + 10* mm □ hole



08 0804 

8 mm □ hole



fsb.de/080802
 fsb.de/080803
 fsb.de/080804

* 10 mm not in brass and bronze

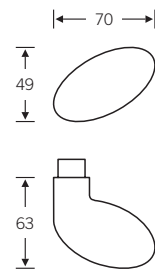
08 0826 ■

Design: Hartmut Weise

08 0826 00044 (R)
08 0826 00045 (L)

8 mm □ hole

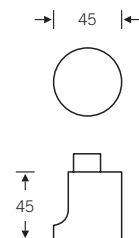
Illustration: right



3c

08 0828 ■ ■

Aluminium: 8 mm □ hole
Stainless steel: 8 + 10 mm □ hole

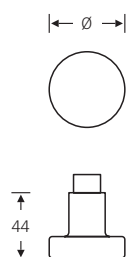


fsb.de/080826
fsb.de/080828

08 0829 

Aluminium $\varnothing = 50$ mm
Stainless steel $\varnothing = 55$ mm
Bronze $\varnothing = 50$ mm

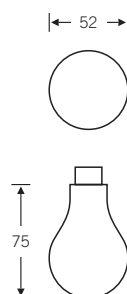
8 + 10 mm* \square hole



08 0844 

Design: Jasper Morrison

8 mm \square hole

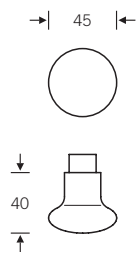


fsb.de/080829
fsb.de/080844

* 10 mm not in bronze

08 0880 

8 mm □ hole



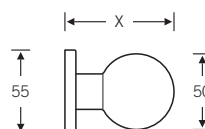
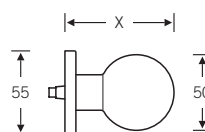
3c

23 0802 

23 0802 00005 (face fixing)
23 0802 00006 (through fixing)

Screw hole spacing 38 mm

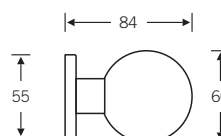
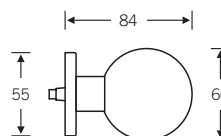
Aluminium X = 77 mm
Stainless steel X = 73 mm
Brass X = 72 mm
Bronze X = 72 mm



23 0803 

23 0803 00005 (face fixing)
23 0803 00006 (through fixing)

Screw hole spacing 38 mm

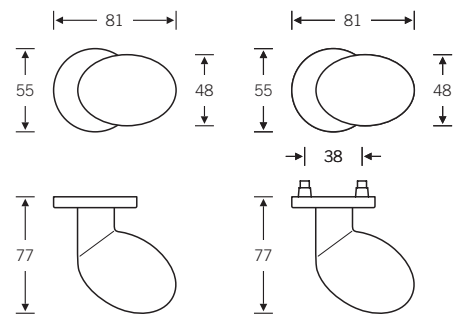


fsb.de/230802
fsb.de/230803

23 0804 

23 0804 00005 (face fixing)
23 0804 00006 (through fixing)

Screw hole spacing 38 mm



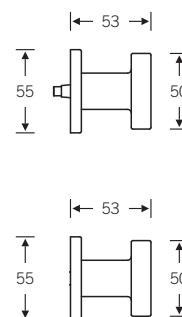
3c

23 0811 

23 0811 00025 (face fixing)
23 0811 00026 (through fixing)

Screw hole spacing 38 mm

In aluminium, only available in natural anodised finish (FSB 0105)



fsb.de/230804
fsb.de/230811

23 0826

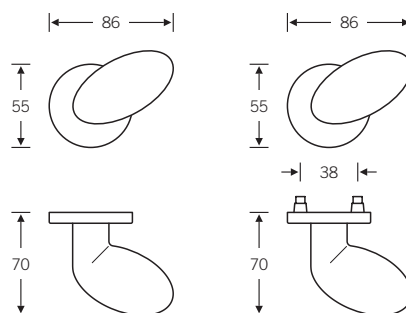
Design: Hartmut Weise

23 0826 00435 (R) | 23 0826 00535 (L)
Face fixing

23 0826 00436 (R) | 23 0826 00536 (L)
Through fixing

Screw hole spacing 38 mm

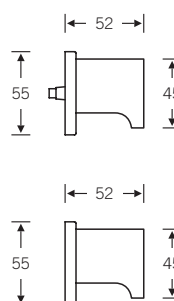
Illustration: right



23 0828

23 0828 00005 (face fixing)
23 0828 00006 (through fixing)

Screw hole spacing 38 mm



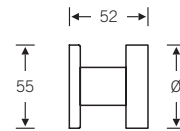
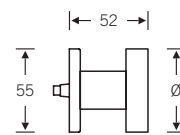
fsb.de/230826
fsb.de/230828

23 0829 

23 0829 00005 (face fixing)
23 0829 00006 (through fixing)

Screw hole spacing 38 mm

Aluminium $\varnothing = 50$ mm
Stainless steel $\varnothing = 55$ mm
Bronze $\varnothing = 50$ mm



3c

23 0839 

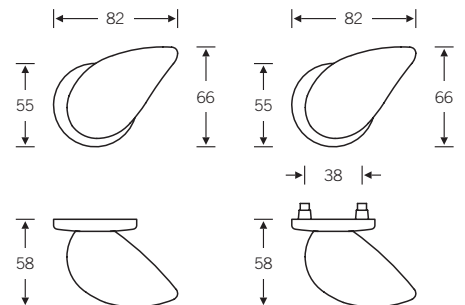
Design: Philippe Starck

23 0839 00435 (R) | 23 0839 00535 (L)
Face fixing


23 0839 00436 (R) | 23 0839 00536 (L)
Through fixing

Screw hole spacing 38 mm

Illustration: right



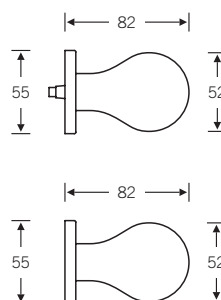
fsb.de/230829
fsb.de/230839

23 0844 

Design: Jasper Morrison

23 0844 00005 (face fixing)
23 0844 00006 (through fixing)

Screw hole spacing 38 mm

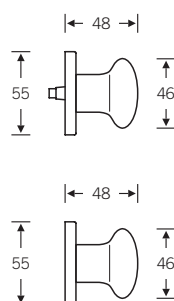


23 0880 

Design: Christoph Mäckler

23 0880 00035 (face fixing)
23 0880 00036 (through fixing)

Screw hole spacing 38 mm



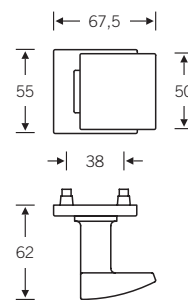
fsb.de/230844
fsb.de/230880

23 0833 

Design: Hans Kollhoff

23 0833 00026 (through fixing)

Screw hole spacing 38 mm



3c

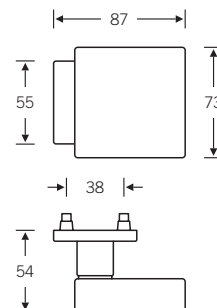
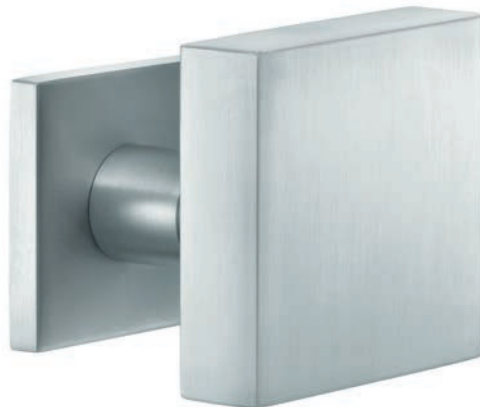
23 0873 

Design: Hadi Teherani

23 0873 00026 (through fixing)

Screw hole spacing 38 mm

Owing to the large knob size, can also be used offset.



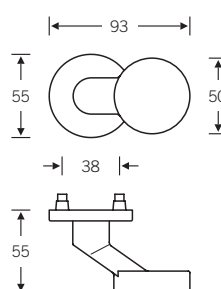
fsb.de/230833
fsb.de/230873


Both door knobs in aluminium only available in natural anodised finish (FSB 0105)

23 0809 

23 0809 00006 (through fixing)

Screw hole spacing 38 mm

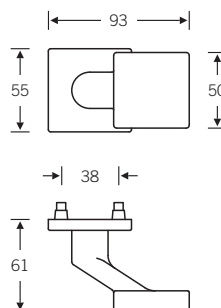


23 0812 

23 0812 00026 (through fixing)

Screw hole spacing 38 mm

In aluminium only available in natural anodised finish (FSB 0105)

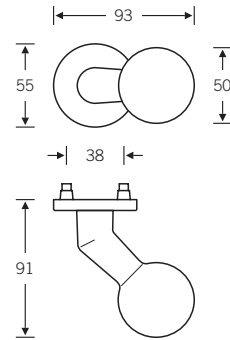


fsb.de/230809
fsb.de/230812

23 0846 

23 0846 00006 (through fixing)

Screw hole spacing 38 mm

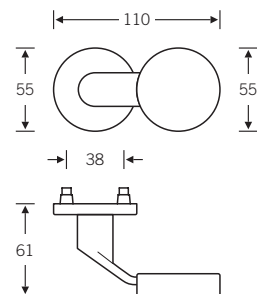


3c

23 0854 

23 0854 00006 (through fixing)



Screw hole spacing 38 mm

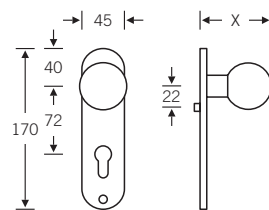


fsb.de/230846
fsb.de/230854

Combined knob & backplates

For technical information see page 298f.

19 1923 
 19 1964 



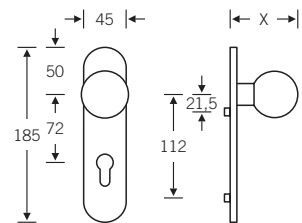
19 1923 000

19 1923 000 (visible fixing)
 19 1964 003 (concealed fixing)

Spacing 72 mm

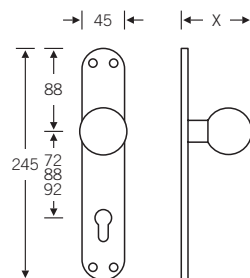
Aluminium X = 77 mm
 Stainless steel X = 73 mm
 Bronze X = 72 mm
 Brass X = 72 mm

For drilling template see page 727



19 1964 003

19 1927 



19 1927 000

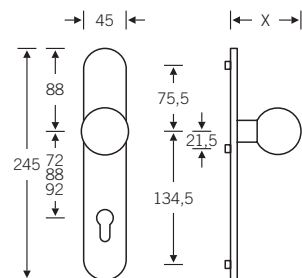
19 1927 000 (visible fixing)*
 19 1927 003 (concealed fixing)

Spacing 72, 88 + 92 mm

Aluminium X = 77 mm
 Stainless steel X = 73 mm
 Bronze* X = 72 mm
 Brass* X = 72 mm

For drilling template see page 728

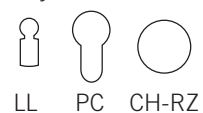
* not in bronze and brass



19 1927 003

fsb.de/191923
fsb.de/191964
fsb.de/191927

Keyholes



Combined knob & backplates

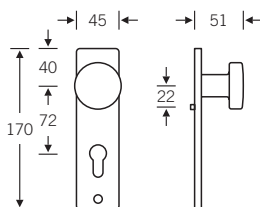
For technical information see page 298f.

19 1966 
 19 1963 

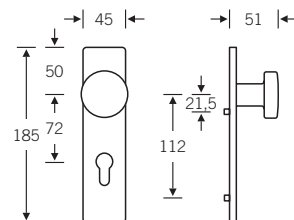
19 1966 000 (visible fixing)
 19 1963 003 (concealed fixing)

Spacing 72 mm

For drilling template see page 727



19 1966 000



19 1963 003

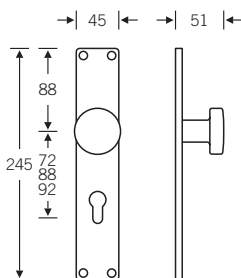
19 1970 

19 1970 000 (visible fixing)*
 19 1970 003 (concealed fixing)

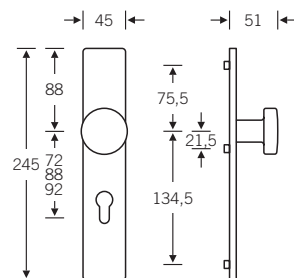
Spacing 72, 88 + 92 mm

For drilling template see page 728

* not in bronze



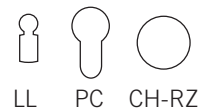
19 1970 000



19 1970 003

fsb.de/191966
fsb.de/191963
fsb.de/191970

Keyholes



322	Window handles	3d
346	Lockable window handles	
350	Window handles designed for single profile cylinders	
352	Window locks	
353	Budget lock roses	
354	Parallel sliding tilt fittings	
356	Fittings for lifting/sliding doors	

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34 1135 
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34 1144 
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34 1163 ■ ■ ■ ■
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34 1171 ■ ■ ■ ■
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34 1173 ■ ■ ■ ■
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34 1176 ■ ■ ■ ■
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34 1183 ■ ■ ■ ■
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34 1186 ■ ■ ■ ■
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34 1206 ■ ■ ■ ■
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34 1222 ■ ■ ■ ■
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34 007 ■ ■ ■ ■
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34 09010 ■ ■ ■ ■
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34 3402 ■ ■ ■ ■
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34 3453 ■ ■ ■ ■
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42 4215 
Page 355, 359





Window handle FSB 34 1035, design: Heike Falkenberg,
flush version, see pages 323 and 328

When it comes to practised handle culture, it is taken for granted that window handles match the handle design of interior doors. In this section, not only will you discover a unique variety of designs and materials, but also our functional solutions like lockable window handles, handles for large sliding elements or our charming window fasteners reminiscent of the 19th and 20th century.

Technical information

Window handles

The FSB click-stop mechanism

All FSB window handles with click-stop mechanism and roses 14 mm deep conform to the RAL quality standard.

The RAL Quality Association has defined specifications for window handles that are designed to ensure consistent quality and performance over many years. The FSB click-stop mechanism enables windows to be closed, tilted or opened correctly. This FSB technology consists of steel ball bearings in a rugged GFR plastic housing. They ensure that whenever the window is operated, the handle audibly and tangibly clicks into place. Handles can be optionally supplied with a 45° setting for ventilation.

FSB supplies window handles with and without a click-stop mechanism:

Product numbers 34 ... 008 or 068
Window handle heavy-duty version, with click-stop mechanism in RAL quality:

- concealed fixing method
- gap between mounting holes 43 mm
- lugs Ø 10 mm
- rose depth 14 mm
- 7 mm □ spindle, projecting 34 mm
- alternatively with lugs Ø 12 mm, or completely without lugs

Product numbers 34 ... 09010
Window handle heavy-duty version version, rose flush with window profile, with click-stop mechanism in RAL quality:

- concealed fixing method
- gap between mounting holes 43 mm
- rose depth 13 mm
- 7 mm □ spindle, projecting 22 mm

Product numbers 34 ... 007 or 067
Window handle heavy-duty version version, click-stop mechanism recessed into profile, rose flat (not RAL quality):

- concealed fixing method
- gap between mounting holes 43 mm
- lugs Ø 10 mm
- rose depth 5 mm
- 7 mm □ spindle, projecting 34 mm

Product numbers 34 ... 000
Window handle standard version, rose flat:

- visible fixing method
- gap between mounting holes 43 mm
- lugs Ø 10 mm (FSB 34 1135 in stainless steel and brass, in aluminium without lugs)
- rose depth 3 mm
- without lugs (FSB 34 3401, 34 3402, 34 3404, 34 3480)
- rose depth 7 mm
- 7 mm □ spindle, projecting 30 mm

The standard spindle projection on the windows handles kept in stock is 34 mm according to the 2014 manual. Over and above that, the models FSB 1015, 1023, 1070, 1076, 1107 and 1108 and the lockable window handle 3495 are also available from stock with spindle projections of 24, 30 and 38 mm. Experience shows that the above-mentioned spindle projections can be used on the gearing mechanism with a tolerance of +/- 1 mm. i.e. a spindle projection of e.g. 38 mm is practical in most cases when the theoretical spindle projection specified by the profile manufacturer lies in a range of 37 to 39 mm. However, different profile systems require specific spindle projections now and then. FSB supplies these on a job-by-job basis – please specify these when ordering. Window handles are supplied without screws. M5 oval-head screws should be used for fixing purposes. Please bear in mind in this regard: shortening the square spindle yourself results in a loss of warranty!

Classification key according to DIN 13 126-3

For window handles with click-stop mechanism

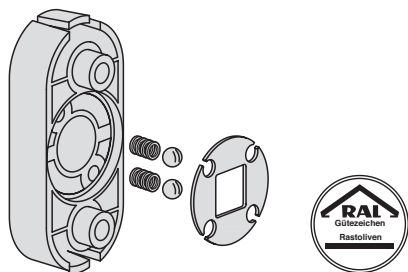
2	5/180	-	0	1	3*	0/0	3/C1	-
---	-------	---	---	---	----	-----	------	---

* Finishes brass, bronze, class 0

For lockable window handles

2	5/180	-	0	1	3*	3/3	3/C1	-
---	-------	---	---	---	----	-----	------	---

* Finishes brass, bronze, class 0



Click-stop mechanism according to RAL quality standard

This special FSB technology consists of steel ball bearings in a rugged GFR plastic housing.

Lockable window handles

For lockable window handles, design requirements and tests are set out in the RAL-GZ quality standard. Window handles that meet these high requirements are awarded the RAL label. DIN EN 13 126-3 has also been in place at European level since September 2012. Different classes were defined here for various requirements regarding permanent function and resistance. FSB achieved the highest class in this standard with the quality design. Besides the quality of the click-stop mechanism, the pull-out force of the spindle and the torque resistance of the locking cylinder, the test for twisting or tearing off the window handle is of great significance. DIN EN 13 126-3 and the RAL test based on this demand 200 Nm of resistance on the locking element for these tests in the highest class. In DIN EN 1627 to 1630 (requirements for burglar-resistant windows) there is a requirement of 100 Nm against twisting or tearing off the window handle on the burglar-proof window. As the tested values are twice as high, the lockable window handles from FSB are suitable without restriction for use on burglar-proof windows. This applies to all resistance classes, RC 1 to RC 6.

In addition to the standard lockable formats, a locking adapter allows nearly all of FSB's designer window handles to be used on burglar proof windows and to continue the shape and material line of your favourite handle down to functional details. Naturally these solutions are also tested and monitored according to the afore-mentioned RAL quality standards and are suitable without restriction for burglar-proof windows in the resistance classes RC 1 to RC 6 in accordance with DIN EN 1627 to 1630.

Forced closing

The same applies to an optionally available version with forced closing. Forced locking means that, in order to be able to pull the key out, the window must always be closed. In the standard version without forced closing, the key can be pulled out irrespective of the window's closing position. If no information is provided for this purpose when ordering, we supply the version without forced closing as standard. The lockable window handles 34 3481, 3488 and 3496 are not available with forced closing function.

Without key – with convenient push-button

In addition there is a push-button operated version, which requires two hands to operate it and makes manipulation from outside even harder – and can be used, for example, if windows in children's rooms are intended to be fitted with a lockable window handle so that the little dears cannot open the window themselves, but allow you yourself to ventilate the room at any time, for example, without first having to look for the key. This convenient solution is not suitable, however, for burglar-proof windows in accordance with RC 1 to RC 6.

Tilt to turn

Special-action lockable handles are required in conjunction with the "tilt to turn" window drive mechanisms, which are often fitted in schools, offices and hospitals to prevent unauthorised operation without impairing ventilation.

Please bear in mind: windows with "tilt to turn" function are fitted with window drive mechanisms that differ from the norm in order to ensure the described function. A window handle in the corresponding design alone does not perform this function. Please take this into account at the planning and tendering stage.

Moreover, window handles with the "tilt to turn" function meet neither the RAL quality standard nor DIN EN 1627 – 1630.

Special solutions

Innovations in facade techniques such as curtain walling or new window designs necessitate special types of window handle:

- with a reduced depth or flat roses for box-type windows
- featuring cranking for top-hinged windows
- with sash locks for horizontally pivoted sash windows

FSB produces a wide variety of special concept solutions for such requirements, which can be combined with virtually all our window handle models (on request).

Window handles with flat rose

For technical information see page 320f.



34 ... 007 

Window handle with flat oval rose and click-stop mechanism recessed into profile



34 ... 067 

Window handle with flat rectangular rose and click-stop mechanism recessed into profile



Lugs \varnothing 10 mm
Mounting holes 43 mm
7 mm \square spindle
Protruding 34 mm

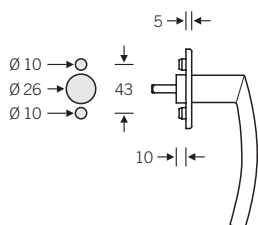
Can be used on wood profiles
Possible with rectangular and oval rose
Assembly is in the usual manner, except that a central drill hole 26 mm in diameter is required in addition to the two fixing holes (c:c 43 mm).

Nearly all FSB window handles with a click-stop mechanism can be supplied with shallow roses. Please enquire in each case.

Other flush products:

- AGL®/AGL® FS heavy-duty fittings for door thicknesses from 45 mm, see page 270
- round roses 17 1736/17 1737 for door thicknesses from 38–44 mm, see page 271
- rectangular roses 17 1733/17 1734 for door thicknesses from 38–44 mm, see page 272
- armoured roses FSB 73 7396, security class ES1 DIN 18 257, for wood entrance doors, see page 599

Drilling dimensions



fsb.de/flush

Window handles with flush rose

For technical information see page 320f.

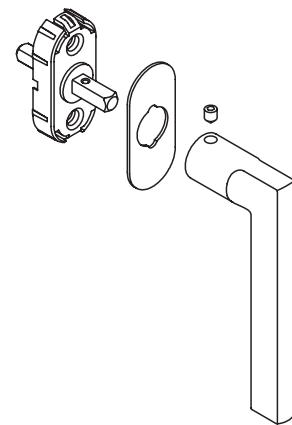


34 ... 09010

Window handle heavy-duty version, rose flush with window profile, with click-stop mechanism in RAL quality

- concealed fixing method
- mounting holes 43 mm
- the covering rose is fastened in the recesses on the rose substructure using clips
- rose depth and routing depth 13 mm
- 7 mm □ spindle
- standard spindle projection 22 mm

3d

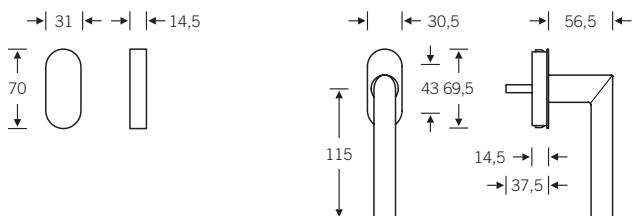


Nearly all FSB window handles with a click-stop mechanism can be supplied in a completely flush version. Please enquire in each case.

Other flush products:

- AGL®/AGL® FS heavy-duty fittings for door thicknesses from 45 mm, see page 270
- round roses 17 1736/17 1737 for door thicknesses from 38–44 mm, see page 271
- rectangular roses 17 1733/17 1734 for door thicknesses from 38–44 mm, see page 272
- armoured roses FSB 73 7396, security class ES1 DIN 18 257, for wood entrance doors, see page 599

Routing dimensions



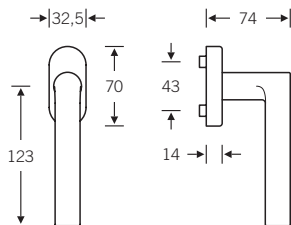
fsb.de/flush

CNC milling data under fsb.de/cnc

34 1001

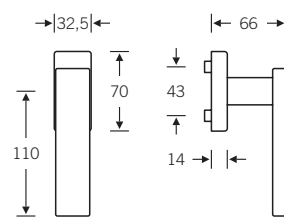
- 34 1001 008 (oval rose)
- 34 1001 007 (oval rose, flat)
- 34 1001 170 (lockable)

Design: Peter Bastian



34 1003

- 34 1003 068 (rectangular rose)
- 34 1003 067 (rectangular rose, flat)
- 34 1003 170 (lockable)



fsb.de/341001

In aluminium only available in natural anodised finish (FSB 0105)

fsb.de/341003

In aluminium only available in natural anodised finish (FSB 0105)

34 1004

- 34 1004 068 (rectangular rose)
- 34 1004 067 (rectangular rose, flat)*
- 34 1004 170 (lockable)

Design: David Chipperfield

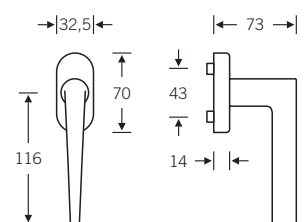
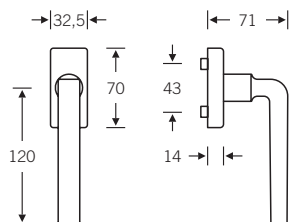


34 1005

- 34 1005 008 (oval rose)
- 34 1005 007 (oval rose, flat)
- 34 1005 170 (lockable)



3d



fsb.de/341004

In aluminium only available in natural anodised finish (FSB 0105)

* not in bronze

fsb.de/341005

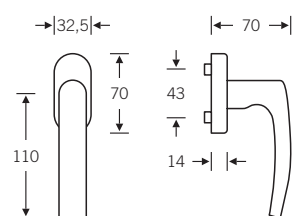
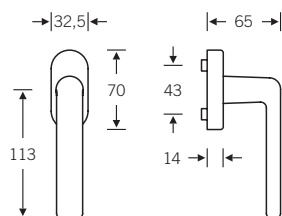
34 1012

- 34 1012 008 (oval rose)
- 34 1012 007 (oval rose, flat)
- 34 1012 170 (lockable)



34 1015

- 34 1015 008 (oval rose)
- 34 1015 007 (oval rose, flat)*
- 34 1015 170 (lockable)



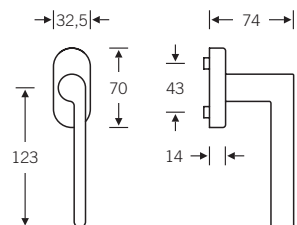
fsb.de/341012

fsb.de/341015

* not in bronze

34 1021

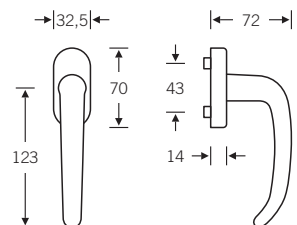
34 1021 048 (R) | 058 (L) (oval rose)
 34 1021 047 (R) | 057 (L) (oval rose, flat)
 34 1021 470 (R) | 570 (L) (lockable)



fsb.de/341021

34 1023

34 1023 008 (oval rose)
 34 1023 007 (oval rose, flat)*
 34 1023 170 (lockable)



fsb.de/341023

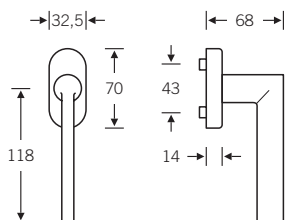
* not in brass and bronze



34 1025

- 34 1025 008 (oval rose)
- 34 1025 007 (oval rose, flat)*
- 34 1025 170 (lockable)

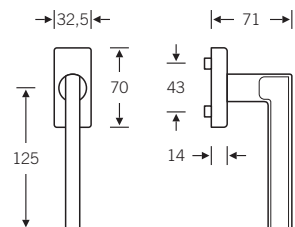
Design: Hartmut Weise



34 1035

- 34 1035 068 (rectangular rose)
- 34 1035 067 (rectangular rose, flat)
- 34 1035 170 (lockable)

Design: Heike Falkenberg



fsb.de/341025

* not in brass

fsb.de/341035

In aluminium only available in natural anodised finish (FSB 0105)

34 1058

- 34 1058 008 (oval rose)
- 34 1058 007 (oval rose, flat)
- 34 1058 170 (lockable)

Design: Johannes Potente

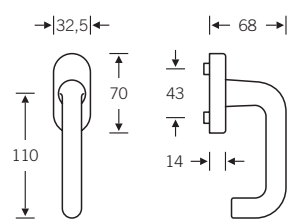
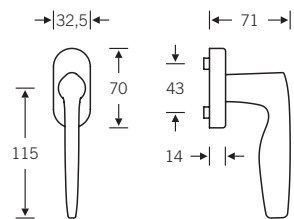


34 1070

- 34 1070 008 (oval rose)
- 34 1070 007 (oval rose, flat)
- 34 1070 170 (lockable)



3d

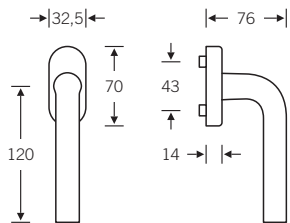


fsb.de/341058

fsb.de/341070

34 1075

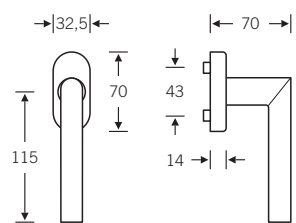
- 34 1075 008 (oval rose)
- 34 1075 007 (oval rose, flat)
- 34 1075 170 (lockable)



fsb.de/341075

34 1076

- 34 1076 008 (oval rose)
- 34 1076 007 (oval rose, flat)*
- 34 1076 170 (lockable)



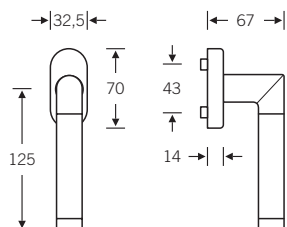
fsb.de/341076

* not in brass and bronze



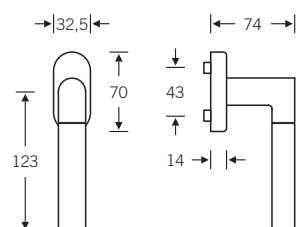
34 1077

34 1077 008 (oval rose)
 34 1077 007 (oval rose, flat)
 34 1077 170 (lockable)



34 1078

34 1078 008 (oval rose)
 34 1078 007 (oval rose, flat)
 34 1078 170 (lockable)



Design: Christoph Ingenhoven

3d



fsb.de/341077

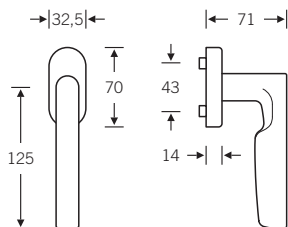
Available versions:
 – elbow/rose aluminium, grip section stainless steel
 – elbow aluminium, rose/grip section stainless steel
 – elbow/rose aluminium natural,
 grip section black

fsb.de/341078

34 1093

34 1093 008 (oval rose)
34 1093 007 (oval rose, flat)
34 1093 170 (lockable)

Design: Helmut Jahn, Yorgo Lykouria



34 1102

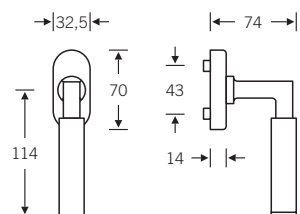
34 1102 008 (oval rose)
34 1102 007 (oval rose, flat)*
34 1102 170 (lockable)

Design: Alessandro Mendini



Material versions
(Please specify when ordering):

- completely aluminium
- elbow/rose aluminium, grip section black plastic
- completely stainless steel
- elbow/rose stainless steel, grip section black plastic
- completely brass
- completely bronze



fsb.de/341093

fsb.de/341102

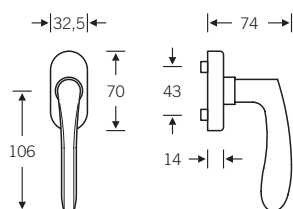
In aluminium only available in natural anodised finish (FSB 0105)

* not in brass and bronze

34 1106

34 1106 008 (oval rose)
 34 1106 007 (oval rose, flat)*
 34 1106 170 (lockable)

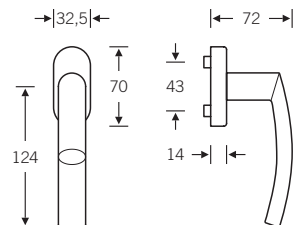
Design: Christoph Mäckler



34 1107

34 1107 008 (oval rose)
 34 1107 007 (oval rose, flat)
 34 1107 170 (lockable)

Design: Hartmut Weise



3d



fsb.de/341106

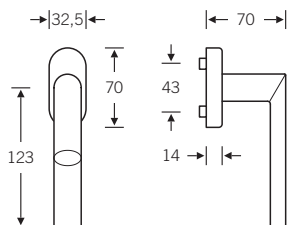
* not in brass and bronze

fsb.de/341107

34 1108

34 1108 008 (oval rose)
 34 1108 007 (oval rose, flat)
 34 1108 170 (lockable)

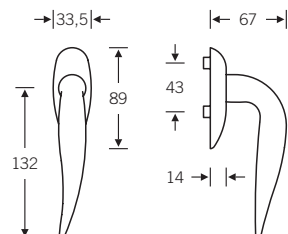
Design: Hartmut Weise



34 1111

34 1111 008 (oval rose)

Design: Philippe Starck



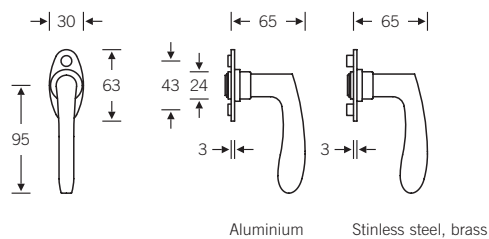
fsb.de/341108

fsb.de/341111

34 1135

34 1135 000 (oval rose, flat, visible screws)

Design: Christoph Mäckler



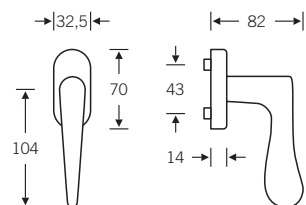
fsb.de/341135

Not suitable for heavy-duty buildings,
if nec. resort to 34 1106, see page 333

34 1144

34 1144 008 (oval rose)
34 1144 007 (oval rose, flat)
34 1144 170 (lockable)

Design: Jasper Morrison

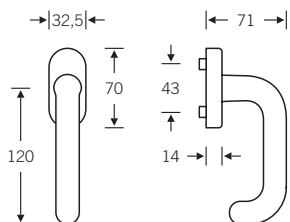


fsb.de/341144



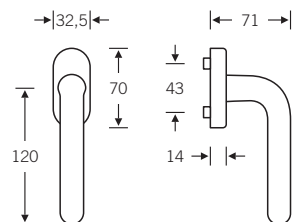
34 1146

- 34 1146 008 (oval rose)
- 34 1146 007 (oval rose, flat)*
- 34 1146 170 (lockable)



34 1147

- 34 1147 008 (oval rose)
- 34 1147 007 (oval rose, flat)
- 34 1147 170 (lockable)



fsb.de/341146

* not in brass

fsb.de/341147

34 1159

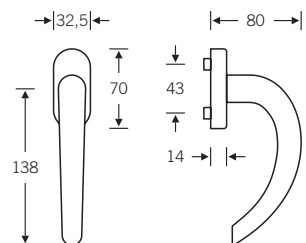
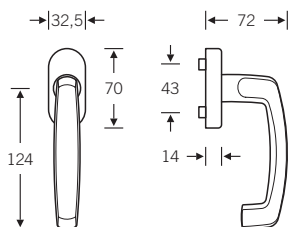
- 34 1159 008 (oval rose)
- 34 1159 007 (oval rose, flat)
- 34 1159 170 (lockable)

Design: Laurids and Manfred Ortner

34 1160

- 34 1160 008 (oval rose)
- 34 1160 007 (oval rose, flat)
- 34 1160 170 (lockable)

3d



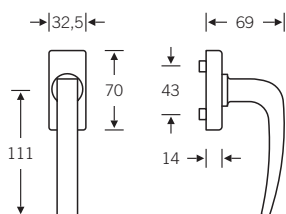
fsb.de/341159

fsb.de/341160

34 1163

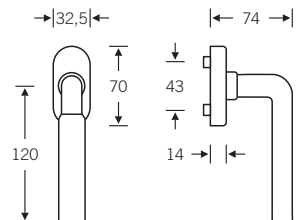
- 34 1163 068 (rectangular rose)
- 34 1163 067 (rectangular rose, flat)*
- 34 1163 170 (lockable)

Design: Hans Kollhoff



34 1171

- 34 1171 008 (oval rose)
- 34 1171 007 (oval rose, flat)
- 34 1171 170 (lockable)



fsb.de/341163

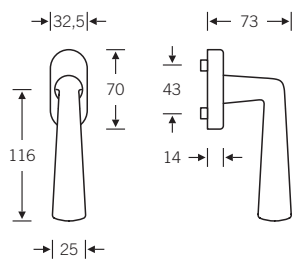
In aluminium only available in natural anodised finish (FSB 0105)

* not in bronze

fsb.de/341171

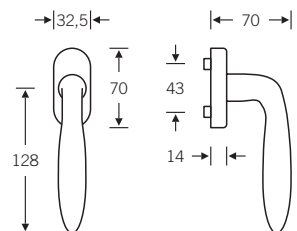
34 1173

34 1173 008 (oval rose)
 34 1173 007 (oval rose, flat)
 34 1173 170 (lockable)



34 1176

34 1176 008 (oval rose)
 34 1176 007 (oval rose, flat)
 34 1176 170 (lockable)



3d



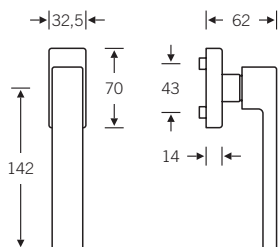
fsb.de/341173

fsb.de/341176

34 1183

34 1183 068 (rectangular rose)
 34 1183 067 (rectangular rose, flat)
 34 1183 170 (lockable)

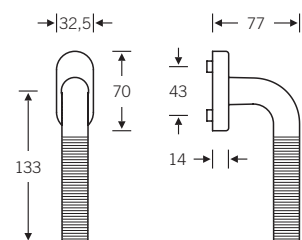
Design: Hadi Teherani



34 1186

34 1186 008 (oval rose)
 34 1186 007 (oval rose, flat)
 34 1186 170 (lockable)

Design: Gaëlle Lauriot-Prévost,
 Dominique Perrault



fsb.de/341183

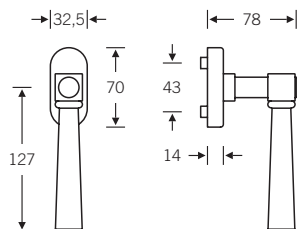
In aluminium only available in natural
 anodised finish (FSB 0105)

fsb.de/341186

34 1206 ■

34 1206 008 (oval rose)
34 1206 170 (lockable)

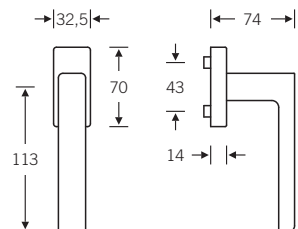
Design: Petra and Paul Kahlfeldt



34 1222 ■

34 1222 068 (rectangular rose)
34 1222 170 (lockable)

Design: Klaus Nolting



3d

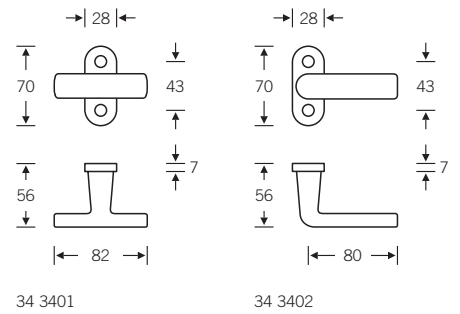


fsb.de/341206

fsb.de/341222

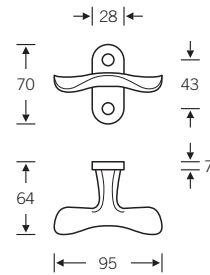
In aluminium only available in natural anodised finish (FSB 0105)

34 3401 | 34 3402 ■

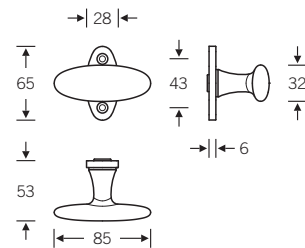


34 3404 ■ ■

Design: Johannes Potente



34 3480 ■ ■



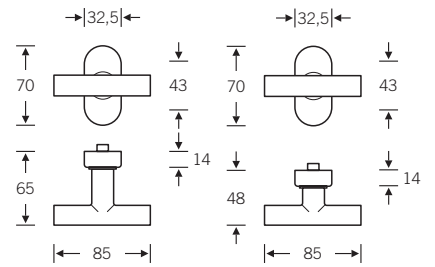
fsb.de/343401
fsb.de/343404
fsb.de/343480

The window handles shown here are not suitable for heavy-duty buildings.

34 3403



- 34 3403 008 (oval rose)
- 34 3403 007 (oval rose, flat)
- 34 3403 170 (lockable)
- 34 3499 00012 (shortened shank)*



34 3403

34 3499 00012

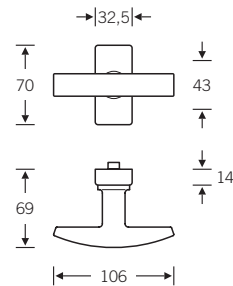
3d

34 3453

Design: Hans Kollhoff



- 34 3453 068 (rectangular rose)
- 34 3453 067 (rectangular rose, flat)**
- 34 3453 170 (lockable)

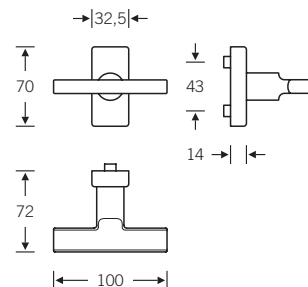


34 3784

Design: Heike Falkenberg



- 34 3784 068 (rectangular rose)
- 34 3784 067 (rectangular rose, flat)
- 34 3784 170 (lockable)



fsb.de/343403
 fsb.de/343499
 fsb.de/343453
 fsb.de/343784

* only in stainless steel
 ** only in aluminium

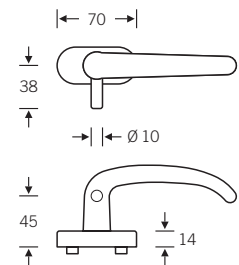
Window handles for specific requirements

For technical information see page 320f.

34 3499 ■

34 3499 00039 (R) | 34 3499 00040 (L)

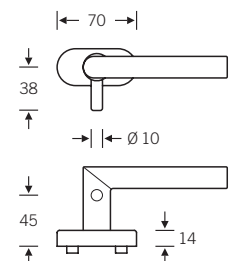
to match design 1023



34 3499 ■

34 3499 00036 (R) | 34 3499 00037 (L)

to match design 1076



fsb.de/343499

Not suitable for pivoting windows made by Hautau

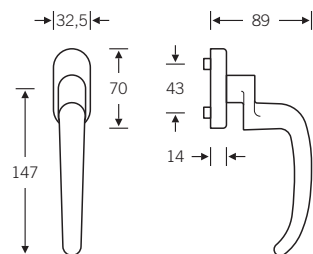
Window handles for specific requirements

For technical information see page 320f.

34 3499 ■

34 3499 00033

to match design 1023

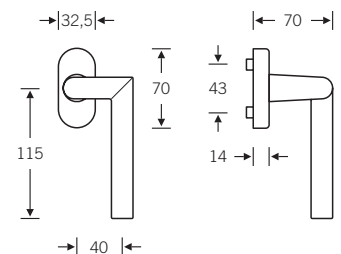


34 3499 ■

34 3499 00018 (R) | 34 3499 00019 (L)

to match design 1076

Illustration: right



3d

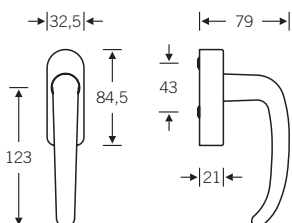


fsb.de/343499

34 1023 

34 1023 170

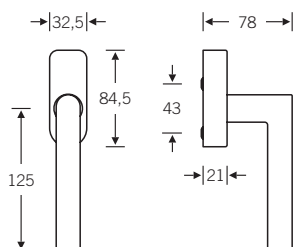
Suitable for security windows acc. to DIN EN 1627 f.
Keyed-to-differ, keyed-alike and tilt to turn* possible



34 1076 

34 1076 170

Suitable for security windows acc. to DIN EN 1627 f.
Keyed-to-differ, keyed-alike and tilt to turn* possible



Locking + security

fsb.de/341023
fsb.de/341076

Adapter facing up and down can be used, possible with nearly all FSB handle designs.

Optional with forced closing feature, i.e. in order to pull the key out, the window must be closed.

* Not burglar-proof acc. to DIN EN 1627 f. and not RAL quality. Specify DIN direction when ordering.

Window handle security devices

Push-pin forced locks

For technical information see page 320f.

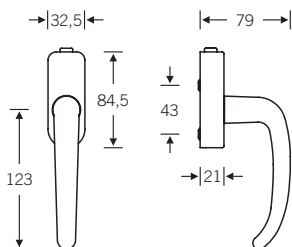
34 1023 

34 1023 076

Push-pin requires two-handed operation and makes access from outside more difficult



Locking + security



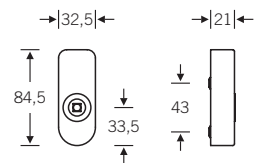
34 3460 

34 3460 170

Matching handle 34 1076 09001*

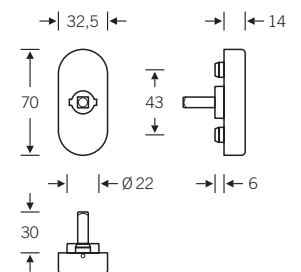


Locking



34 3470 

Matching handle 34 3463 to be ordered separately



fsb.de/341023

fsb.de/343460
fsb.de/343470
fsb.de/343463

* only in stainless steel

3d

Window handles lockable

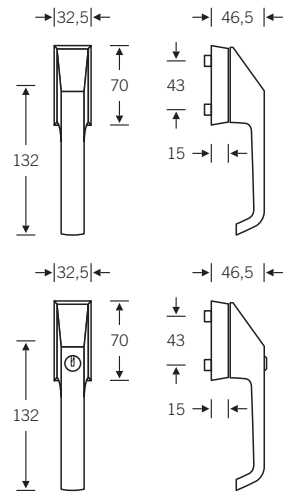
For technical information see page 320f.


34 3488  



34 3488 000 not lockable
34 3488 021 lockable

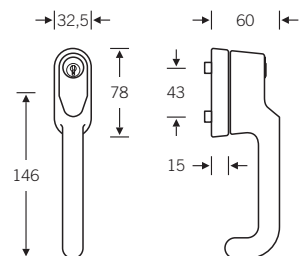
Suitable for security windows acc. to DIN EN 1627 f.
Keyed-to-differ, keyed-alike and tilt to turn* possible



34 3481 



Suitable for security windows acc. to DIN EN 1627 f.
Keyed-to-differ, keyed-alike and tilt to turn* possible



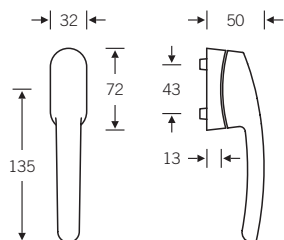
fsb.de/343488
fsb.de/343481

* Not burglar-proof acc. to DIN EN 1627 f. and not RAL quality. Specify DIN direction when ordering

Locking + security

34 3496 ■

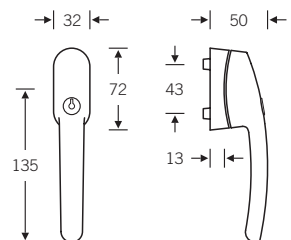
34 3496 000



34 3496 ■

34 3496 021

Suitable for security windows acc. to DIN EN 1627 f.
Keyed-to-differ, keyed-alike and tilt to turn* possible



3d



Locking + security

fsb.de/343496

fsb.de/343496

* Not burglar-proof acc. to DIN EN 1627 f. and not RAL quality. Specify DIN direction when ordering

Window handles

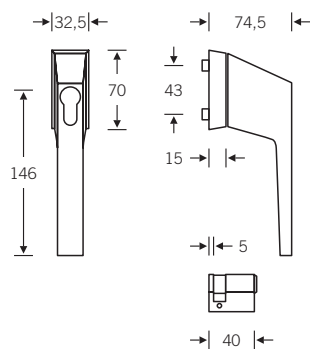
designed for single profile cylinders

For technical information see page 320f.

34 3495 ■

34 3495 00059

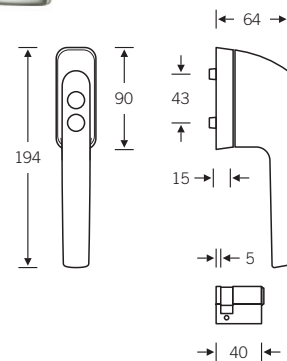
Suitable for security windows acc.
to DIN EN 1627f.
Tilt to turn* possible
Cylinder length max. 40 mm



34 3491 ■■

34 3491 00059

Suitable for security windows acc.
to DIN EN 1627f.
Tilt to turn* possible, also available designed
for isis® T-single profile cylinder BC02:
34 3491 00008, isis® T-single profile cylinder
BC02 17 Z72: 25 2500 08207 4504
Cylinder length max. 40 mm



Locking +
security

fsb.de/343495
fsb.de/343491

* Not burglar-proof acc. to
DIN EN 1627f. and not
RAL quality. Specify DIN
direction when ordering

Window handles

designed for single profile cylinders,
anti-suicide version

For technical information see fsb.de/jva

34 3495

34 3495 01059

Suitable for security windows acc.
to DIN EN 1627f.
Tilt to turn* possible
Cylinder length max. 40 mm

Anti-suicide version



34 3491

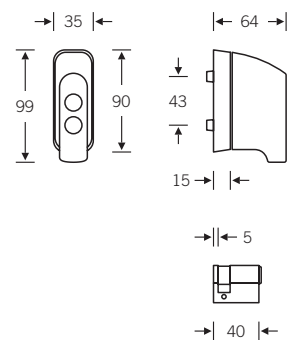
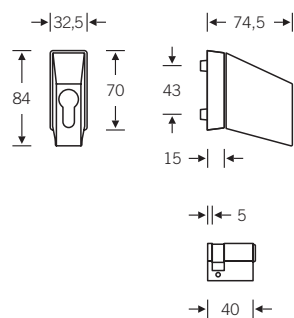
34 3491 01059

Suitable for security windows acc.
to DIN EN 1627f.
Tilt to turn* possible
(design slightly different)
Cylinder length max. 40 mm

Anti-suicide version



3d



Locking +
security

fsb.de/jva

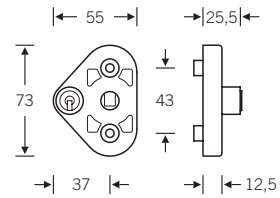
* Not burglar-proof acc. to
DIN EN 1627f. and not
RAL quality. Specify DIN
direction when ordering


We are happy to send you the specialist
brochure with a host of special JVA solu-
tions free of charge on request.

Window locks

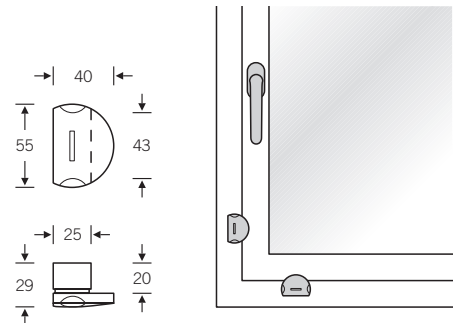
34 3407 
PVC black and white

Window handle lock for
FSB window handles
34 10.. 008
34 11.. 008
34 12.. 008




34 3416 

Anti-leverage device



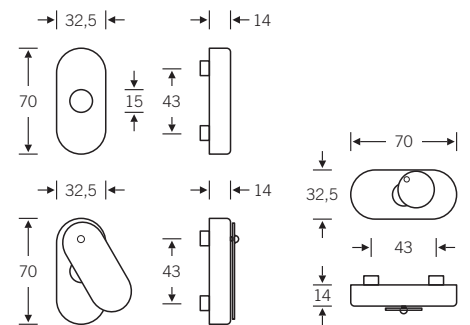
fsb.de/343407
fsb.de/343416

Budget lock roses

17 1759 



- 17 1759 025 (without cover)
- 17 1759 026 (with oval cover for vertical use)
- 17 1759 027 (with round cover for horizontal use)

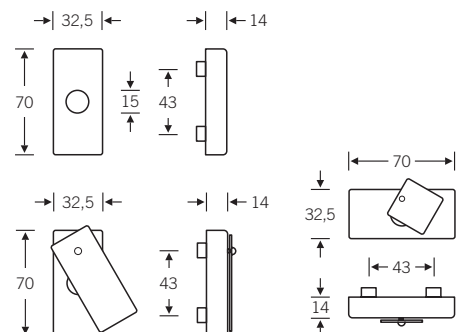


3d

17 1786 



- 17 1786 025 (without cover)
- 17 1786 026 (with rectangular cover for vertical use)
- 17 1786 027 (with rectangular cover for horizontal use)



fsb.de/171759
fsb.de/171786

Parallel sliding tilt fittings (PST)

34 1016 ■



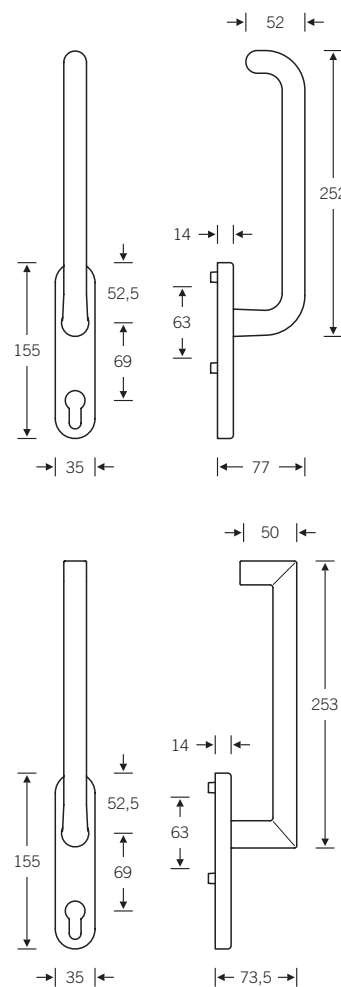
34 1146 ■



Parallel sliding tilt fittings with 90° click-stop mechanism, turnably fixed, concealed screw fixing 7 + 8 mm □ spindle

.... 01202
without keyhole, with M6 × 80 mm screws,
for through fixing with FSB 42 4215

.... 01203
with PC-keyhole, with M6 × 80 mm screws,
for through fixing with FSB 42 4215



fsb.de/341016
fsb.de/341146

For matching handle pulls FSB 42 4215,
see opposite page

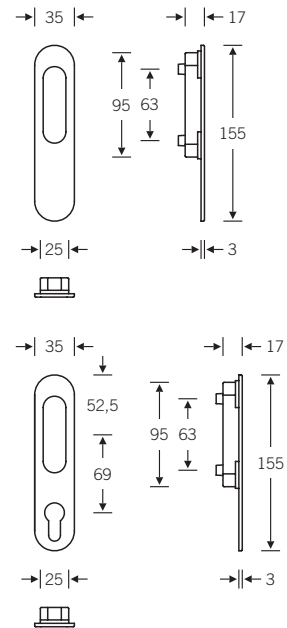
Parallel sliding tilt fittings (PST)

Handle pulls for the opposite side

42 4215 ■

42 4215 00100 (without keyhole)
42 4215 00102 (with PC-keyhole)

M6 threaded screws

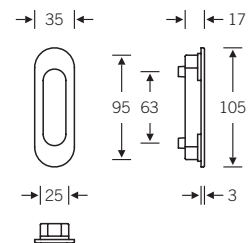


3d

42 4215 ■

42 4215 01100

M6 threaded screws



fsb.de/424215

Lifting/sliding door fittings

34 1004  



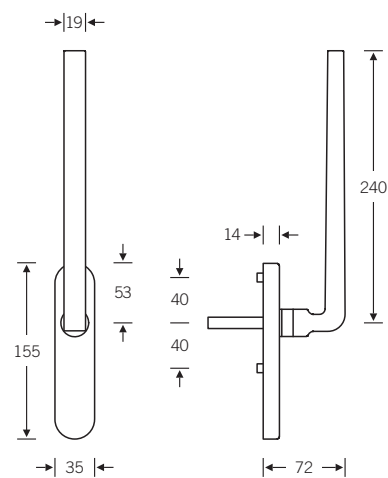
Lifting/sliding door pulls with 180° click-stop mechanism, turnably fixed, concealed screw fixing, 10 mm □ spindle

.... 01100
without keyhole, with M6 threaded lugs,
for through fixing with design 01102

.... 01101
with PC-keyhole, with M6 threaded lugs,
for through fixing with design 01103

.... 01102
without keyhole, with M6 × 80 mm screws,
for through fixing with FSB 42 4215 or
design 01100

.... 01103
with PC-keyhole, with M6 × 80 mm screws,
for through fixing with FSB 42 4215 or
design 01101




fsb.de/341004

For matching handle pulls FSB 42 4215,
see page 359

Lifting/sliding door fittings

34 1016 

34 1146 



Lifting/sliding door pulls with 90° and 180° click-stop mechanism, turnably fixed, concealed screw fixing, 10 mm □ spindle

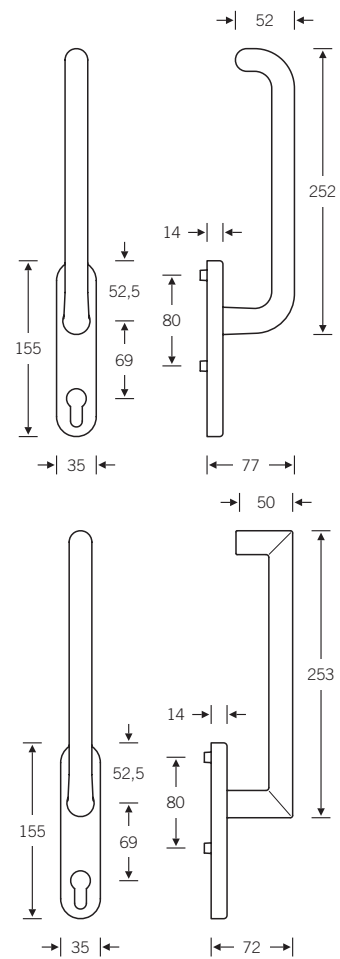
.... 01100
without keyhole, with M6 threaded lugs, for through fixing with design 01102

.... 01101
with PC-keyhole, with M6 threaded lugs, for through fixing with design 01103

.... 01102
without keyhole, with M6 × 80 mm screws, for through fixing with FSB 42 4215 or design 01100

.... 01103
with PC-keyhole, with M6 × 80 mm screws, for through fixing with FSB 42 4215 or design 01101

3d



fsb.de/341016
fsb.de/341146

In aluminium only available in natural anodised finish (FSB 0105).

For matching handle pulls FSB 42 4215, see page 359

Lifting/sliding door fittings

34 1102 



Lifting/sliding door pulls with 90° and 180° click-stop mechanism, turnably fixed, concealed screw fixing, 10 mm \square spindle

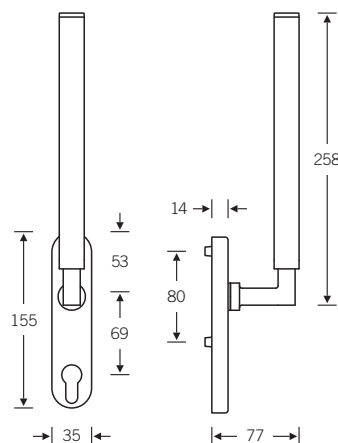
Versions: stainless steel, stainless steel mirror finish and brass-coloured PVD-coated

.... 01100
without keyhole, with M6 threaded lugs,
for through fixing with design 01102

.... 01101
with PC-keyhole, with M6 threaded lugs,
for through fixing with design 01103

.... 01102
without keyhole, with M6 \times 80 mm screws,
for through fixing with FSB 42 4215 or
design 01100

.... 01103
with PC-keyhole, with M6 \times 80 mm screws,
for through fixing with FSB 42 4215 or
design 01101




fsb.de/341102

For matching handle pulls FSB 42 4215,
see opposite page

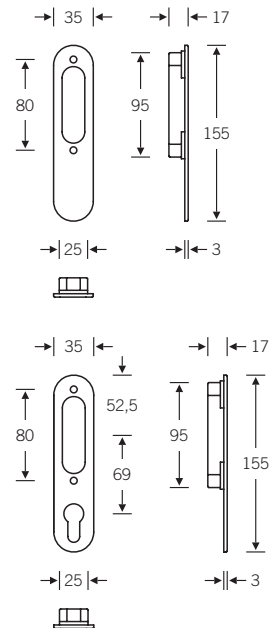
Lifting/sliding door fittings

Handle pulls for the opposite side

42 4215 

42 4215 00000 (without keyhole)
42 4215 00002 (with PC-keyhole)

M6 threaded screws

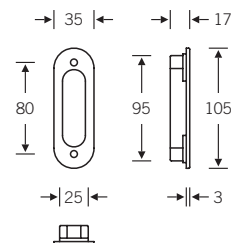


3d

42 4215 

42 4215 01000

M6 threaded screws




fsb.de/424215

In aluminium only available in natural anodised finish (FSB 0105). Versions in stainless steel mirror finish, brass-coloured PVD-coated available on request.


366 Flush pulls
378 Gymnasium fittings
385 Door stops
388 Accessories
391 Pictograms
392 Engravings

3e


Overview

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Page 377




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Page 377




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Page 377




42 4250 
Page 366




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42 4252 
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42 4253 
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42 4254 
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42 4255 
Page 370f.



42 4255 
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42 4299 
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21 2144 
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21 2160 
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36 3601 
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36 3603 
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36 3617 
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51 5325 
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Page 385



38 3878 
Page 385




38 3880 
Page 386




38 3881 
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38 3884 
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38 3888 
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36 3646 
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


38 3880 
Page 387




38 3896 
Page 387




36 3650 
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36 2328 
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36 3632 
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36 3654 
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36 3689 
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36 3691 
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36 3656 
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36 9865 
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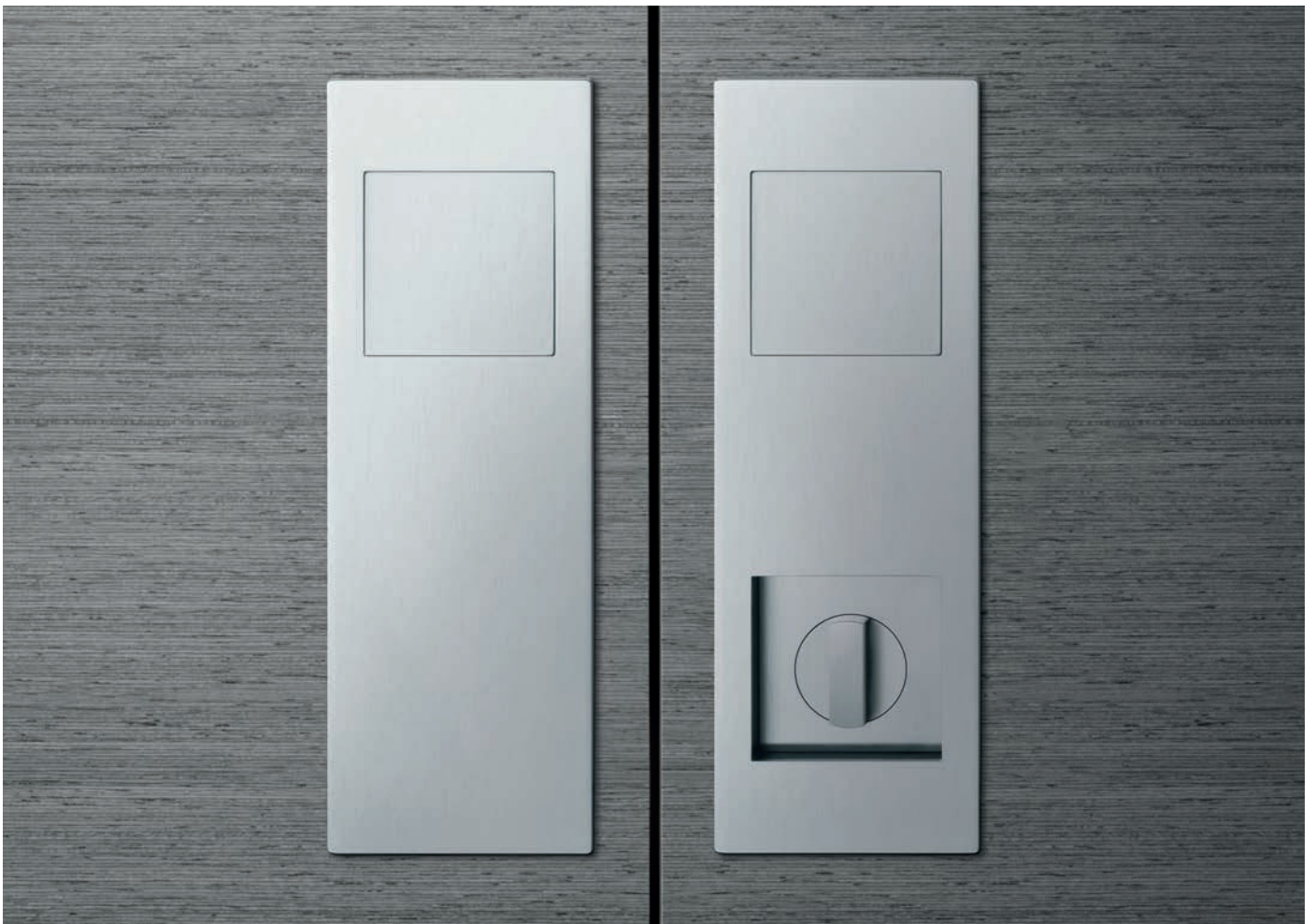


36 4059 
Page 391



Engravings
Page 392f.





Construction on existing buildings: sliding doors! Regardless of whether new construction, refurbishment, renovation, conversion, sophisticated interior design, residential building or small properties is involved: with sliding doors, the level of flexibility when planning and the space efficiency of the rooms fitted with sliding doors are increased in equal measure. What is particularly interesting is the way they open up spaces.

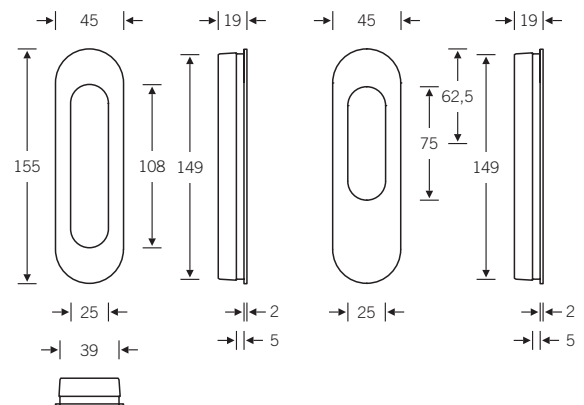
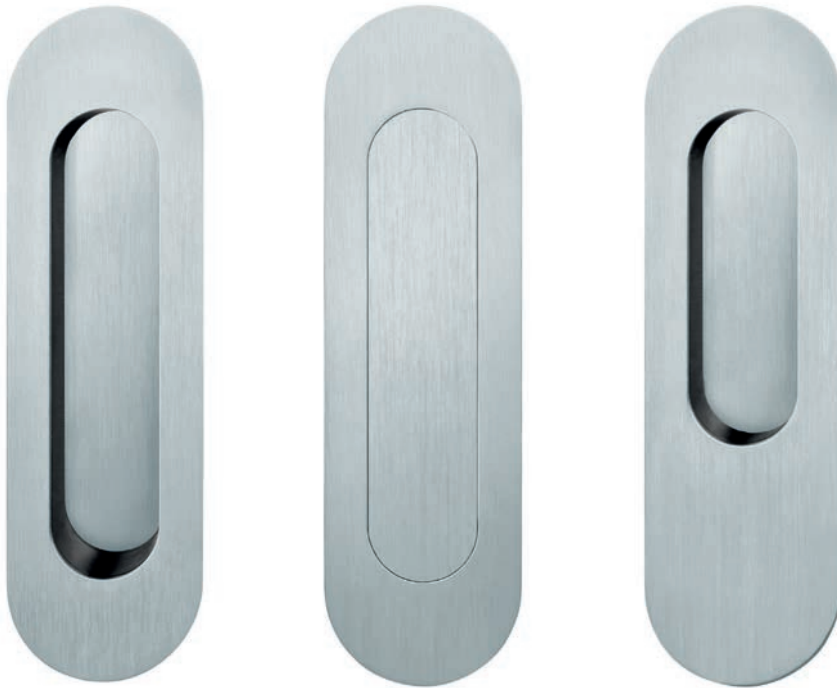
Flush pulls

basket arch-shaped


42 4250 

42 4250 00000 (open)*
 42 4250 00001 (closed)
 42 4250 00002 (half open)

Recess 150 × R 20 × 17.5 mm

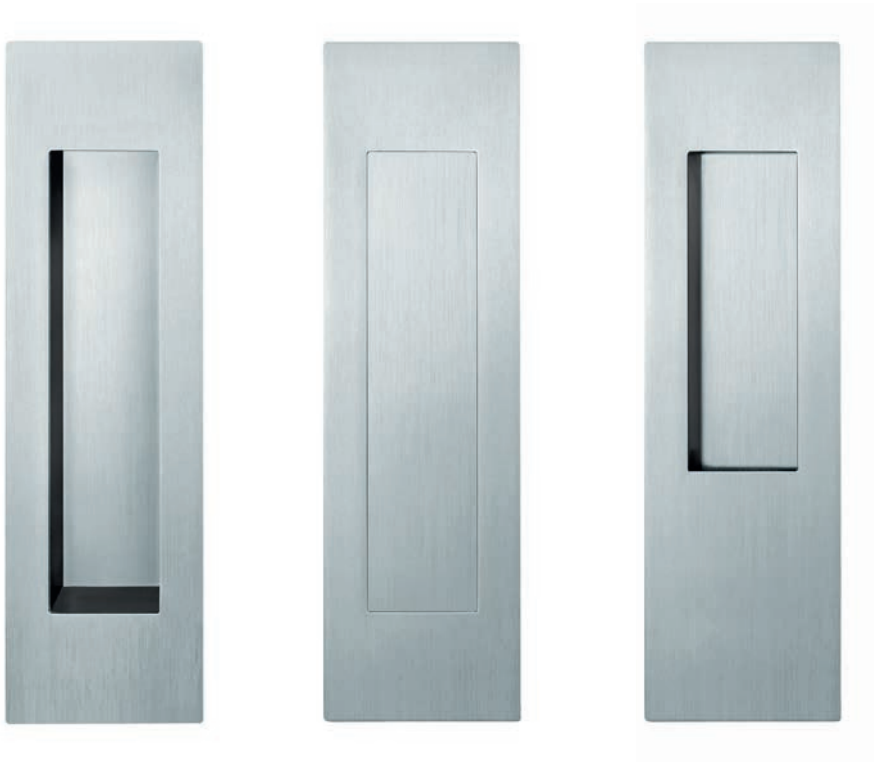


Flush pulls rectangular

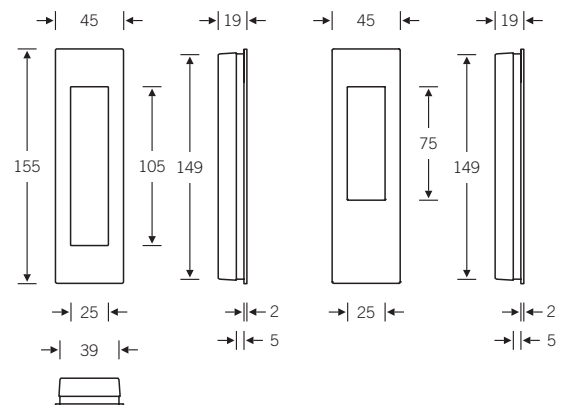
42 4251 

42 4251 00000 (open)*
42 4251 00001 (closed)
42 4251 00002 (half open)

Recess 150 × R 20 × 17.5 mm




3e



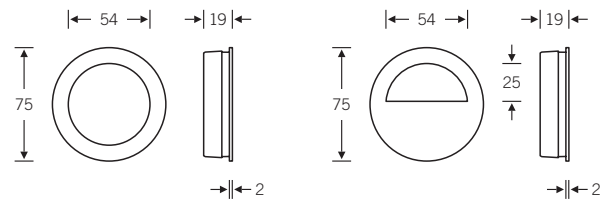
Flush pulls


round

42 4252 

42 4252 00000 (open)
42 4252 00001 (closed)
42 4252 00002 (half open)

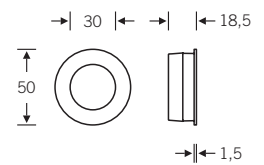
Recess \varnothing 70 x 17.5 mm



42 4254 

42 4254 00000 (open)
42 4254 00001 (closed)

Recess \varnothing 45 x 17.5 mm



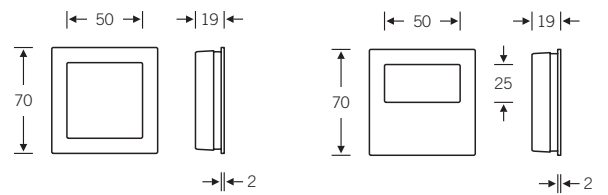
fsb.de/424252
fsb.de/424254

Flush pulls square

42 4253 

42 4253 00000 (open)
42 4253 00001 (closed)
42 4253 00002 (half open)

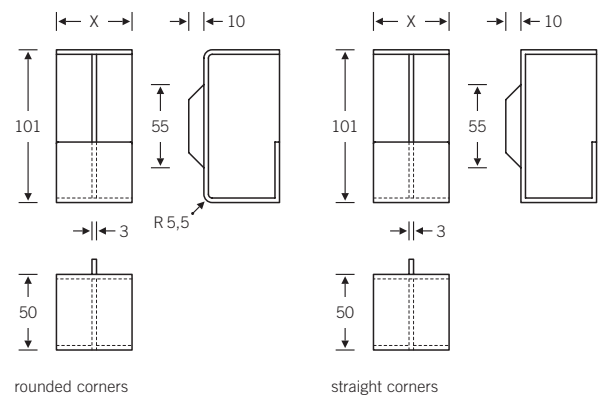
Recess 65 × 65 × 17.5 mm
Corner radius R 20



42 4299 

Flush pull for end fixing

Available with rounded or straight corners,
door thicknesses on request



fsb.de/424253
fsb.de/424299

Flush pull sets for double sliding doors

42 4255 09006 ■

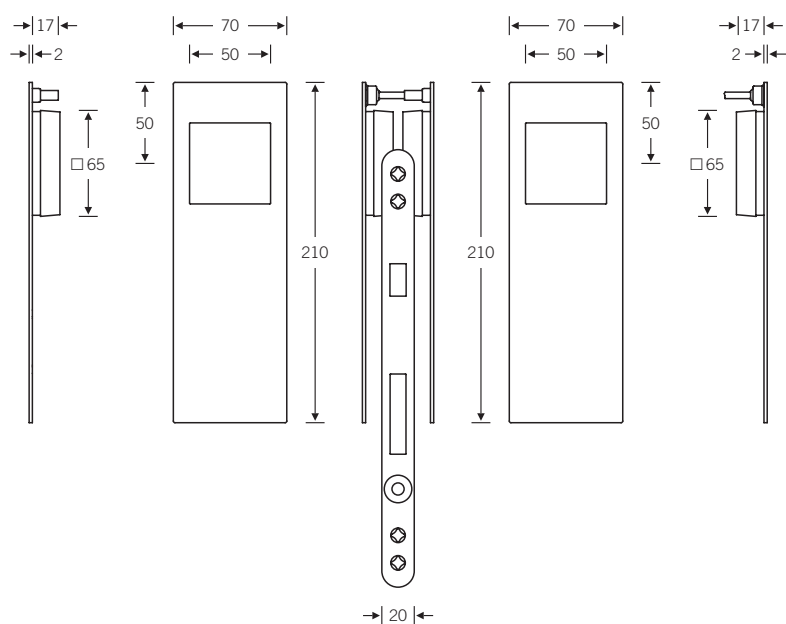
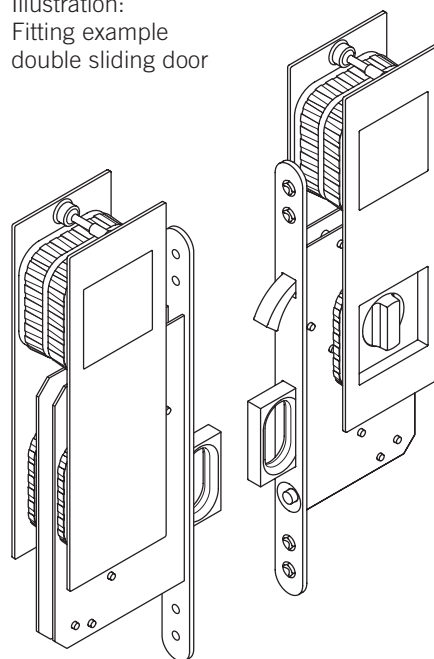
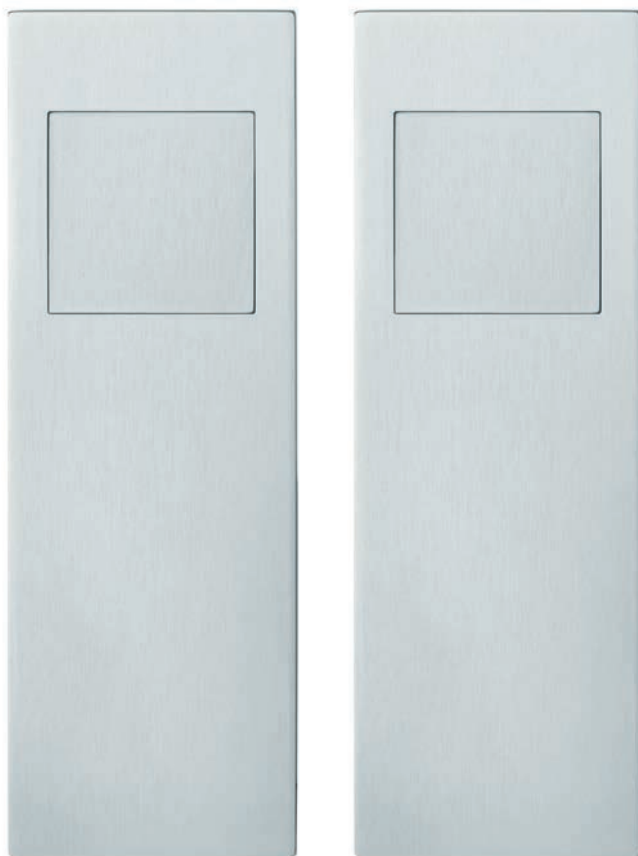
Flush pull sets with mortise lock case series 72 GK (with front handle)

For use on double sliding doors, FSB 42 4255 09008 is also required (see page 371)

Suitable for door thicknesses of 38–44 mm*
Faceplate made of stainless steel

Scope of delivery:
– Flush pull set
– Mortise lock box series 72 GK

Illustration:
Fitting example
double sliding door



fsb.de/424255

* other door thicknesses on request

Note: The necessary recesses should be made by CNC machining, for milling data see www.fsb.de/cnc

Flush pull sets for bathroom and WC

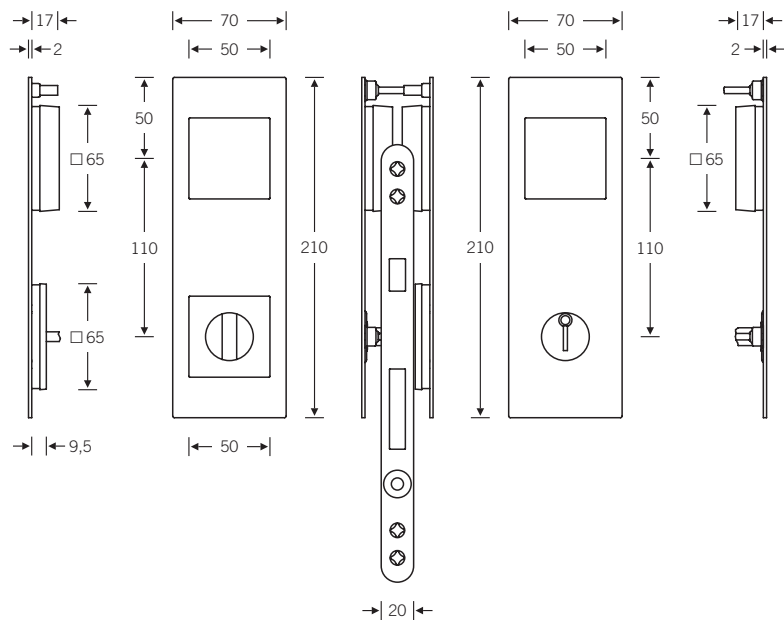
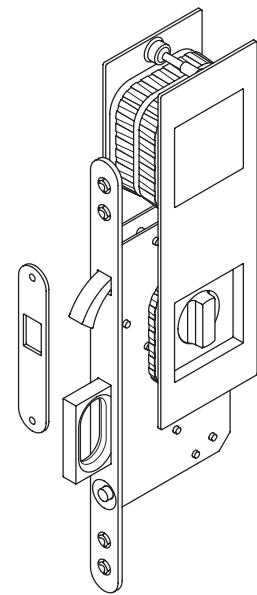
42 4255 09008 ■

Flush pull set with mortise sliding door lock series 72/WC (with circular bolt and front handle)

Suitable for door thicknesses of 38–44 mm*
Faceplate and strike plate made of stainless steel

Scope of delivery:

- Flush pull set
- Mortise sliding door lock series 72/WC
- Strike plate



fsb.de/424255

* other door thicknesses on request

Note: The necessary recesses should be made by CNC machining, for milling data see www.fsb.de/cnc

3e

Flush pull set for bathroom and WC

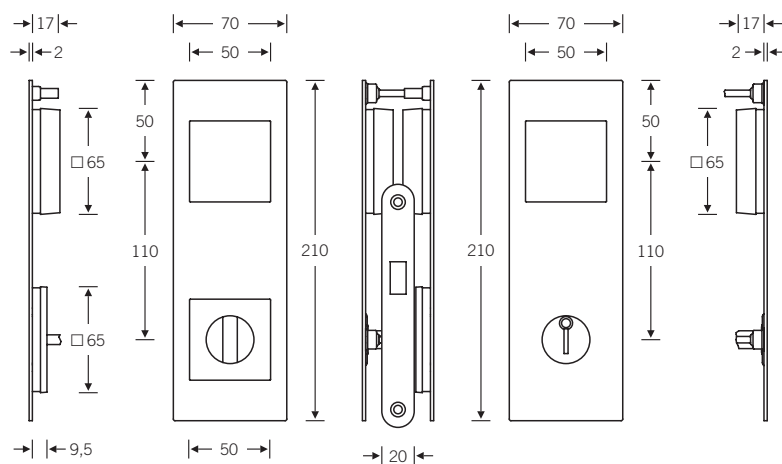
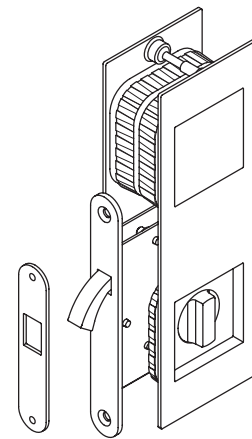
42 4255 09007 ■

Flush pull set with mortise sliding door lock series 71/WC (with circular bolt)

Suitable for door thicknesses of 38–44 mm*
Faceplate and strike plate made of stainless steel

Scope of delivery:

- Flush pull set
- Mortise sliding door lock series 71/WC
- Strike plate



fsb.de/424255

* other door thicknesses on request

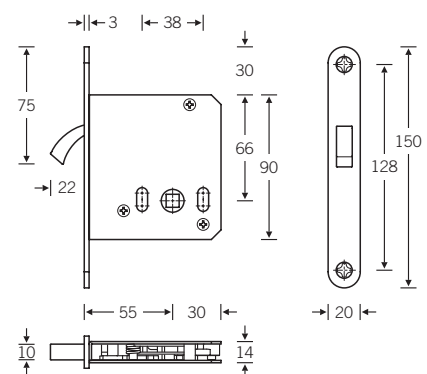
Note: The necessary recesses should be made by CNC machining, for milling data see www.fsb.de/cnc

Mortise sliding door lock

71/WC series

Mortise sliding door lock Class 3
Round flat faceplate
Stainless steel faceplate, polished
Nickel-plated circular bolt

Mortise sliding door lock and strike plate
(see page 376) included in delivery of
FSB 42 4255 09007



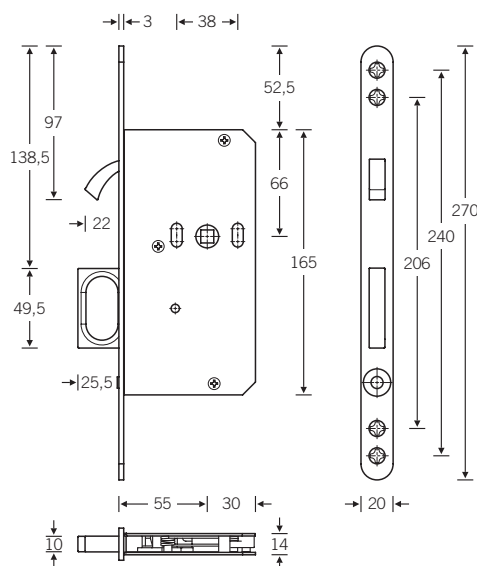
Note: The mortise sliding door lock series 71/WC for use on sliding doors can also be ordered separately through SSF. You can find the contact details under www.ssf.de

Mortise sliding door lock

72/WC series

Mortise sliding door lock Class 3
Round flat faceplate
Stainless steel faceplate, polished
Front handle, circular bolt and
push-button nickel-plated

Mortise sliding door lock and strike plate
(see page 376) included in delivery of
FSB 42 4255 09008



Note: The mortise sliding door lock series 72/WC for use on sliding doors can also be ordered separately through SSF. You can find the contact details under www.ssf.de

Mortise lock case

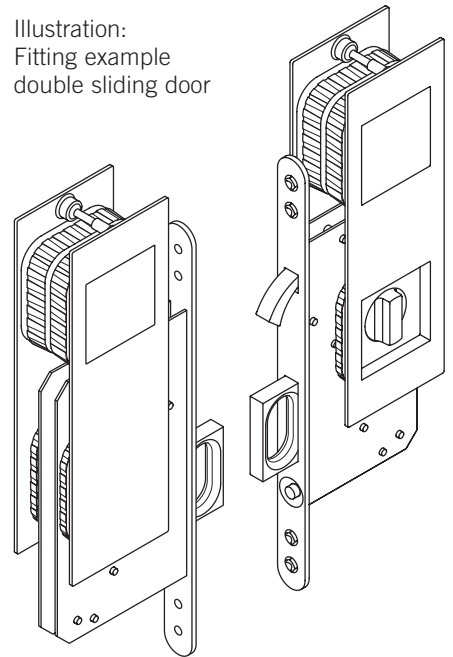
Series 72 GK

Mortise lock case for mortise sliding door lock series 72/WC
Stainless steel faceplate, polished
Front handle and push-button nickel-plated

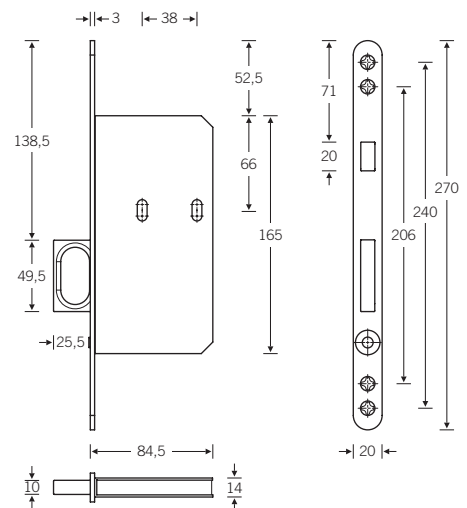
Mortise lock case included in delivery of
FSB 42 4255 09006



Illustration:
Fitting example
double sliding door



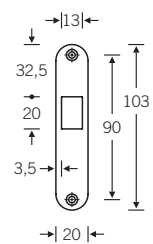
3e



Note: The mortise lock case series 72 GK for use on double sliding doors can also be ordered separately through SSF. You can find the contact details under www.ssf.de

Strike plate

Strike plate
included in delivery of FSB 42 4255 09007
and FSB 42 4255 09008

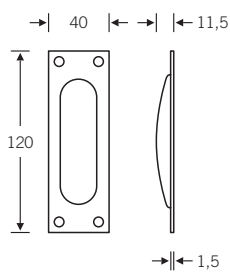


Flush pulls

42 4211 

Recess 87 × 28 × 10 mm
Drill hole for Ø 3.0 mm countersunk screws

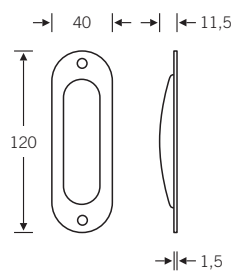
Can be supplied with lever lock,
profile cylinder or without keyhole



42 4212 

Recess 87 × 28 × 10 mm
Drill hole for countersunk screws Ø 3.0 mm

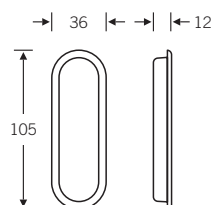
Can be supplied with lever lock,
profile cylinder or without keyhole



42 4213 

Recess 97 × 28 × 10 mm

Can be supplied with lever lock,
profile cylinder or without keyhole



fsb.de/424211
fsb.de/424213

fsb.de/424212

Gymnasium fittings to DIN EN 179

77 7948 ■



🔑 9 mm square

Profile cylinder and blank keyholes
(for standard doors to DIN EN 179)
Spacings 72 + 92 mm
Installation depth 40 mm,
frame height 45 mm

In certain installation situations, door handles are not allowed to protrude beyond the surface of the door: for example on sliding-door designs or gymnasium doors.

For this purpose FSB 77 7948 was subject to both the requirements of DIN EN 179 (inc. generous gripping area behind the door handle) and those of the DGUV (inc. edge radii of 2 mm, see also page 19). The door handle designed in accordance with DIN EN 179 with return and generous rounded parts also prevents any risk of crushing or trapping.

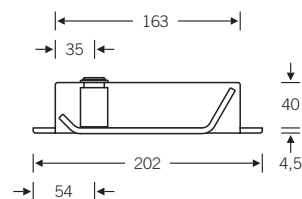
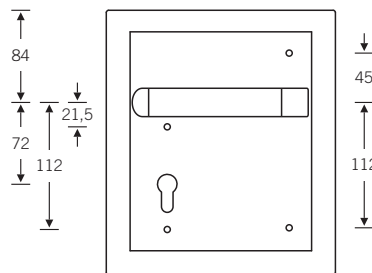
The FSB 77 7948 pull handle is combined on the opposite side with the fittings from the FSB heavy-duty range (AGL®), with a choice of backplate or rose design.

To prevent any risk of injury, ensure there is sufficient backset and that the rim fits flush with the door when fitting the pull handle.

Illustration: right

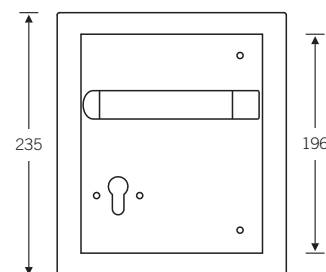
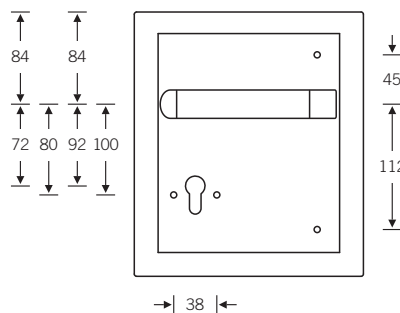
Backplate design for profile cylinder 72 mm

Inner backplate profile cylinder 72 mm:
Mod. 14 14... | 14 1450 | 14 1451



Rose design for profile cylinder 72 and 92 mm

Roses:
Mod. 17 17... | 17 1731 | 17 1735
Mod. 17 17... | 17 1703 | 17 1704



fsb.de/777948

Ordering details:


- Backplate/rose
- Direction
- Keyhole
- Spacing
- Door thickness

Please always order correct rose or backplate for the reverse side in turnably fixed design (AGL®) separately.

Gymnasium fittings

77 7949 ■



-  8 mm square
-  9 mm square

In certain installation situations, door handles are not allowed to protrude beyond the surface of the door: for example on sliding-door designs or gymnasium doors.

For these installation situations, FSB has developed so-called gymnasium fittings with integrated door handle with a reduced installation height. The FSB 77 7949 model is angular with mitre corners.

The FSB 77 7949 pull handle is combined on the reverse side with hardware from the FSB heavy-duty range (AGL®), either in a backplate or rose design. Using the FSB flush pulls requires a minimum door thickness of 55 mm.

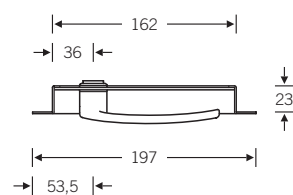
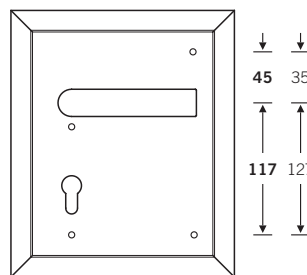
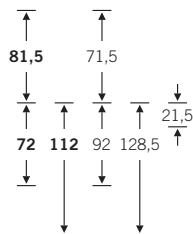
To prevent any risk of injury, when fitting the pull please ensure there is sufficient backset and that the rim fits flush with the door.

Illustration: right

3e

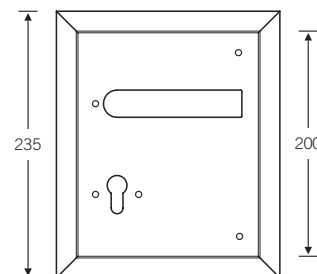
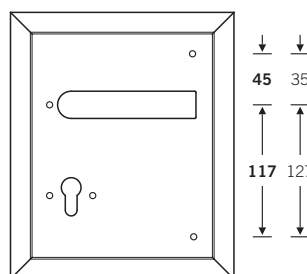
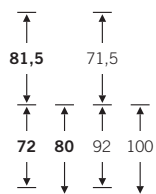
Backplate design for profile cylinder 72 and 92 mm

Inner backplate profile cylinder 72 mm:
Mod. 14 14... | 14 1450 | 14 1451
Inner backplate profile cylinder 92 mm:
Mod. 14 14... | 14 1452 | 14 1453



Rose design for profile cylinder 72 and 92 mm

Roses:
Mod. 17 17... | 17 1731 | 17 1735
Mod. 17 17... | 17 1703 | 17 1704



fsb.de/777949

Ordering details:

- Backplate/rose
- Direction
- Square 8 or 9 mm
- Keyhole
- Spacing
- Door thickness

Please always order correct rose or backplate for the reverse side in turnably fixed design (AGL®) separately.

fsb.de/catalogue

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Gymnasium fittings

77 7950 | 77 7952



- 8 mm square
- 9 mm square*

Corner radius 8 mm

Through fixing is only possible with the 92 mm profile cylinder backplate design below the handle bearing.

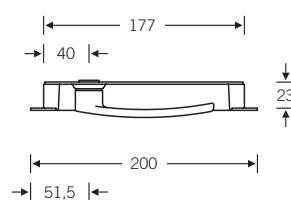
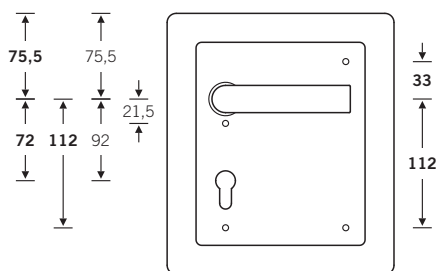
* Fire safety design only available in stainless steel

See opposite page for notes about use

Illustration: right

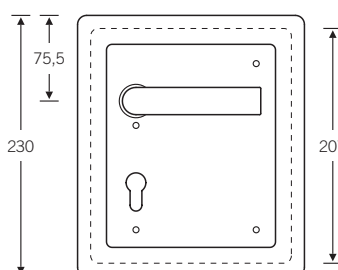
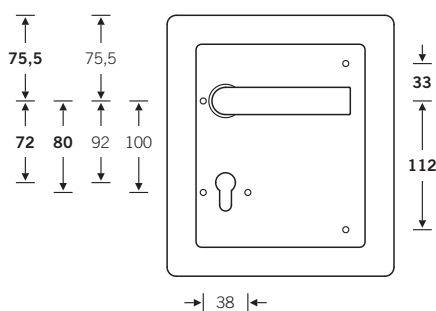
77 7950
Backplate design for profile
cylinder 72 and 92 mm

Inner backplate profile cylinder 72 mm:
Mod. 14 14... | 14 1450 | 14 1451
Inner backplate profile cylinder 92 mm:
Mod. 14 14... | 14 1452 | 14 1453
or 14 1410 | 14 1418



77 7952
Rose design for profile
cylinder 72 and 92 mm

Roses:
Mod. 17 17... | 17 1731 | 17 1735
Mod. 17 17... | 17 1703 | 17 1704



fsb.de/777950
fsb.de/777952

Ordering information:

- Backplate/rose
- Direction
- 8 or 9 mm square
- Keyhole
- Distance
- Door thickness

Please always order correct rose or backplate for the reverse side in turnably fixed design (AGL®) separately.

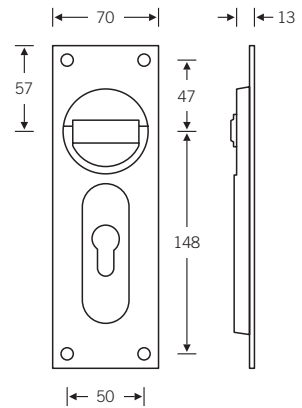
Flush ring handles

42 4205 ■



Available with:
8 mm □ hole
8 mm □ solid spindle
8 mm Stabil-spindle

lever lock or profile cylinder keyhole

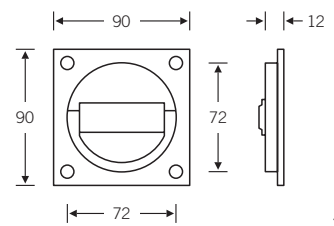


3e

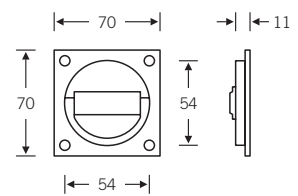
42 4203 | 42 4204 ■



Available with:
8 mm □ hole
8 mm □ solid spindle
8 mm Stabil-spindle



42 4203



42 4204

fsb.de/424205
fsb.de/424203
fsb.de/424204

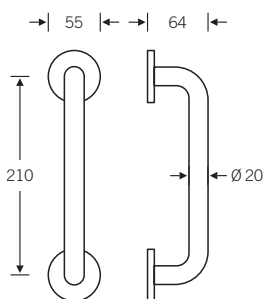
When ordering, please specify door thickness and spindle protrusion.

Drill hole for 3.5 mm countersunk screws


Handles

66 6628 

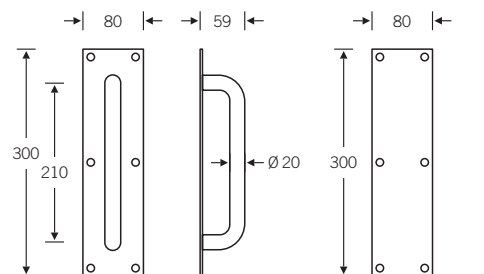
Fitted using fastening points
on the sub-rose



fsb.de/666628

66 6629 

51 5325 backplate for 66 6629
For 4.0 mm countersunk screws



fsb.de/666629

51 5325, 66 6628 and 66 6629 are suitable for combining to specify the opening direction on swing doors.

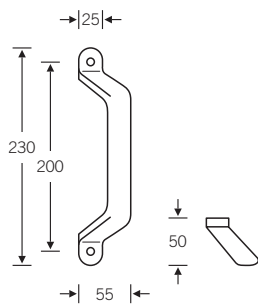
Handles

36 3603 | 36 3604 ■

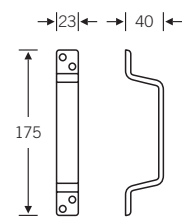
36 3617 | 36 3618 ■



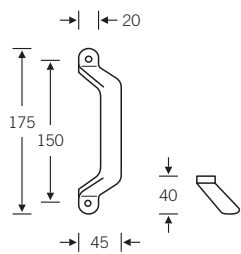
3e



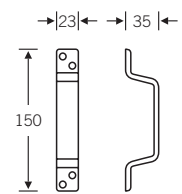
36 3603



36 3617



36 3604



36 3618

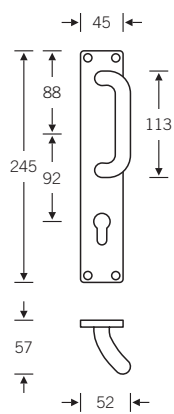
fsb.de/363603
fsb.de/363604

fsb.de/363617
fsb.de/363618

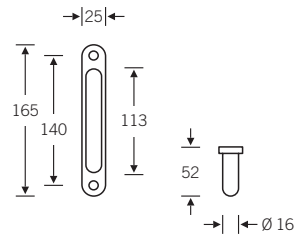
Handles

21 2144 ■

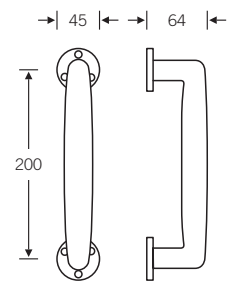
Spacing 92 mm



21 2160 ■



36 3601 ■



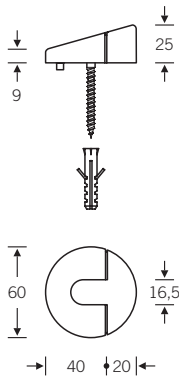
fsb.de/212144

fsb.de/212160

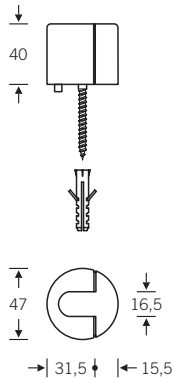
fsb.de/363601


Door stops

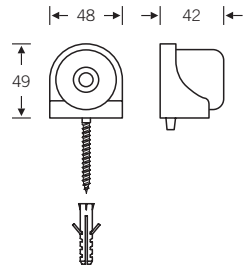
38 3816 



38 3817 



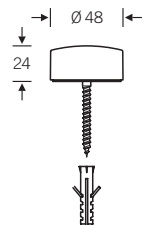
38 3888 



3e

38 3878 

Design: Christoph Ingenhoven



fsb.de/383816
fsb.de/383817
fsb.de/383878
fsb.de/383888

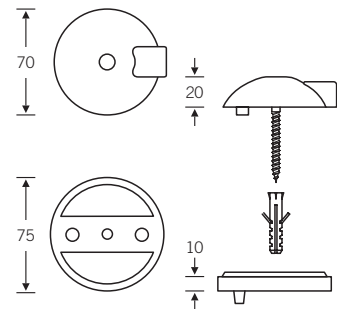
Before any order or fitting, the weight of the door, the angle of incidence, the height of the bottom edge of the door above the floor and the firmness of the floor need to be checked. According to the requirements, it is possible to choose

between simple stops, stops with anti-twist protection, stops with baseplate, directed and undirected stops as well as simple floor fastening or professional fastening using plugs.

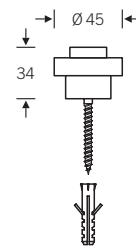
Door stops

38 3884 

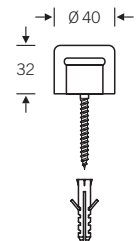
38 3884 (door stop)
38 3884 00010 (baseplate black)



38 3881 



38 3880 rubber

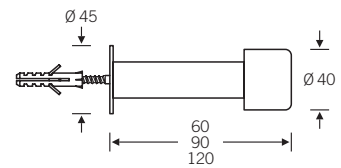


fsb.de/383884
fsb.de/383881
fsb.de/383880

Wall stops, coat hooks

38 3880 

38 3880 00002 (120 mm)
38 3880 00003 (90 mm)
38 3880 00004 (60 mm)

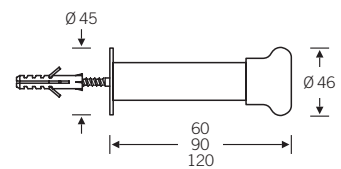



3e

38 3896 

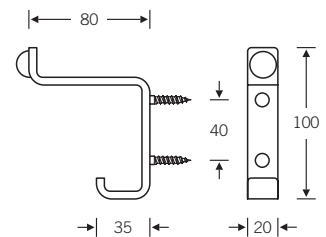
Design: Jasper Morrison

38 3896 00002 (120 mm)
38 3896 00003 (90 mm)
38 3896 00004 (60 mm)



36 3646 

36 3646 00000 (coat hook without buffer)
36 3646 00001 (coat hook with buffer)

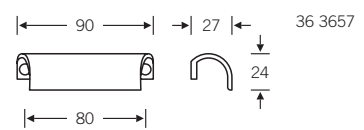
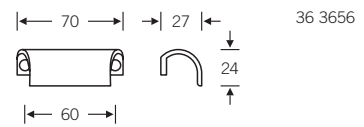


fsb.de/383880
fsb.de/383896
fsb.de/363646

Drawer pull Cabinet knobs

36 3656 | 36 3657 ■

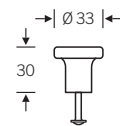
36 3656 (70 mm)
36 3657 (90 mm)



36 3689 ■

36 3689

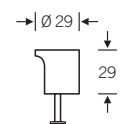
Inc. screw M4 x 30 mm



36 3691 ■■

36 3691

Inc. screw M4 x 30 mm

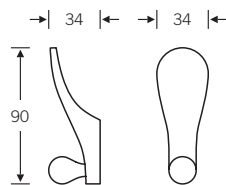


fsb.de/363656
fsb.de/363657
fsb.de/363689
fsb.de/363691

Cabinet knobs

36 3650 ■

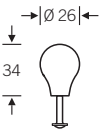
Design: Jasper Morrison



36 3654 ■■

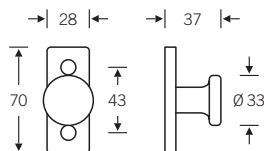
Design: Jasper Morrison

Inc. screw M4 x 30 mm



3e

36 2328 ■

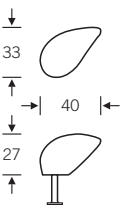


36 3632 ■■

Design: Philippe Starck

36 3632 004 (R) | 36 3632 005 (L)

Inc. screw M4 x 30 mm



fsb.de/363650
fsb.de/362328

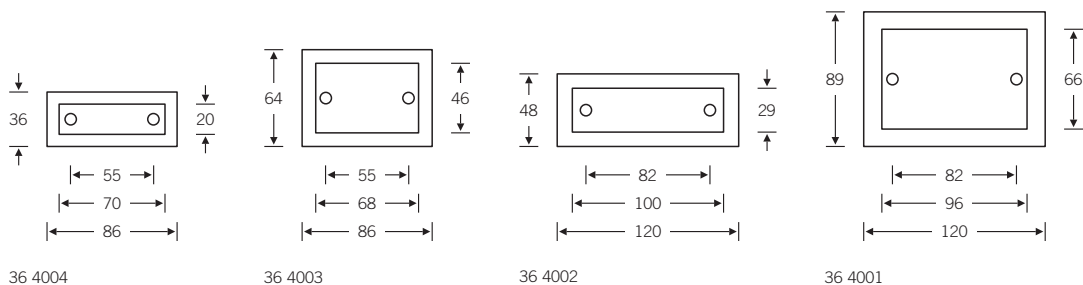
fsb.de/363654
fsb.de/363632

Label frame Cable socket

36 4001 ■

36 4001 (74 × 105 mm)
36 4002 (37 × 105 mm)
36 4003 (52 × 74 mm)
36 4004 (26 × 74 mm)

The measurements A x B (see above) correspond to the paper formats to be inserted



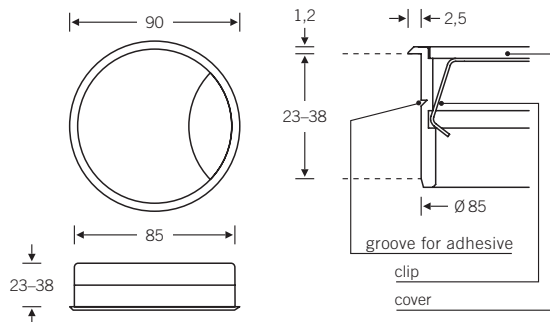
36 9865 ■■

Height without border

36 9865 00000 (38 mm)
36 9865 00002 (33 mm)
36 9865 00004 (29 mm)
36 9865 00006 (23 mm)

Outer Ø 90 mm
Inner Ø 80 mm
Recess Ø 85 mm

Border thickness 1.2 mm
Border protrusion 2.5 mm
Slot length 58 mm



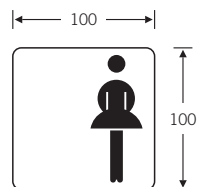
fsb.de/364001
fsb.de/369865

Information signs / pictograms

36 4059 

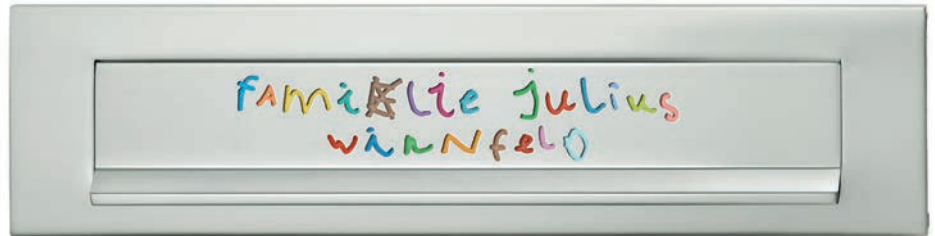
Design: Otl Aicher

- 36 4059 00002 Arrow pointing up
- 36 4059 00003 Arrow pointing left
- 36 4059 00004 Arrow pointing right
- 36 4059 00005 Arrow pointing down
- 36 405900100 Ladies' toilet
- 36 4059 00101 Men's toilet
- 36 4059 00103 Disabled people



3e

Engraving Tampo printing



Information signs, key tags, letter plates, bell-push plates, handle pads and any other flat fittings in aluminium, stainless steel, bronze and brass or, indeed, wood and glass can be engraved with illustrations, graphics, patterns, decorative material, lettering, numerals and also colours at FSB.

The various options together with the relevant technical specifications can be found below. To prepare an individual quote, we require details of the material as well as specimens of the graphics, illustrations, logos or other pictorial material as a means of gauging the work involved more accurately. We work with all the standard picture and graphics formats, i.e. pixel data such as .tiff, .jpeg or .bmp, and vector data such as .dxf, .cdr or .eps.

In the case of typographic engravings, we require precise details of fonts and sizes. Besides a broad range of fonts, we can also arrange for your script, logos or names to be input in vectored form or converted into character paths. If no details about the font type, style or size are given when ordering, we produce typographic engravings in "Arial". The font "Blair Medium" is used on the lower of the engravings shown above.

When it comes to laser engravings using pixel data, it is necessary both to check the data and carry out a simulation in combination with the desired materials before we can make a quote or commit ourselves to producing the item.

Engraving

Size of inscription area:
610 × 2,000 mm (flat)

Workpiece size:
H 50 × 650 × 2,000 mm,
cylindrical objects up to Ø 110 mm,
length 200 mm maximum

Inscriptions:
Caps height from 4.0 mm

Engravings are possible in “bare” metal or “colour filled”. Individual designs may incorporate any conventional colour system (RAL, HKS, Pantone etc.) through to paints used in the automotive industry.

Unless specified otherwise by the customer, we deliver colour fill engravings in black as standard.

Laser engraving

Size of laserable area:
610 × 610 mm (flat or slightly curved)

Workpiece size:
H 200 × 610 × 610 mm,
cylindrical objects up to Ø 110 mm,
length 360 mm maximum

Inscriptions:
Caps height from 2.0 mm

FSB now allows you to process motifs not only as vectorised data but also in the form of pixel data such as .tiff, .jpeg or .bmp, as well as to laser images or graphics. Delicate, linear design elements look particularly attractive in this way, as these can be made in very fine lines or dots using lasers.

Laser engravings (also on coloured anodised surfaces) generally have a metallic white appearance due to the oxide layer specific to aluminium. Lasered stainless steel surfaces turn black.

Tampo printing

Size of inscription area or maximum size of graphic elements: Ø 85 mm (flat)

Workpiece size:
H 150 × 300 × 200 mm,
cylindrical objects not possible

Inscriptions:
Cap height from 2.5 mm,
standard colour black,
special colours possible on request

Tampo printing is recommended for less complex mono or two-tone print objects to be produced in large quantities. Furthermore, it is an effective means of adding differently coloured details to areas colour filled by engraving or of accentuating laser engraved surfaces or designs using colours.

There is thus some scope for combining the techniques described above. If you have any questions, please contact our inhouse service staff:

Phone +49 5272 608-128
info@fsb.de

In case of special designs concerning engraving, laser engraving and tampo printing and/or special formats, please plan in additional delivery time.



Feuerwehrtafel

Heavy-duty fittings for special and functional doors

4



Lenbachhaus, Munich

www.lenbachhaus.de

Foster + Partners, London
www.fosterandpartners.com

Photograph: Nigel Young

FSB 1015 range of handles,
see page 126 ff.

FSB 1045 range of handles,
see page 154 ff.

AGL®-/AGL® FS heavy duty fittings for
fire and smoke doors,
see page 26 ff.

Frame door fittings for fire and smoke
doors FSB 06/09 1045,
see page 397 ff.

FSB 34 1015 window handles,
see page 315 ff.

Bronze lightly patinated, waxed

www.fsb.de/lenbachhaus

- 408 Handles for frame doors
- 430 Door knobs for frame doors
- 435 Roses and backplates
for frame doors
- 438 Door handle and entrance
door fittings for frame doors

4a



Overview

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09 1001 
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09 1002 
Pages 408, 409





06 1015 
09 1015 
Pages 408, 409





06 1016 
09 1016 
Pages 410, 411




06 1023 
09 1023 
Pages 410, 411





06 1031 
09 1031 
Pages 410, 411





06 1035 
09 1035 
Pages 412, 413





06 1043 
09 1043 
Pages 412, 413





06 1045 
09 1045 
Pages 412, 413



06 1053 
09 1053 
Pages 414, 415





06 1070 
09 1070 
Pages 414, 415





06 0644 
09 1074 
Pages 414, 415





06 1076 
09 1076 
Pages 416, 417



06 1078 
09 1078 
Pages 416, 417





06 1088 
09 1088 
Pages 416, 417





06 1093 
09 1093 
Pages 418, 419



06 1094 
09 1094 
Pages 418, 419





06 1107 
09 1107 
Pages 418, 419





06 1108 
09 1108 
Pages 420, 421




06 1119 
09 1119 
Pages 420, 421





06 1134 
09 1134 
Pages 420, 421





06 1144 
09 1144 
Pages 422, 423





06 1146 
09 1146 
Pages 422, 423





06 1147 
09 1147 
Pages 422, 423





06 1159 
09 1159 
Pages 424, 425





06 1160 
09 1160 
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09 1163 
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09 1164 
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09 1177 
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09 1178 
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17 1729/30 
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14 1550 
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4a

The brilliant idea of the philosopher, Ludwig Wittgenstein: in order to attach the fittings securely to the narrow profiles and avoid injury to the hand on the handle side, in the 1920s Wittgenstein produced a cranked door handle for the handle side to his own drawings that he combined on the opposite side with an uncranked door handle as a male part. The idea was and is significant for the design of handle ranges: For each new door handle design, a corresponding pair of door handles is created at FSB for frame doors. Here from the hand of David Chipperfield FSB 09 1134.

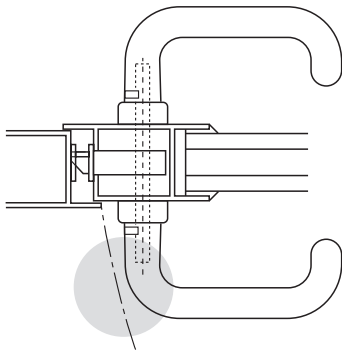
Technical information

Fittings for frame doors

FSB not only offers a complete programme of fittings such as door handles, knobs and pulls for frame doors made of metal, plastic or wood, but the company's mounting technology has also been designed to suit the particular requirements of frame doors and fittings, and has been consistently improved over the years.

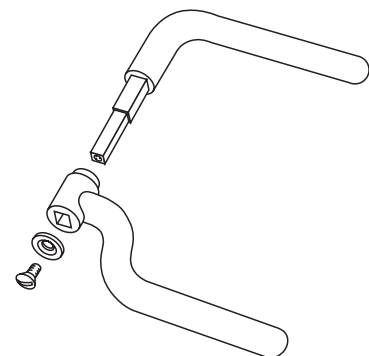
You will find detailed information on safety distances in DIN 31001.

As the result of space restrictions, with frame doors there is the risk of the hand coming into contact with the door frame on the handle side when opening or closing the door (see ill.). Another consequence of the space restrictions are certain problems when mounting the fittings. As the result of small backsets and the lack of proper screw connections within



the frame door lock, single-sided attachment has become the norm (against better knowledge) with the attendant irritation of loose and slipping fittings.

FSB's heavy-duty frame door fittings generally have an oval or square rose and an integrated positive mechanism plus turnably fixed plain bearings. Attachment is concealed, and carried out using M5 countersunk screws, screw holes 50 mm apart. The attachment of standard versions is visible, and does not include the positive mechanism.



The brilliant idea of philosopher Ludwig Wittgenstein

During a period of philosophical reflection in the 1920s Ludwig Wittgenstein, the Austrian philosopher and qualified engineer, planned and designed Palais Wittgenstein for his sister in Vienna. One of his challenges included dealing with very narrow steel profiles.

In order to attach the fittings securely to the narrow profiles and avoid injury to the hand on the handle side, Ludwig Wittgenstein produced a cranked door handle for the handle side to his own drawings that he combined on the opposite side with an uncranked door handle as a male part.

The linguist found the first convincing responses to the risk of trapping and the problems of attachment that continue to this day (see ill.) in this combination of a cranked female part and standard male part.

The idea was and is significant in FSB's designs of new handle programmes. To this day, a formal-aesthetically balanced cranked version for the handle side of the frame door is still created by the hand of the respective designer for each new door handle design.

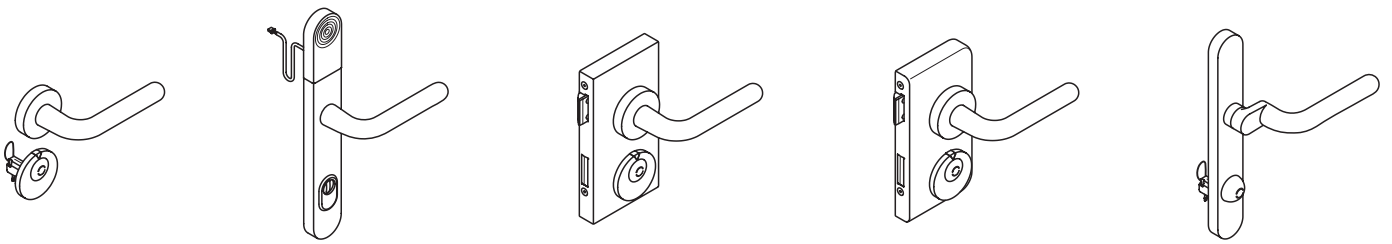
Ludwig Wittgenstein meets isis® access management

Ludwig Wittgenstein, when designing his sister's house and the interior fittings in his own unpretentious way – particularly where the door handles were concerned – unintentionally and unwittingly created a modern classic. The fact that his creation would one day be promoted to the logo of the FSB brand and furthermore would become part of the isis® locking solutions with electronic access management function, was certainly not his intention, as the latter was, after all, well beyond the technical capabilities of his era. It is undisputed, however, that the various isis® fittings for the different structural elements (solid,

fully glazed, frame and external doors) follow the same clear operating philosophy and easy to understand product language as the Austrian philosopher and architect expressed in his work and philosophical treatises. We assume that he would have been pleased with our hardware-based isis® access management concept. You too, perhaps? You can find out more detailed information from page 45 or under

www.fsb.de/isis

4a



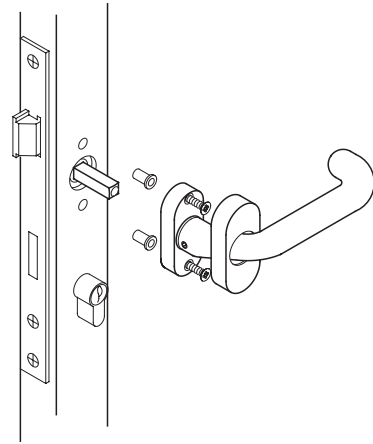
The Wittgenstein House, Vienna 1928

Technical information

Fittings for frame doors

FSB fixing technology for frame door fittings

Spurred on variously by Wittgenstein's breakthrough, our knowledge of the notorious fixing problems involved and the innovations developed in co-operation with the Sächsische Schlossfabrik (SSF), FSB has realigned its fixing system for frame door fittings and based it on new system-led technical foundations. We have revised the key factors as follows:



1 Mounting accessories included in delivery

In the past, we often had to deal with complaints that were the result of fittings not having been installed in accordance with their function or our recommendations. To avoid these difficulties, our products are now supplied with the corresponding fittings. The fixing materials consist of M5 non-loosening screws and riveting nuts as appropriate to the base construction of the frame door fittings. The heads of the riveting nuts (11 mm diameter) fit perfectly on the underside of FSB fittings for frame doors. Please note that a standard commercial assembly tool is required for inserting the blind riveting nuts.

The combination of riveting nuts, base construction (with integrated slip and screw safety) and non-loosening screws ensures that the fittings can be attached without working loose or moving around (ill. top). FSB will not accept any complaints for problems that are due to the failure to use original FSB mounting accessories.

2 Wittgenstein's solution

FSB also recommends honouring Wittgenstein's approach anew in practical use with a combination of cranked and uncranked door handles, both in order to avoid injury to the user and in the interests of achieving the optimum fixation with the optimum power transmission into the frame door profile. In our case, the cranked door handle is used as the male part, and a solid connection created with the uncranked door handle (female part; ill. 1 on the following page). RT special spindle 05 0525 is to be used for this; see page 713. All FSB solid spindles are notable in particular for the advantages 2.1 to 2.3 listed on the following page.

2.1

Male part: connection between handle and square spindle

The male part of the door handle is tightened securely and safely by screwing in a threaded pin. The steel pin of the threaded pin slides perfectly into a corresponding drill hole on the square spindle, where it creates a permanent non-positive connection between the door handle and the square spindle.

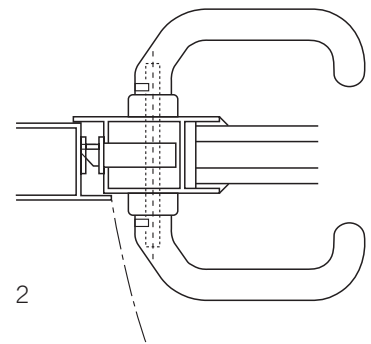
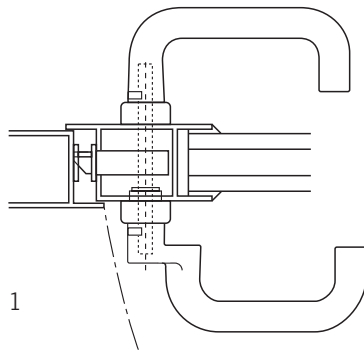
2.2

Fixed pinned fittings

On the opposite side, the female part of the frame door handle is reliably and safely secured by the FSB clamping anchor spring (which has proven itself a million times over) to create a fixed pinned fitting. Mounted properly (threaded pin flush with the surface of the handle), the clamping anchor spring creates a permanently reliable fixed handle/pin connection that – for good reason – is a fundamental component in all FSB Stabil spindles.

You will find the various application-based pin designs for all other FSB frame door combinations as per the illustrations on page 407. All FSB frame door handles with roses that are invisibly mounted have a pre-head drill as standard. This means that loose or floating pins that, despite better knowledge, are commonly used in metal construction are now a thing of the past.

4a



2.3

Effective load absorption and dissipation

Another advantage of the above aspects on pinning is that the axial forces that occur when the door and door handle are activated are absorbed far more efficiently than they are with floating pin connections and dissipated to the frame door profile: this means that the leverage effects of the occurring loads are compensated for from the beginning by the best possible reduction in the mounting tolerances of all involved component groups. This will effectively prevent the handle/pin connection from gradually working loose from the outset.

3

Slip and screw safety

Irrespective of the use of the riveting nut and non-loosening screws, all FSB roses for frame door fittings are fitted with friction caps made of a rubber-like synthetic material within the screw gland sockets. These friction caps project very slightly beyond the underside of the rose, and are compressed by the screwing torque. On the one hand they act to prevent slipping on the profile, and on the other – thanks to the simultaneous axial and radial tension – they stop the screws from working loose.

SSF locks for tubular frame doors

Series 01 and 02

SSF locks: fixing technology with optional through screw connection

For a reputable company, not only should adequate product solutions be a matter of course, but reliable function should also continue throughout the product's entire life cycle. As an option, FSB has matched the fixing technology of its frame door fittings to SSF frame door locks with the through screw connection points of series 01 and 02 (ill. right). This requires a special fixing set (product no. 05 0526 01..., ill. below; see also page 712), which is used to fit the FSB frame door fittings to order and prepare them at the factory. The set includes the screws and supporting lugs in metal for the particular door thickness, which are precision fit in the base construction in place of the rubber brake caps and are additionally secured on one side with an M5 screw.

This fixing solution dispenses with the requirement for riveting nuts because the metal supporting lugs are inserted in both sides of the frame door profile, and thus perform the function of the riveting nuts. As FSB carries out the preparation of the half sets, the two measures ensure an effective and significant reduction of the assembly time since, thanks to the through screw connection, the frame door set now requires only two screws for fixing. The described spindle solutions also apply with this fixing technology.



Series 01 (bolt throw 15 mm)

- Mortise locks to DIN 18 251-2, class 1

Series 02 (bolt throw 21 mm)

- Mortise locks to DIN 18 251-2, class 3, with bolt throw 21 mm or as a 34.5 mm swivel hook deadlock
- Anti-panic mortise locks for single leaf tubular frame doors (APE, APB, APD)
- Roller latches to DIN 18 251-2, class 3
- Roller latches to DIN 18 251-2, class 3, standard length and short version
- Deadlocks to DIN 18 251-2, class 3, standard length and short version

SSF's lock programme also includes mortise locks for

- interior doors
- apartment entrance doors
- house doors
- heavy-duty doors
- fire safety and panic doors
- plus special locks, strike plates and accessories.

You will find detailed information in SSF's current lock catalogue, which you can obtain directly from Saxony:

SSF – Sächsische Schlossfabrik GmbH
Am Pappelhain 10
04539 Groitzsch
Phone +49 34296 733-00
Fax +49 34296 733-11

SSF tubular framed locks are notable for the following product features:

- dust-protected through screw holes through the item to attach the frame door handle
- clamp nut
- latch can be used right/left
- galvanised lock cylinder, closed top and bottom, through screw holes protected against dust
- comfort function in the form of a low-noise latch (except on roller locks and deadlocks)

or through the Internet:
www.ssf.de | info@ssf.de

SSF – a member of the FSB group of companies



Spindles for frame doors

Application-based FSB fixing accessories and spindle designs for frame door handles

It is common practice for frame door fittings to be compiled from individual components to suit the particular application. FSB meets this requirement with a comprehensive and appropriate spindle concept. The following FSB spindles are to be used for the individual applications.

Aluminium finishes

Please note that the following frame door handles and frame door knobs 07 0811, 07 0812 and 07 0873 are only available in aluminium FSB 0105:

- 06 0644 / 09 1074
- 06/09 1001
- 06/09 1002
- 06/09 1031
- 06/09 1134
- 06/09 1035
- 06/09 1163
- 06/09 1164
- 06 1223

Ö-Norm (Austrian Standard)

Individual frame door handles (06/09 1035 and 06/09 1159), which are available in both aluminium and stainless steel, are sometimes labelled with the information that these are only approved (in accordance with DIN 18 273) in stainless steel in the fire safety version. This does not apply in the form to FS versions made of aluminium according to the Ö-Norm – these are permitted and can be supplied. On the subject of this special feature caused by the standard, there is a self-contained product overview: our Ö-Norm price list, which also contains heavy-duty fittings from other product areas. On request, we would be happy to send this to you.

Concealed screw connection

1. Frame door handle in combination with SSF tubular frame locks with through screw sleeves (series 01 and 02): fixing set 05 0526 01 ... – see page 712). FSB frame door fittings can be ordered with this accessory fitted at the factory.
2. To combine two cranked frame door handles (fig. 2 – designs 06 + 06): accessories bag 05 0525 028.. (□ 8 mm) or 05 0525 029.. (□ 9 mm), see page 713.
3. To combine frame door handle with cranked FD handle (fig. 1, the “Wittgenstein solution” – designs 09 + 06): accessories bag 05 0525 018.. (□ 8 mm) or 05 0525 019.. (□ 9 mm), see page 713.
4. To combine two frame door handles for emergency exits to DIN EN 179 or for fire safety doors with panic locks: FSB special spindle 05 0125, see page 711
5. For frame door half sets for one-sided attachment: also full spindles 05 0172 008.. (□ 8 mm) or 05 0173 019.. (□ 9 mm) with door thickness increments other than under 6, see page 712.

Exposed screw connection

6. To combine two cranked frame door handles (06 + 06): full spindles 05 0172 008.. (□ 8 mm), see page 712.

Our sales team or FSV application technology will be pleased to help you with the precise specification for your order with regard to your particular application and the door thickness.

Positive mechanism

Almost the entire FSB range for frame doors is fitted with a positive mechanism to support the lock springs that permits a maximum actuation angle of 45 °C.

Positive mechanism in combination with inactive leaf fittings

Cranked frame door handles that are to be used on inactive leaves should be ordered under the specific product numbers 06 23 (oval roses) or 06 73 (rectangular roses), and will be supplied from the factory without the positive mechanism.

Frame door handles used in combination with drive dead bolts without spring support and actuation angles of < 45° are to be used with a positive mechanism.

Should the actuation angle be > 45°, and if any designs are to be used as inactive leaf fittings at the same time (i. e. without the positive mechanism), then as a general rule bronze versions and stainless steel designs

- 06/09 1163 ...
- 06 1164 ...

are to be equipped with spring-assisted locks.




Cranked door handles for frame doors

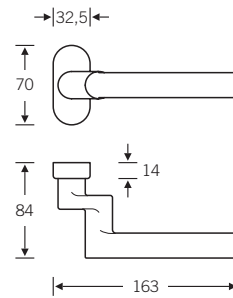
For technical information see page 402f.

06 1001

Design: Peter Bastian





-  06 1001 011*
-  06 1001 012*
-  06 1001 023 (inactive leaf)*



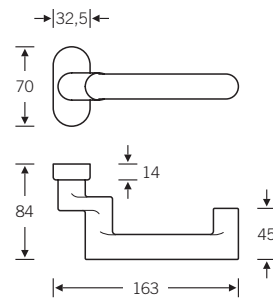
06 1002

Design: Peter Bastian






-  06 1002 012*
-  06 1002 023 (inactive leaf)*

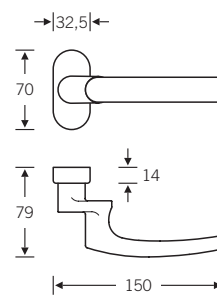
EN179



06 1015



-  06 1015 011
-  06 1015 012
-  06 1015 023 (inactive leaf)



fsb.de/061001
fsb.de/061002
fsb.de/061015

* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406

Door handles for frame doors

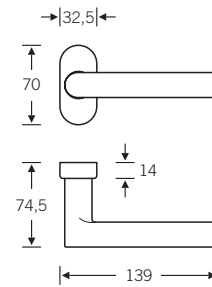
For technical information see page 402f.

09 1001 ■

Design: Peter Bastian

☞ 09 1001 011*

☞ 09 1001 012*



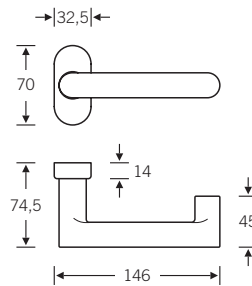
4a

09 1002 ■

Design: Peter Bastian

☞ 09 1002 012*

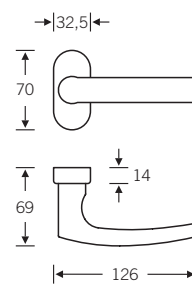
EN179



09 1015 ■ ■ ■

☞ 09 1015 011

☞ 09 1015 012



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fsb.de/091002
fsb.de/091015




* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406

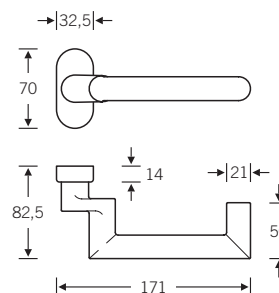
Cranked door handles for frame doors

For technical information see page 402f.




06 1016 

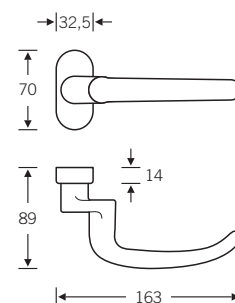
-  06 1016 011
-  06 1016 012
-  06 1016 023 (inactive leaf)


EN 179





06 1023 

-  06 1023 011
-  06 1023 012
-  06 1023 023 (inactive leaf)

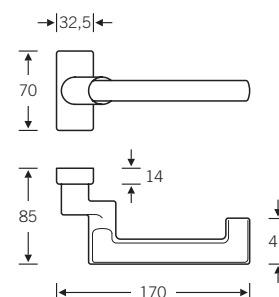


06 1031 

Design: Heike Falkenberg

-  06 1031 072*
-  06 1031 073 (inactive leaf)*

EN 179



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fsb.de/061023
fsb.de/061031



* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406

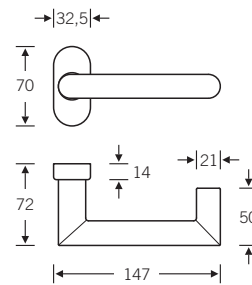
Door handles for frame doors

For technical information see page 402f.

09 1016 



 09 1016 011
 09 1016 012

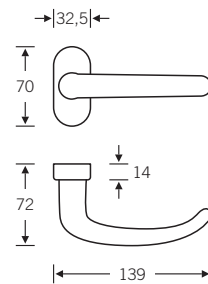
EN179




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09 1023 

 09 1023 011
 09 1023 012

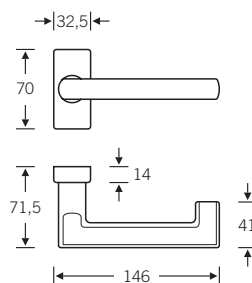
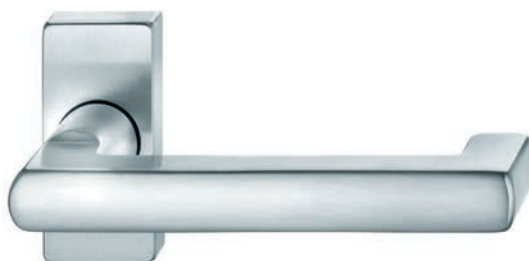


09 1031 

Design: Heike Falkenberg

 09 1031 072*

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fsb.de/091031

* In aluminium only available in natural anodised finish (FSB 0105)

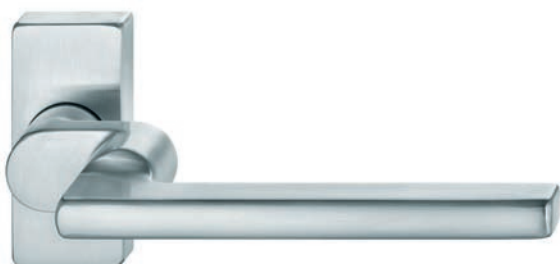
SSF tubular frame locks with optional through screw connection see page 406




Cranked door handles for frame doors

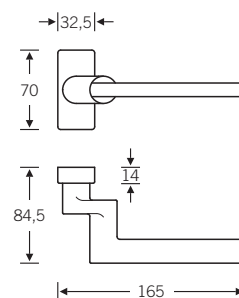
For technical information see page 402f.

06 1035 

Design: Heike Falkenberg






-  06 1035 071*
-  06 1035 072*/**
-  06 1035 073 (inactive leaf)*/**



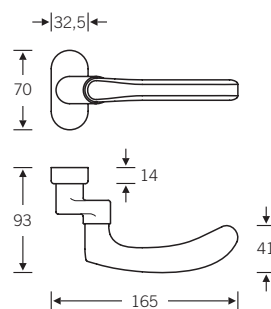
06 1043 

Design: Christoph Mäckler






-  06 1043 011
-  06 1043 012
-  06 1043 023 (inactive leaf)

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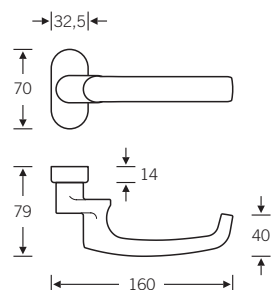


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-  06 1045 011
-  06 1045 012
-  06 1045 023 (inactive leaf)

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fsb.de/061045

* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406

** only in stainless steel, according to Ö-Norm permitted in aluminium


Door handles for frame doors

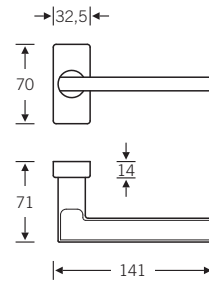
For technical information see page 402f.

09 1035 

Design: Heike Falkenberg

 09 1035 071*


 09 1035 072**/**



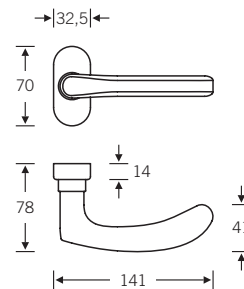
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09 1043 

Design: Christoph Mäckler


 09 1043 012

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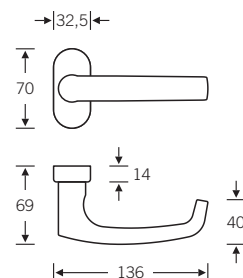


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* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406

** only in stainless steel, according to Ö-Norm permitted in aluminium

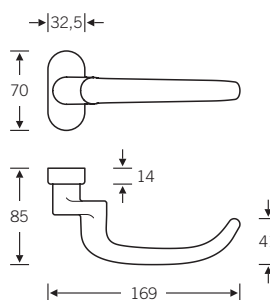
Cranked door handles for frame doors

For technical information see page 402f.




06 1053 

 06 1053 012
 06 1053 023 (inactive leaf)

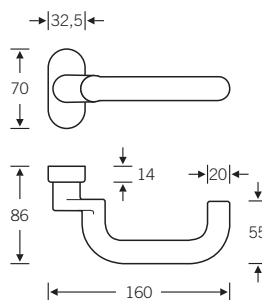
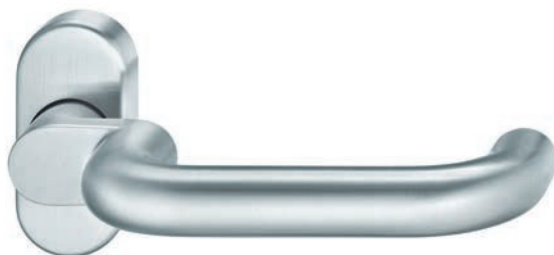
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06 1070 




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 06 1070 023 (inactive leaf)

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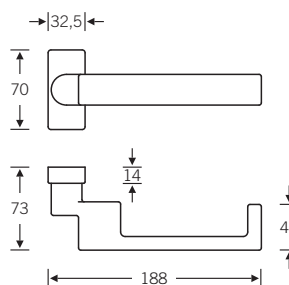


06 0644 

Design: Hadi Teherani

 06 0644 071*
 06 0644 072*
 06 0644 073 (inactive leaf)*

EN179



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fsb.de/061070
fsb.de/060644

* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406

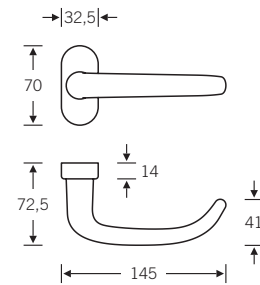
Door handles for frame doors

For technical information see page 402f.

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 09 1053 012

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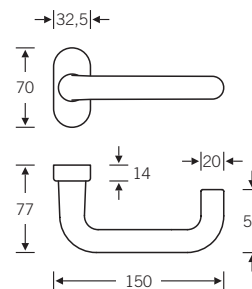



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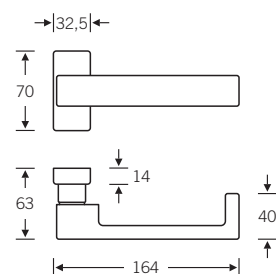
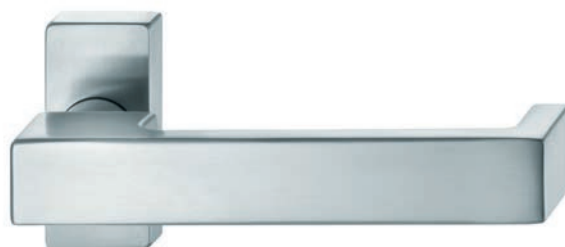


09 1074 

Design: Hadi Teherani

 09 1074 072**

EN179



fsb.de/091053
fsb.de/091070
fsb.de/091074




** suitable for backset from 40 mm, in aluminium only available in natural anodised finish (FSB 0105)

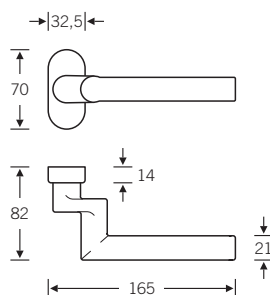
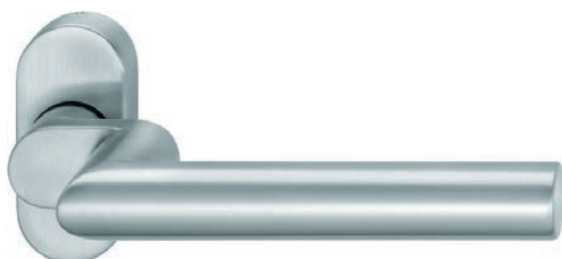
SSF tubular frame locks with optional through screw connection see page 406


Cranked door handles for frame doors

For technical information see page 402f.




06 1076 

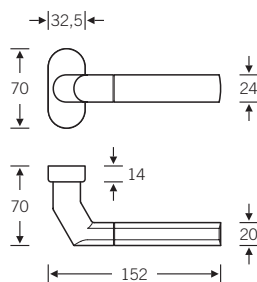
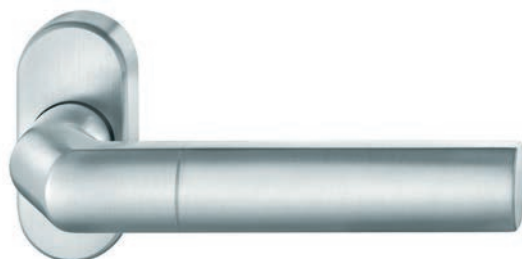
-  06 1076 011
-  06 1076 012
-  06 1076 023 (inactive leaf)



06 1078 



Design: Christoph Ingenhoven

-  06 1078 011
-  06 1078 012
-  06 1078 023 (inactive leaf)

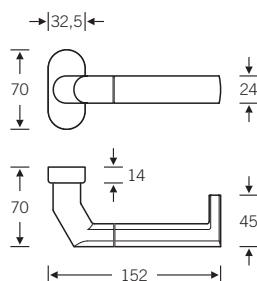
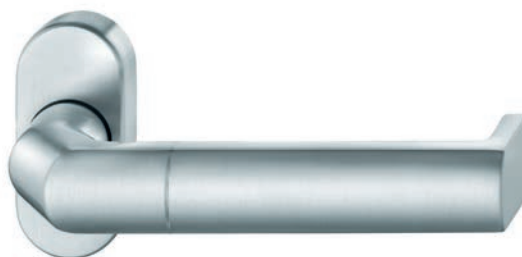


06 1088 

Design: Christoph Ingenhoven

-  06 1088 012
-  06 1088 023 (inactive leaf)

EN179





fsb.de/061076
fsb.de/061078
fsb.de/061088

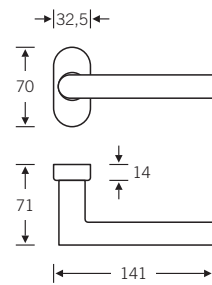
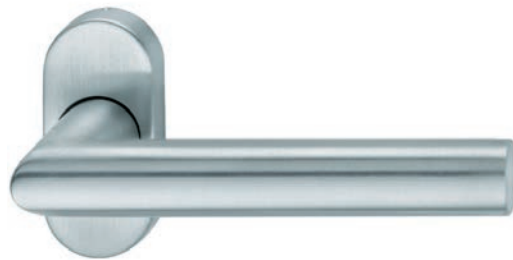
SSF tubular frame locks with optional
through screw connection see page 406

Door handles for frame doors


For technical information see page 402f.

09 1076 



 09 1076 011
 09 1076 012

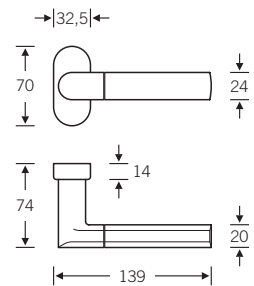


4a

09 1078 


Design: Christoph Ingenhoven

 09 1078 011
 09 1078 012

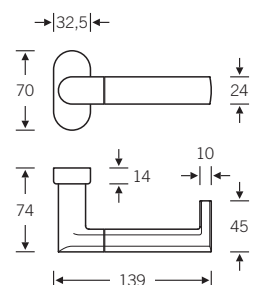


09 1088 

Design: Christoph Ingenhoven

 09 1088 012

EN 179



fsb.de/091076
fsb.de/091078
fsb.de/091088

SSF tubular frame locks with optional
through screw connection see page 406




Cranked door handles for frame doors

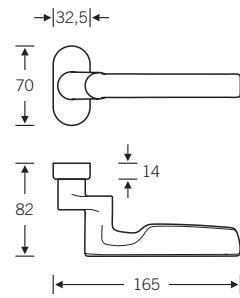
For technical information see page 402f.

06 1093 

Design: Jahn/Lykouria





-  06 1093 011
-  06 1093 012
-  06 1093 023 (inactive leaf)



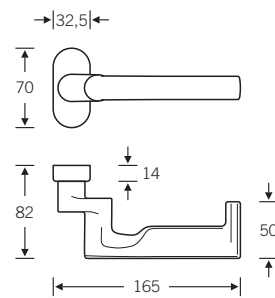
06 1094 

Design: Jahn/Lykouria



-  06 1094 012
-  06 1094 023 (inactive leaf)




EN179

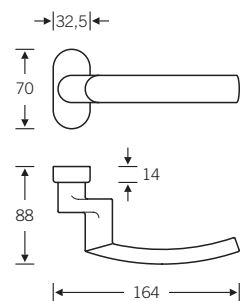


06 1107 

Design: Hartmut Weise



-  06 1107 011
-  06 1107 012
-  06 1107 023 (inactive leaf)



fsb.de/061093
fsb.de/061094
fsb.de/061107


SSF tubular frame locks with optional
through screw connection see page 406


Door handles for frame doors

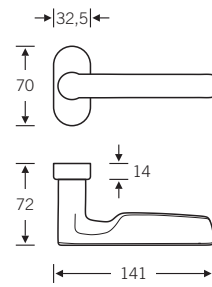
For technical information see page 402f.

09 1093 

Design: Jahn/Lykouria

 09 1093 011

 09 1093 012



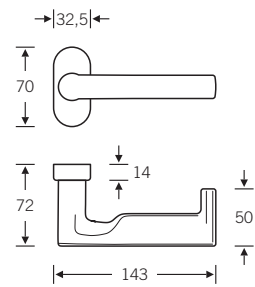
4a

09 1094 

Design: Jahn/Lykouria


 09 1094 012


EN179

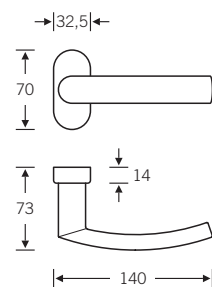


09 1107 

Design: Hartmut Weise

 09 1107 011

 09 1107 012



fsb.de/091093
fsb.de/091094
fsb.de/091107

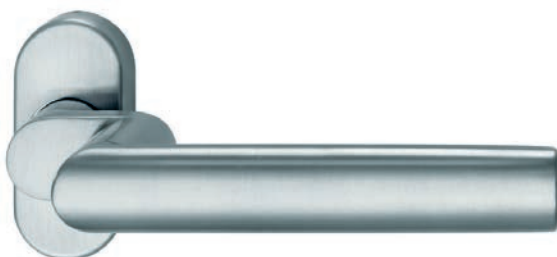
SSF tubular frame locks with optional
through screw connection see page 406




Cranked door handles for frame doors

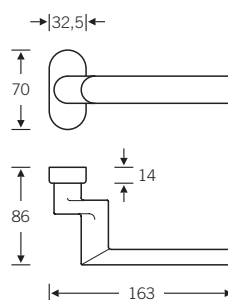
For technical information see page 402f.

06 1108 

Design: Hartmut Weise







-  06 1108 011
-  06 1108 012
-  06 1108 023 (inactive leaf)

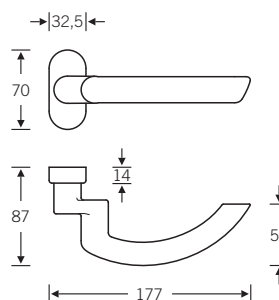


06 1119 

Design: Hartmut Weise







-  06 1119 01144 (R) | 01145 (L) 
-  06 1119 01264 (R) | 01265 (L)
-  06 1119 02364 (R) | 02365 (L) (Idf)

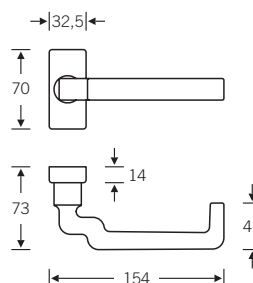


06 1134 

Design: David Chipperfield



-  06 1134 071*
-  06 1134 072*
-  06 1134 073 (inactive leaf)* 



fsb.de/061108
fsb.de/061119
fsb.de/061134

* In aluminium only available in natural anodised finish (FSB 0105)


SSF tubular frame locks with optional through screw connection see page 406


Door handles for frame doors

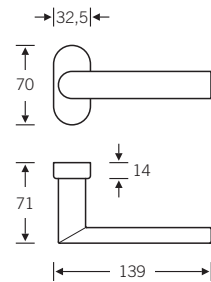
For technical information see page 402f.

09 1108 

Design: Hartmut Weise

 09 1108 011

 09 1108 012




09 1119 

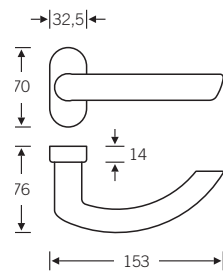
Design: Hartmut Weise

 09 1119 01144 (R) | 01145 (L)

 09 1119 01264 (R) | 01265 (L)


 09 1119 02364 (R) | 02365 (L) (ldf)

EN179

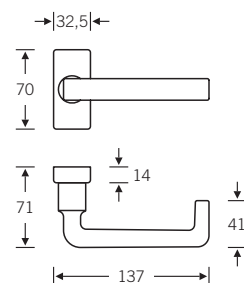


09 1134 

Design: David Chipperfield

 09 1134 072*

EN179



fsb.de/091108
fsb.de/091119
fsb.de/091134

* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406




Cranked door handles for frame doors

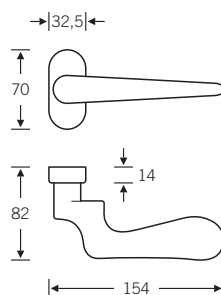
For technical information see page 402f.

06 1144 

Design: Jasper Morrison






-  06 1144 011
-  06 1144 012
-  06 1144 023 (inactive leaf)

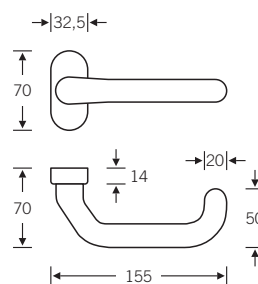


06 1146 






-  06 1146 011
-  06 1146 012
-  06 1146 023 (inactive leaf)

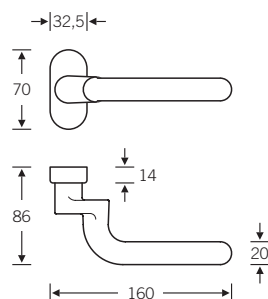
EN179



06 1147 



-  06 1147 011
-  06 1147 012
-  06 1147 023 (inactive leaf)



fsb.de/061144
fsb.de/061146
fsb.de/061147



SSF tubular frame locks with optional
through screw connection see page 406

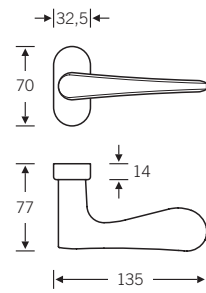
Door handles for frame doors

For technical information see page 402f.

09 1144 



Design: Jasper Morrison

 09 1144 011
 09 1144 012

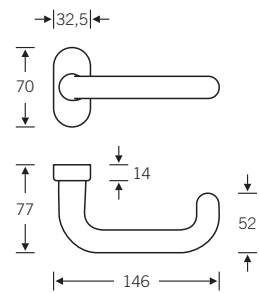


4a



09 1146 

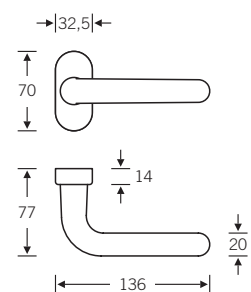
 09 1146 011
 09 1146 012

EN 179



09 1147 

 09 1147 011
 09 1147 012




fsb.de/091144
fsb.de/091146
fsb.de/091147

SSF tubular frame locks with optional
through screw connection see page 406




Cranked door handles for frame doors

For technical information see page 402f.

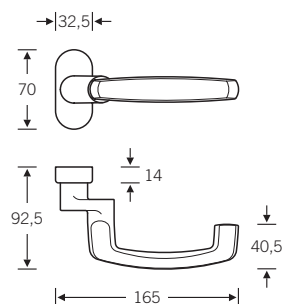
06 1159 

Design: Laurids und Manfred Ortner






-  06 1159 011
-  06 1159 012**
-  06 1159 023 (inactive leaf)*

EN179

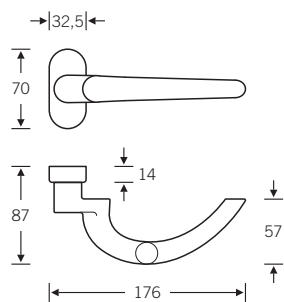


06 1160 



-  06 1160 011
-  06 1160 012
-  06 1160 023 (inactive leaf)




EN179

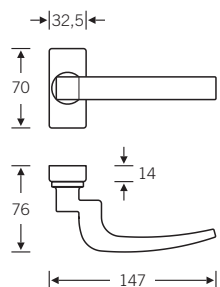


06 1163 

Design: Hans Kollhoff



-  06 1163 071*
-  06 1163 072*
-  06 1163 073 (inactive leaf)*



fsb.de/061159
fsb.de/061160
fsb.de/061163


* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406



** only in stainless steel, according to Ö-Norm permitted in aluminium

Door handles for frame doors

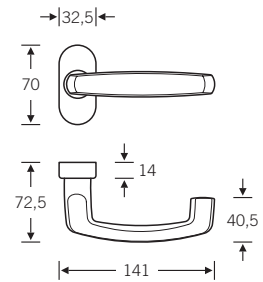
For technical information see page 402f.

09 1159 

Design: Laurids und Manfred Ortner

 09 1159 011
 09 1159 012**



EN179



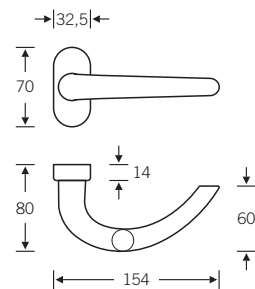
4a

09 1160 





 09 1160 011
 09 1160 012

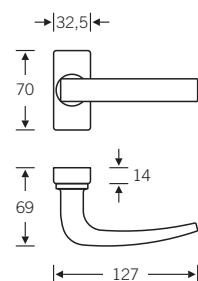
EN179



09 1163 

Design: Hans Kollhoff

 09 1163 071*
 09 1163 072*



fsb.de/091159
fsb.de/091160
fsb.de/091163

* In aluminium only available in natural anodised finish (FSB 0105)

** only in stainless steel, according to Ö-Norm permitted in aluminium



SSF tubular frame locks with optional through screw connection see page 406

Cranked door handles for frame doors

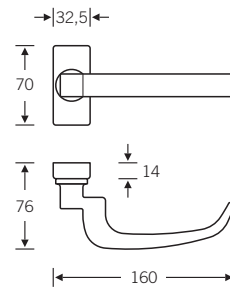
For technical information see page 402f.

06 1164 

Design: Hans Kollhoff



 06 1164 072*
 06 1164 073 (inactive leaf)*

EN179

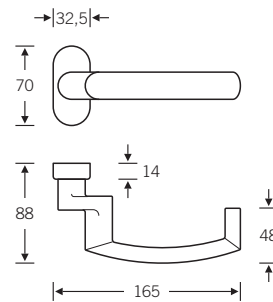
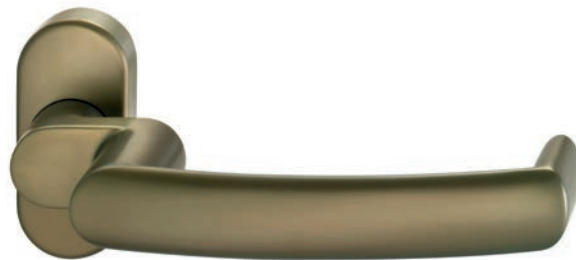


06 1177 

Design: Hartmut Weise



 06 1177 012
 06 1177 023 (inactive leaf)

EN179

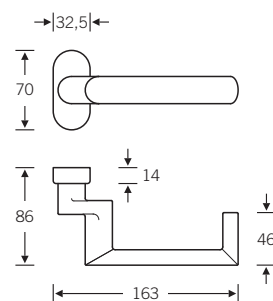


06 1178 

Design: Hartmut Weise

 06 1178 012
 06 1178 023 (inactive leaf)

EN179




fsb.de/061164
fsb.de/061177
fsb.de/061178

* In aluminium only available in natural anodised finish (FSB 0105)

SSF tubular frame locks with optional through screw connection see page 406


Door handles for frame doors

For technical information see page 402f.

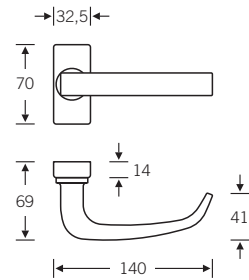
09 1164 

Design: Hans Kollhoff



 09 1164 072*

EN179




4a

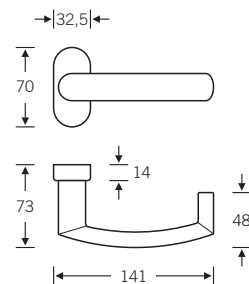
09 1177 

Design: Hartmut Weise



 09 1177 012


EN179



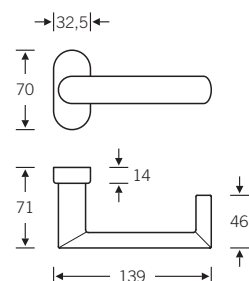
09 1178 

Design: Hartmut Weise



 09 1178 012

EN179



fsb.de/091164
fsb.de/091177
fsb.de/091178

* In aluminium only available in natural anodised finish (FSB 0105)

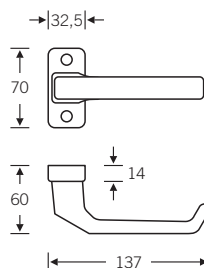
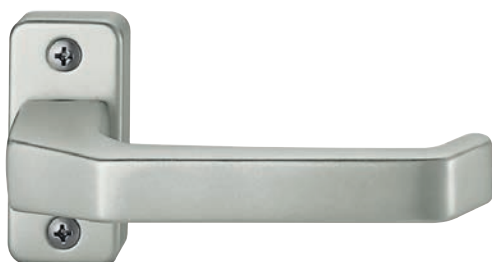
SSF tubular frame locks with optional through screw connection see page 406

Cranked door handles for frame doors

For technical information see page 402 f.

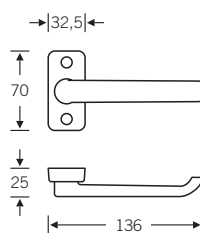
06 0605 ■ □

☞ 06 0605 013



09 1087 ■ □

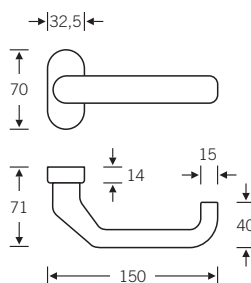
☞ 09 1087 002



06 0662 ■ □ ■

☞ 06 0662 011
☞ 06 0662 012
☞ 06 0662 023 (inactive leaf)

EN179



fsb.de/060605
fsb.de/060634
fsb.de/060662

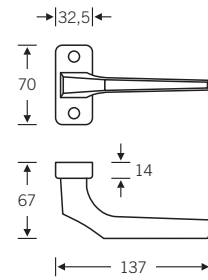
SSF tubular frame locks with optional
through screw connection see page 406

Cranked door handles with positive mechanism for frame doors

For technical information see page 402f.

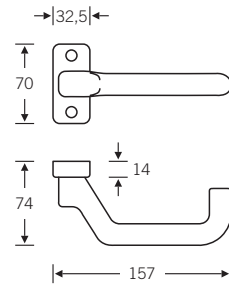
06 0620 ■ □

↻ 06 0620 016



06 0663 ■ □

↻ 06 0663 016



4a

fsb.de/060620
fsb.de/060663


SSF tubular frame locks with optional
through screw connection see page 406


Door knobs for frame doors

For technical information see page 402 f.

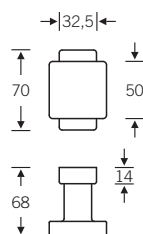
07 0811 

Fixed

 07 0811 229 Aluminium*
Stainless steel
Bronze


 07 0811 229 Stainless steel
Bronze


 07 0811 429 Aluminium*



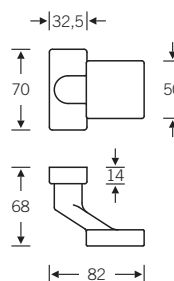
07 0812 

Fixed

 07 0812 229 Aluminium*
Stainless steel
Bronze

 07 0812 229 Stainless steel
Bronze

 07 0812 429 Aluminium*



fsb.de/070811
fsb.de/070812

* In aluminium only available in natural anodised finish (FSB 0105)






SSF tubular frame locks with optional through screw connection see page 406

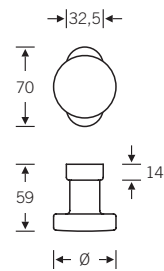
Door knobs for frame doors

For technical information see page 402f.

07 0829 








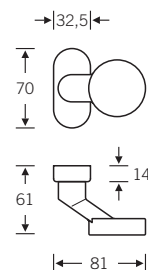
- | | | | |
|-----------------|---|-------------|--|
| Turnably fixed |  | 07 0829 128 | (not in bronze) |
| |  | 07 0829 328 | (not in bronze) |
| Fixed |  | 07 0829 228 | Aluminium
Stainless steel
Bronze |
| |  | 07 0829 228 | Stainless steel
Bronze |
| |  | 07 0829 428 | Aluminium |
| Aluminium | | Ø = 50 mm | |
| Stainless steel | | Ø = 55 mm | |
| Bronze | | Ø = 50 mm | |



07 0809 



- | | | | |
|----------------|---|-------------|--|
| Turnably fixed |  | 07 0809 128 | (not in bronze) |
| |  | 07 0809 328 | (not in bronze) |
| Fixed |  | 07 0809 228 | Aluminium
Stainless steel
Bronze |
| |  | 07 0809 228 | Stainless steel
Bronze |
| |  | 07 0809 428 | Aluminium |



fsb.de/070829
fsb.de/070809

SSF tubular frame locks with optional
through screw connection see page 406

4a


Door knobs for frame doors

For technical information see page 402f.

07 0802 



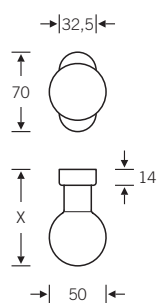
Turnably fixed  07 0802 128
 07 0802 328

Fixed  07 0802 228 Aluminium
 Stainless steel
 Bronze

 07 0802 228 Stainless steel
 Bronze

 07 0802 428 Aluminium


Aluminium X = 85 mm
 Stainless steel X = 81 mm
 Bronze X = 80 mm



07 0846 

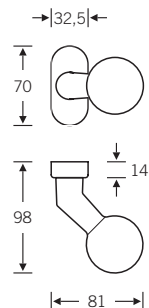


Turnably fixed  07 0846 128
 07 0846 328

Fixed  07 0846 228 Aluminium
 Stainless steel
 Bronze

 07 0846 228 Stainless steel
 Bronze

 07 0846 428 Aluminium




fsb.de/070802
fsb.de/070846

SSF tubular frame locks with optional
 through screw connection see page 406

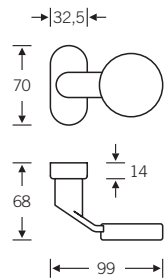
Door knobs and bolts for frame doors

For technical information see page 402 f.

07 0854 

Turnably fixed  07 0854 128

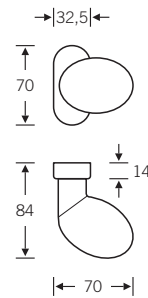
Fixed  07 0854 228
 07 0854 228



07 0804  


Turnably fixed  07 0804 128

Fixed  07 0804 228

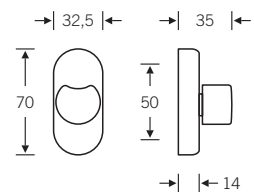


4a

03 0418    

 03 0418 003

8 mm □ hole
 spindle projection standard 40 mm
 individual spindle projections possible



fsb.de/070854
fsb.de/070804
fsb.de/030418

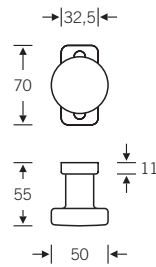
SSF tubular frame locks with optional
 through screw connection see page 406

Door knobs for frame doors



For technical information see page 402f.

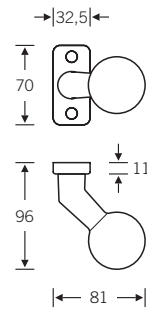
07 0829 ■

Turnably fixed  07 0829 102
Fixed  07 0829 202





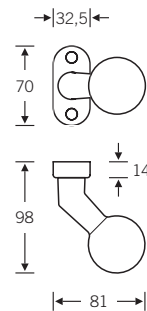
07 0846 ■

Turnably fixed  07 0846 102
Fixed  07 0846 202



07 0846 ■

Turnably fixed  07 0846 108
Fixed  07 0846 208



fsb.de/070829
fsb.de/070846

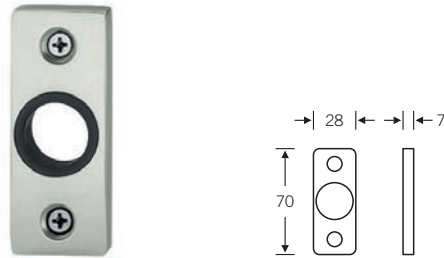
SSF tubular frame locks with optional
through screw connection see page 406

Roses and doorplates for frame doors

For technical information see page 268f.

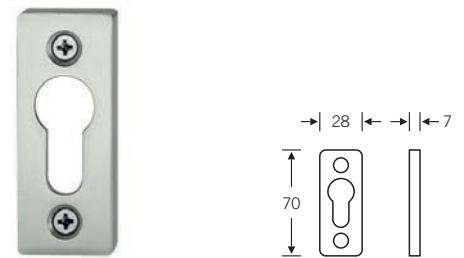
17 1752 

Screw hole distance 50 mm,
suitable for M5 countersunk screws




17 1755 

Screw hole distance 50 mm,
suitable for M5 countersunk screws

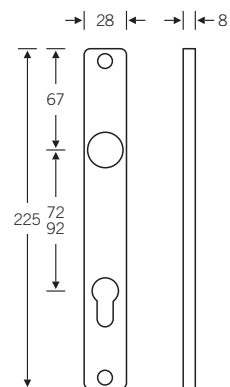


4a

14 1550 

Screw hole distance 210 mm,
suitable for M4 countersunk screws

Due to its slender shape, FSB 14 1550
can be combined with locks with a small
backset, and so appeals aesthetically and
functionally in equal measure on narrow
profiles.



fsb.de/171752
fsb.de/171755
fsb.de/141550

SSF tubular frame locks with optional
through screw connection see page 406

Sliding roses

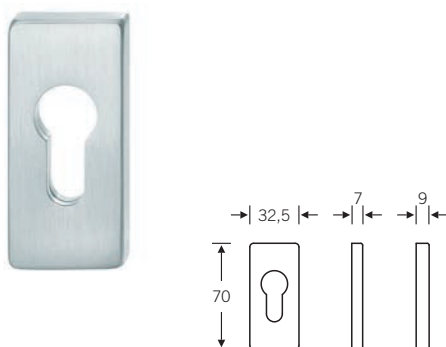
Glued-on roses

For technical information see page 268f.

17 1765 

17 1765 000 (7 mm)
17 1765 001 (9 mm)

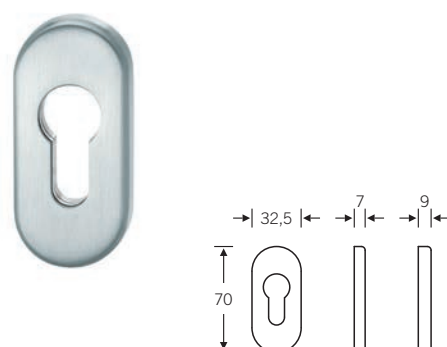
Sliding rose



17 1766 

17 1766 000 (7 mm)
17 1766 001 (9 mm)

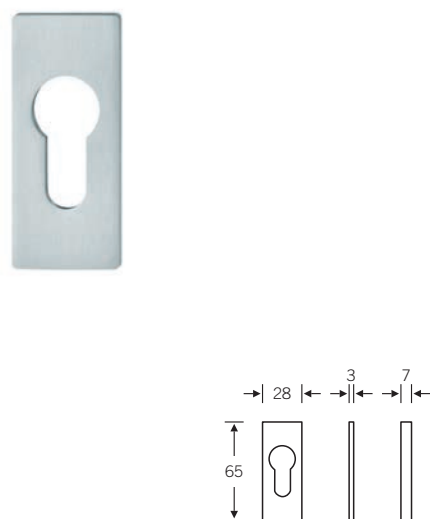
Sliding rose




17 1768 | 17 1769 

17 1768 (3 mm)
17 1769 (7 mm)

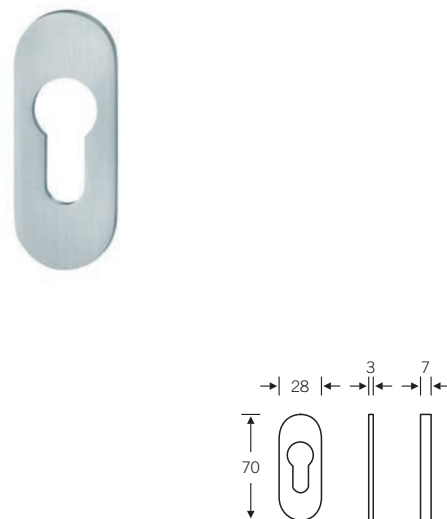
Glued-on rose



17 1729 | 17 1730 

17 1729 (3 mm)
17 1730 (7 mm)

Glued-on rose



fsb.de/171765
fsb.de/171768
fsb.de/171769

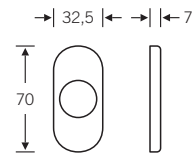
fsb.de/171766
fsb.de/171729
fsb.de/171730

Roses

for frame doors

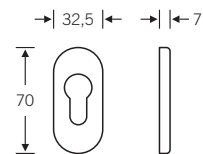
For technical information see page 268f.

17 1758 

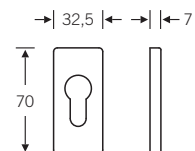


4a

17 1757 



17 1778 



fsb.de/171758
fsb.de/171757
fsb.de/171778

Screw hole distance 50 mm,
suitable for M5 countersunk screws
Fixing accessories see chapter Spindles


Door handle fitting for frame doors

For technical information see page 402f.

06 7816 





 06 7816 001 | 06 7816 002

 06 7816 018

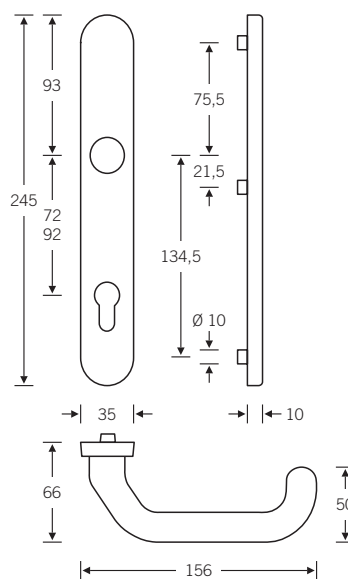
Door handles for frame doors on oval long backplate, with concealed fixing

 8 mm  hole and positive mechanism

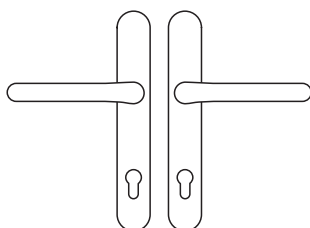
 9 mm  hole for fire and smoke safety frame door


Distance PC 72 mm + PC 92 mm

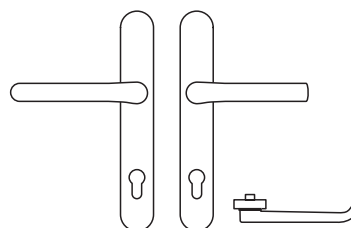
Door handle half sets order no. 06 7816 05012 (not possible in FS version)



 06 7816 001 |  06 7816 018
Door handle fitting



 06 7816 002
Balcony door handle fitting




fsb.de/067816

Order information:


- square follower (8, 9 or 10 mm)
- door thickness in mm
- distance

Entrance door fitting for frame doors


For technical information see page 402f.



06 7816 



 06 7816 013
 06 7816 019 (R) | 06 7816 020 (L)

Door handles for frame doors on oval long backplate, with concealed fixing

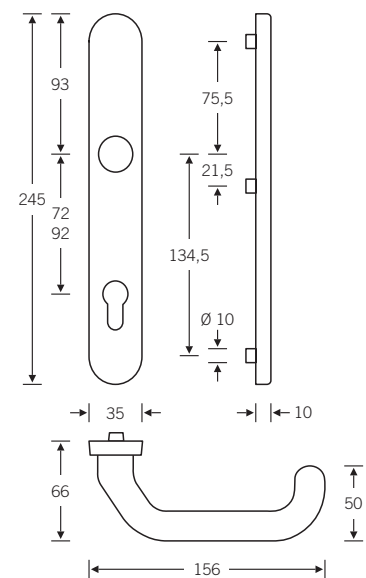
 8 mm  hole and positive mechanism


 9 mm  hole for fire and smoke safety frame door

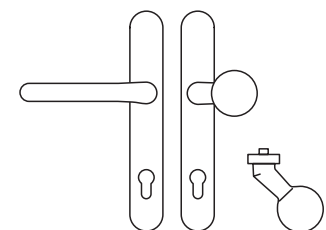
Distance PC 72 mm + PC 92 mm

Ill.: left-hand FS entrance door fitting

4a





 06 7816 013
 Combined knob and backplate fitting



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Order information:

- square follower (8, 9 or 10 mm)
- door thickness in mm
- distance
- direction ( 9 mm: knob fixed,  8 mm: knob loose)

fsb.de/catalogue

439

Door handle fitting for frame doors

For technical information see page 402f.

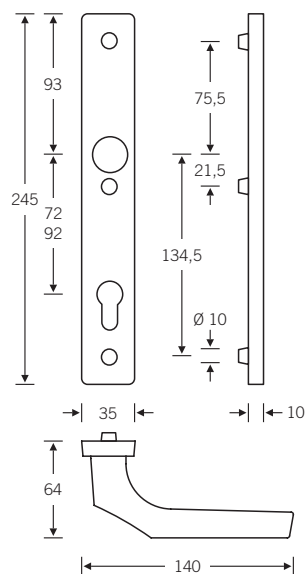
06 7820 

⇒ 06 7820 001 | 06 7820 002 |
06 7820 013

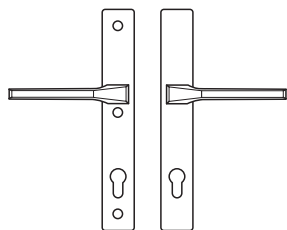
Door handle for frame doors on square
long backplate, exposed fixing on one side

8 mm  hole
Distance PC 72 mm + PC 92 mm

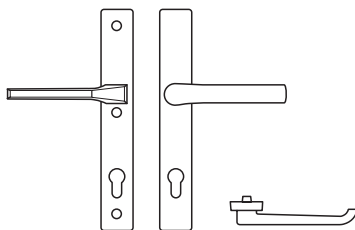
Drawing:
inside backplate



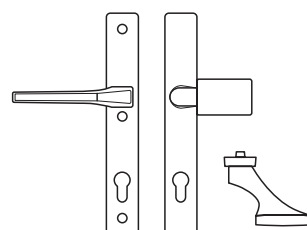
⇒ 06 7820 001
Door handle fitting



⇒ 06 7820 002
Balcony door handle fitting



⇒ 06 7820 013
Entrance door fitting



fsb.de/067820

In aluminium only available in natural
anodised finish (FSB 0105)

Order information:

- spindle thickness (8 or 10 mm)
- door thickness in mm
- distance

Handle shield fitting for frame doors

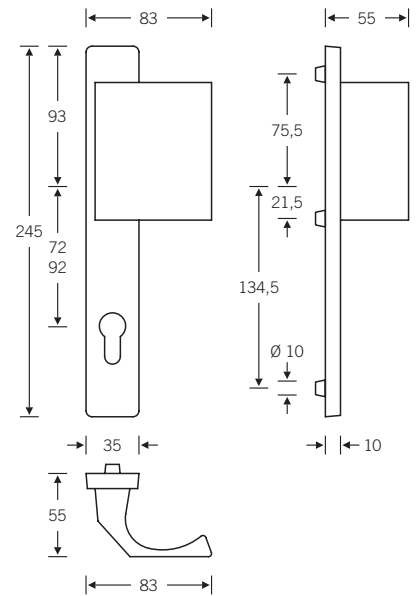
For technical information see page 402f.

06 7820 ■

☞ 06 7820 003

Handle shield fitting for frame doors on square long backplate, concealed fixing on one side

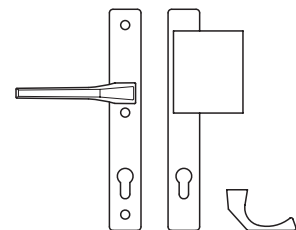
8 and 10 mm □ hole
Distance PC 72 mm + PC 92 mm



4a

☞ 06 7820 003

Handle shield fitting



fsb.de/067820

In aluminium only available in natural anodised finish (FSB 0105)


Order information:

- spindle thickness (8 or 10 mm)
- door thickness in mm
- distance


Handle fitting for frame doors

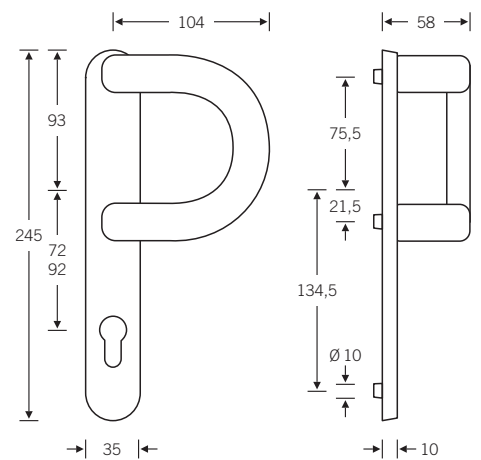
For technical information see page 402f.

06 7816 

 06 7816 009

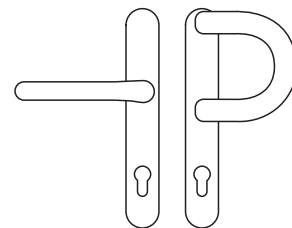
Handle backplate fitting for frame door on oval long backplate, with concealed fixing and positive mechanism

8 mm  hole
Distance PC 72 mm + PC 92 mm



 06 7816 009

Handle shield fitting



fsb.de/067816

Order information:

- spindle thickness (8 or 10 mm)
- door thickness in mm
- distance

448	Exit bars DIN EN 1125	4b
	– for solid doors	
	– for frame doors	
458	Standard exit bars	
	– for solid doors	
461	Counter fittings	



New from Brakel: FSB presents a coordinated, modular system, “Lock + fitting” for single and double-leaf solid escape and panic doors. The coherently coordinated concept consists of a pull bar according to the future type C of DIN EN 1125 (FSB 77 7982) modularly structured locking and bolting components from SSF (lock series 61/62, anti-panic functions B, D and E).

“Lock + fitting” coordinated in accordance with DIN EN 1125

With the exit bars, FSB offers an opening mechanism for doors on which a push movement is required to operate the lock or open the door, rather than the familiar rotary movement of the door handle.

By means of a horizontal bar, which stretches across at least 60 % of the door width, the actuating force is transferred by a bevel gear directly through the square spindle to the lock follower. The door can be opened by pressing on any area of the horizontal bar.

In the Federal Republic of Germany and a few other countries, these pull bars have predominantly been used on panic doors with corresponding mortice locks. On the European market, however, other hardware systems are also usual for panic doors. For example, surface-mounted versions are often used. These different views about the equipment on escape, emergency exit and panic doors have been revised by the development of European standards and been made mandatory for all EU states. For instance, the requirements of hardware systems for emergency exit locks have been defined and described in DIN EN 179, and those for panic doors in DIN EN 1125. The hardware set for panic doors consists of the blocking element (lock), blocking counterpiece (strike plate) and exit bar.

Construction Products Regulation (EU CPR)

The performance declarations, which FSB uses to document the conformity of the hardware solutions in accordance with DIN EN 179 and DIN EN 1125 with the valid EU regulations, can be found under www.fsb.de/baupvo

Pictogram labelling of corresponding versions:



New: Exit bar 77 7982

The anti-panic pull bar FSB 7982 not only boasts a unique design approach but also impresses due to the slightly upwards facing operating angle (future Type C pursuant to DIN EN 1125), which gives it a special security feature: this makes it impossible to open panic doors from outside using wires inserted under the door. This also has the advantage that there is no need for solid sealing or protection measures on the bottom of the door, which in turn opens up spaces without thresholds and hence without barriers.



Operating angle of 30°, omission of angle of rotation setting

The system's operating angle is a uniform 30° on active and inactive leaves. It ensures an optimal force ratio and interplay between the lock and fitting components; the low angle of rotation enables a quick release. Over and above this, is it not necessary to set the angle of rotation on site, which prevents errors, as incorrect settings are ruled out.

Exit bar DIN EN 1125

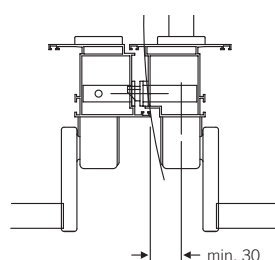
According to this standard, locks for panic doors must be used where a lot of visitors are to be expected and where not knowing about local circumstances can result in panic occurring. Besides the design requirements, extensive demands are made of the fitness for use. For instance, the panic door must be able to be opened using the hardware system, even if the door is loaded with a pressure of 1000 N on the locking system, with a force of just 220 N on the pull bar, or with a force of just 80 N without a load. This and other requirements, such as long-lasting functionality and resistance to misuse, must be proven by tests and certification of the associated system carried out by an independent test institute. The CE mark on the hardware system ensures that only tested fittings that comply with the standards are allowed to be installed.

FSB exit bars are tested up to a door weight of 200 kg.

The FSB exit bar is just a part of the panic locking system. This fitting has been adapted, tested and classified with lock systems from various reputable manufacturers.

Exit bar 77 7970

FSB continues to supply the tried and tested exit bar 77 7970 for doors that do not have to be designed in accordance with DIN EN 1125.



To prevent exit bar 77 7970 or 77 7980 from catching the frame when opening the door, a distance of at least 30 mm is necessary between the frame and middle of the fitting. Please bear this in mind when selecting the profile and door construction.

DIN EN 1125: Consistent FSB quality

Lock and fitting from one source



With the publication of this manual, FSB presents a new, coordinated modular system, “Lock + Fitting” for single and double-leaf escape and panic doors (solid). Some time ago, we introduced an extensive range of mortice locks, thus starting to unite what once used to belong together: In the pre-industrial age, locks and fittings formed a single unit.

During the course of industrialisation, both components became independent parts – and what now divided them was regulated by industrial standards. Together with our subsidiary, Sächsische Schlossfabrik SSF, we have brought the strategy of the functional and technical unit of lock and fitting back to life and are presenting the market with a newly developed system for single and double-leaf solid panic doors with and without top locking mechanism on the active leaf.

The technically and functionally coordinated concept of lock and fitting consists of a pull bar according to the future Type C of DIN EN 1125 (model no. 7982, lifting upwards, see Page 449ff.) and modularly structured locking and bolting components (SSF lock series 61/62, anti-panic functions B, D and E).

Both solutions come with a host of special functions:

Key-operated quick-release lock:

If the key is turned in the lock direction, this releases a locking lever in the lock, which promptly leads to a deadbolt being automatically thrown 20 mm. The benefits, besides the convenience aspect of not having to complete two full locking turns by hand, are clear to see: there is no risk from locking by hand of bringing the locking cam of the cylinder into a position that blocks other lock functions – the so-called free-running function.

Four-point checking query

Furthermore, the anti-panic locks in the 61/62 series enable the bolt, the top locking mechanism and the latch as well as the handle's connection to be queried using electronic switch contacts.

Anti-blockade function:

Hazardous manipulations of anti-panic doors, such as blocking the door handle on the outside – which is common practice in schools – are effectively prevented by the so-called anti-blockade function. The panic function on the inside is therefore guaranteed at all times.

Flexible screw-on faceplates

For the fitter, the modular lock series offers the benefit that SSF can soon react to changing dimensions thanks to a screw-on faceplate.

“Lock and fitting” – refined down to the last detail

One can see what focus was used to work on this lock series from the intelligent, fine details. The above-mentioned free-running function as a basic feature is accompanied by a split follower (anti-panic function B, D), which is mechanically coupled, a plastic-coated latch with convenient whisper-quiet feature, plus an independent spring support on both sides of the door handle by means of the lock follower, which guarantees a permanent 0° position of the door handle.

In addition, no attachment is needed for the top locking mechanism, which means it needs no extra milling groove in the mortices. What is more, the faceplate length on locks with or without top locking mechanism is identical.



A summary of the panic-lock functions B, D and E:

B – Change-over function, for locks with semi-automatic locking mechanism (outer side with handle). It is used on doors that must enable a passageway from outside sometimes.

D – Transit function, for locks with manual locking mechanism (outer side with handle). It is used on doors that must enable a passageway from outside when unobstructed.

E – Reversible function, for locks with manual locking mechanism (outer side with knob). It is used on doors where unauthorised opening from outside must be prevented as a matter of principle.

The anti-panic pull bar from FSB not only boasts a unique design approach but also impresses due to the slightly upwards facing operating angle (future Type C pursuant to DIN EN 1125), which gives it a special security feature: this makes it impossible to open panic doors from outside using pulling elements inserted under the door.

This also has the advantage that there is no need for solid sealing or protection measures on the bottom of the door, which in turn opens up spaces without thresholds and hence without barriers.

Operating angle of 30°, omission of angle of rotation setting

The system's operating angle is a uniform 30° on active and inactive leaves. It ensures an optimal force ratio and interplay between the lock and fitting components; the low angle of rotation enables a quick release. Over and above this, is it not necessary to set the angle of rotation on site, which prevents errors, as incorrect settings are ruled out. The bolt thrower on the strike box can be set on site in each case to the existing gap of 2 to 6 mm between the active and inactive leaf. On top of this, the new anti-panic pull bar pursuant to DIN EN 1125 can be combined with short backplates and nearly all the handles from our range.

All roses, short and long backplates in the DIN EN 179 design can be combined with the 1 or 2-leaf SSF panic lock.

In addition, SSF offers various other types of locks which represent the ideal complement to our door fittings, see Page 20ff. The SSF range includes mortice locks for:

- interior doors,
- tubular frame doors,
- flat entrance doors,
- house doors
- doors for large buildings,
- fire safety and emergency exit doors
- as well as special locks, strike plates and accessories

You will find detailed information in the current SSF catalogue and the brochure on the anti-panic locks in the 61/62 series, which you can get from FSB or directly in Saxony.

SSF – Sächsische Schlossfabrik GmbH
Am Pappelhain 10
04539 Groitzsch, Germany
Phone +49 34296 733-00
Fax +49 34296 733-11
or on the Internet: www.ssf.de | info@ssf.de

Exit bar

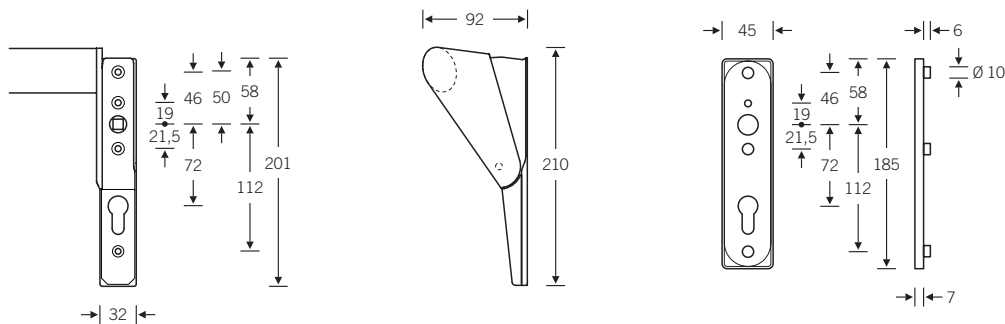
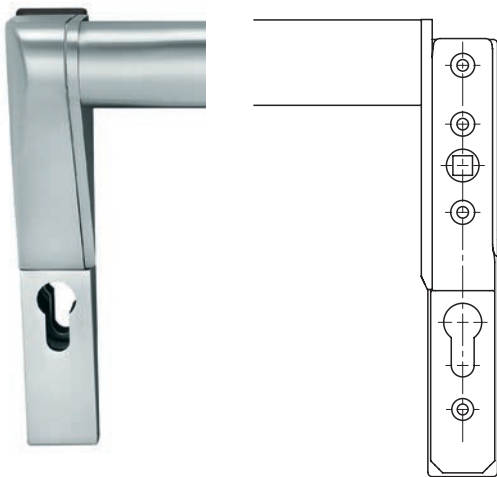
DIN EN 1125

For technical information see page 447

77 7982 ■



The anti-panic pull bar from FSB boasts a unique design approach and a slightly upwards facing operating angle (future Type C pursuant to DIN EN 1125). This provides the following security feature: opening panic doors from outside using pulling elements inserted under the door is almost impossible. This also means that there is no need for solid sealing or protection measures on the bottom of the door, which in turn opens up spaces without thresholds and hence without barriers.



Size and connection dimensions for exit bars PC 72 mm

Solid door exit bar for active leafs, PC 72 mm

For technical information see page 447

77 7982 ■



Fig. right

Exit bar
for active leaf in fire safety design,
for solid doors

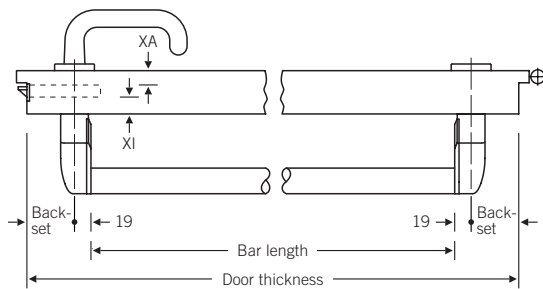
Spacing PC 72 mm

suitable for locks:

SSF, Series 61, $\alpha = 30^\circ$

🔒 77 7982 01 (fitting on right)

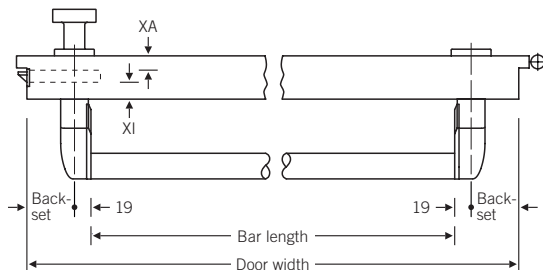
🔒 77 7982 02 (fitting on left)



How to determine bar length: Ordering details:

Door width
– 2 × backset
– 38 mm
= Bar length

Surface
Door thickness
Door width
Backset
Dimension XI
Dimension XA
Direction (see fig. page 452)



Ordering details:

Surface
Door thickness
Door width
Backset
Direction (see fig. page 452)

fsb.de/777982

Locks not included in delivery
Counter fittings see page 461

Test in accordance with DIN EN 179 and
DIN EN 1125 in preparation, we reserve
the right to make changes

fsb.de/catalogue

Solid door exit bar for inactive leaf

For technical information see page 447

77 7982 ■

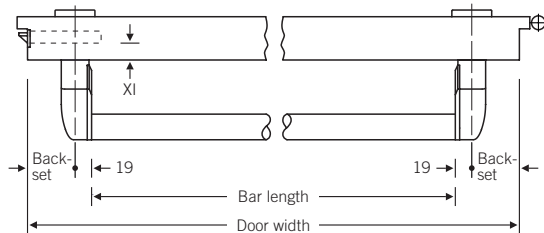


Fig. right

Exit bar
for inactive leaf in fire safety design,
for solid doors

suitable for locks:

- SSF, Serie 62, $\alpha = 30^\circ$
- 🔑 77 7982 03 (fitting on right)
- 🔑 77 7982 04 (fitting on left)

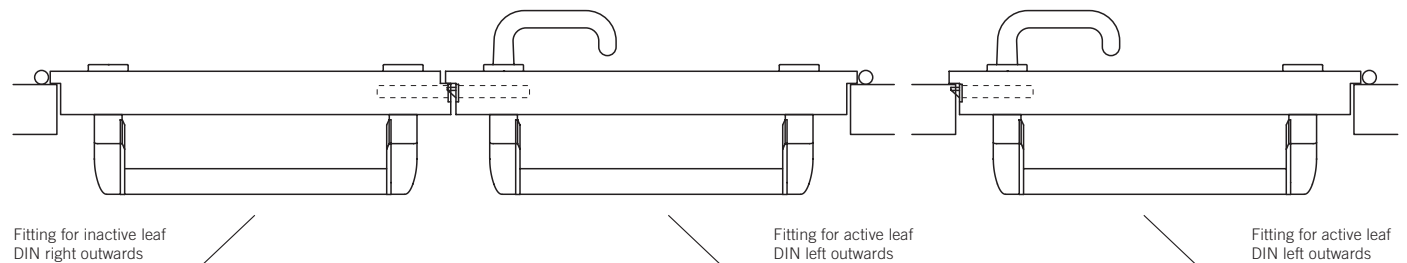


Define bar length:

- Door width
- twice the backset
- 38 mm
- = Bar length

Order information:

- Surface
- Door thickness
- Door width
- Backset
- Dimension XI
- Direction (see below)



fsb.de/777982

Locks not included in delivery
Counter fittings see page 461

Test in accordance with DIN EN 179 and
DIN EN 1125 in preparation, we reserve
the right to make changes

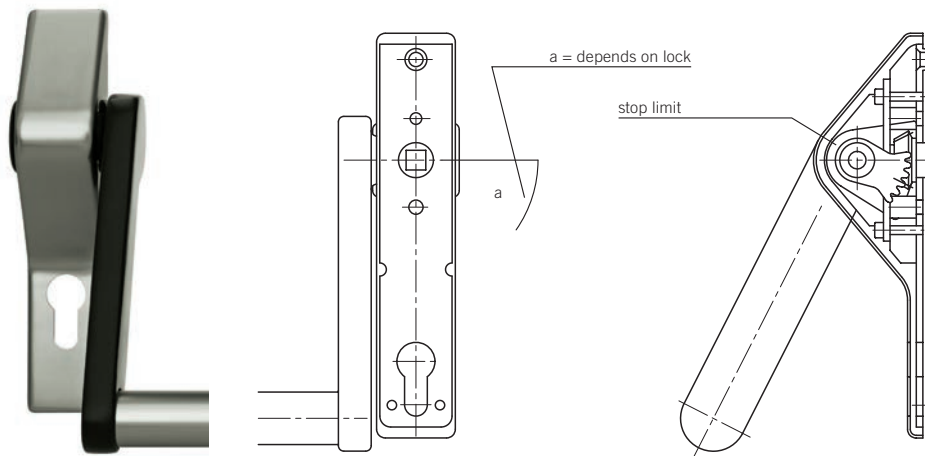
Exit bar

DIN EN 1125

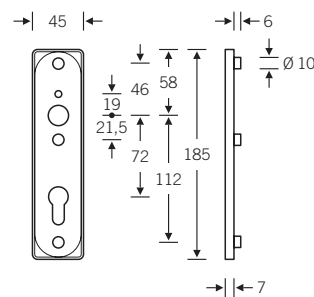
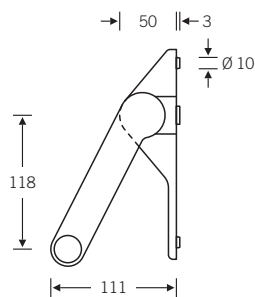
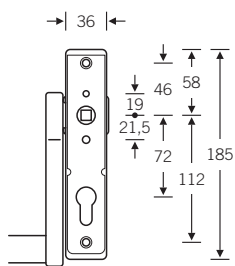
For technical information see page 447

77 7980 

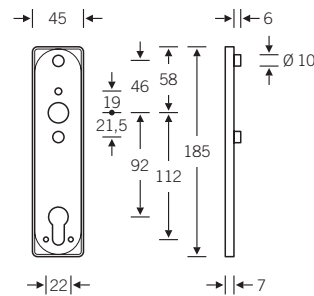
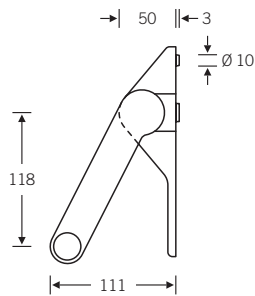
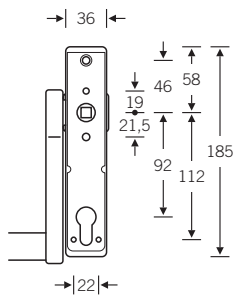
The rotary movement required to activate the lock follower is achieved by the interplay between the bevel gear and square when pressing on the horizontal bar. A dead stop is installed in order to intercept the necessary test forces. A spring ensures that the exit bar returns to the starting position after activation.



4b



Size and connection dimensions for exit bars PC 72 mm



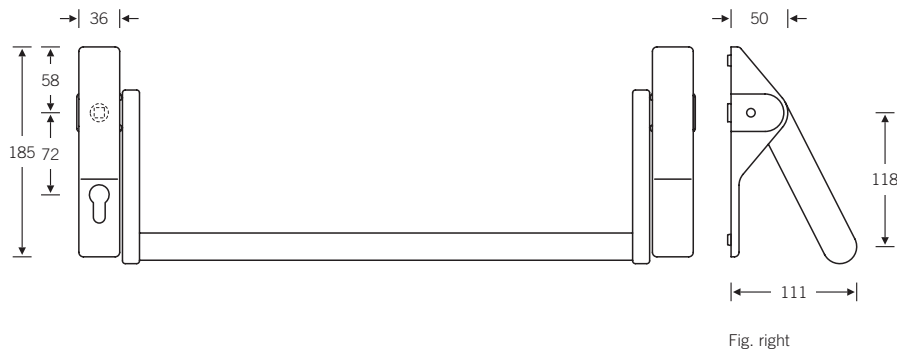
Size and connection dimensions for exit bars PC 92 mm

fsb.de/777980

Solid door exit bar for active leaf, PC 72 mm

For technical information see page 447

77 7980 





Exit bar
for active leaf in fire safety design,
design predestined for solid doors

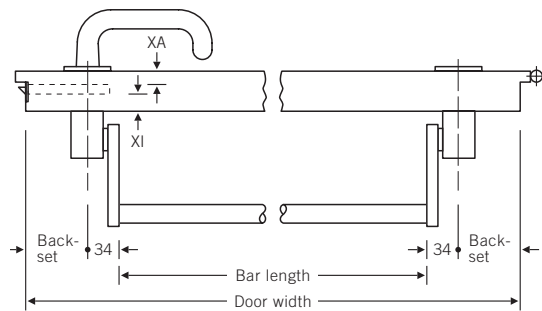
Spacing PC 72 mm

suitable for locks:

BMH, $\alpha = 30^\circ$

 77 7980 01110 (fitting on right)

 77 7980 02110 (fitting on left)



Define bar length:

Door width
– twice the backset
– 68 mm

= Bar length
(tested to max.
1,150 mm)

Order information:

Material/finish
Door thickness
Door width
Backset
Dimension XI
Dimension XA
Direction (see fig. page 455)



Order information:

Material/finish
Door thickness
Door width
Backset
Direction (see fig. page 455)

fsb.de/777980

Locks not included in delivery
Pull side fittings see page 461

Solid door exit bar for inactive leaf


For technical information see page 447

77 7980 

Exit bar
for inactive leaf in fire safety design,
design predestined for solid doors

suitable for locks:

BMH, $\alpha = 45^\circ$

 77 7980 03400 (fitting on right)


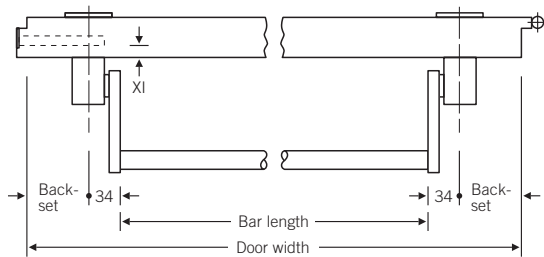
 77 7980 04400 (fitting on left)



Fig. right

4b



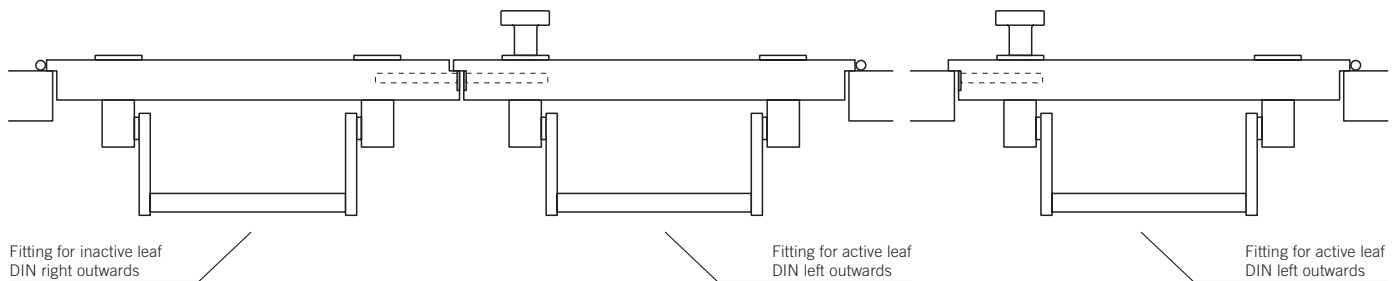
Define bar length:

Door width
– twice the backset
– 68 mm

= Bar length
(tested to max.
1,150 mm)

Order information:

Material/finish
Door thickness
Door width
Backset
Dimension XI
Direction (see below)



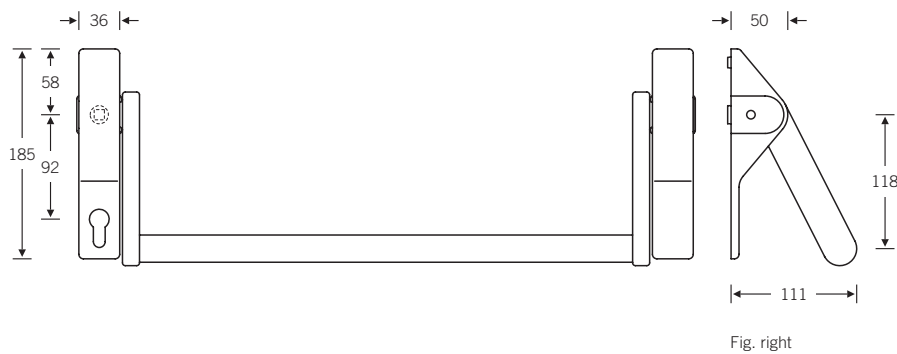
fsb.de/777980

Locks not included in delivery
Pull side fittings see page 461

Frame door exit bar for active leaf, PC 92 mm

For technical information see page 447

77 7980 





Exit bar
for active leaf in fire safety design,
design predestined for frame doors

Spacing PC 92 mm

suitable for locks:


SSF + Wilka + Fuhr*, a = 30°


 77 7980 01112 (fitting on right)

 77 7980 02112 (fitting on left)


* Multisafe 833, 834P, 870 and 881


Winkhaus, type STV AP3, a = 45°

 77 7980 01412 (fitting on right)

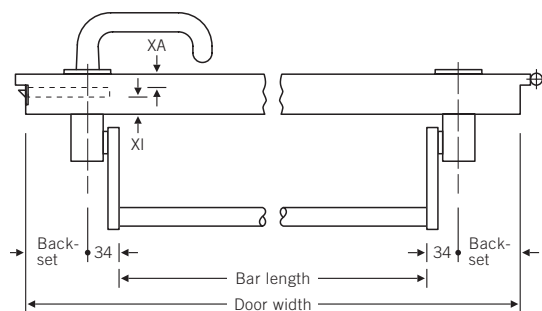
 77 7980 02412 (fitting on left)

Winkhaus, type AP, a = 47°

 77 7980 01512 (fitting on right)

 77 7980 02512 (fitting on left)

GEZE
IQ Lock



Define bar length:

Door width
– twice the backset
– 68 mm

= Bar length
(tested to max.
1,150 mm)

Order information:

Material/finish
Door thickness
Door width
Backset
Dimension XI
Dimension XA
Direction (see fig. page 457)



Order information:

Material/finish
Door thickness
Door width
Backset
Direction (see fig. page 457)

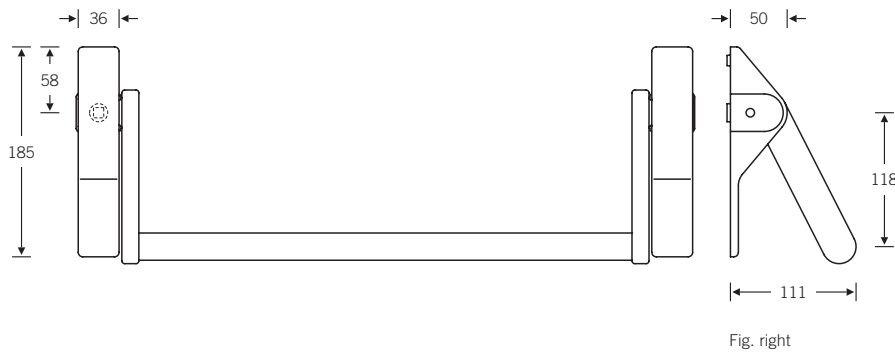
fsb.de/777980

Locks not included in delivery
Pull side fittings see page 461

Frame door exit bar for inactive leaf



For technical information see page 447



77 7980 





Exit bar
for inactive leaf in fire safety design,
design predestined for frame doors

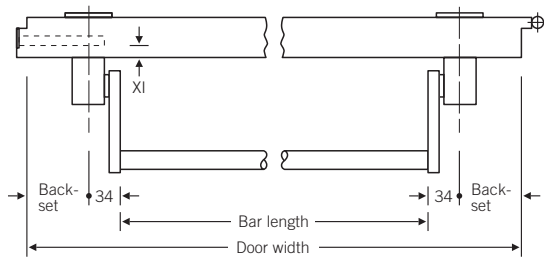
suitable for locks:

Wilka, $a = 40^\circ$
 77 7980 03301 (fitting on right)
 77 7980 04301 (fitting on left)

Winkhaus STV AP3, $a = 45^\circ$
 77 7980 03400 (fitting on right)
 77 7980 04400 (fitting on left)

Fuhr Multisafe 833, 834P, $a = 40^\circ$
 77 7980 03301 (fitting on right)
 77 7980 04301 (fitting on left)

4b



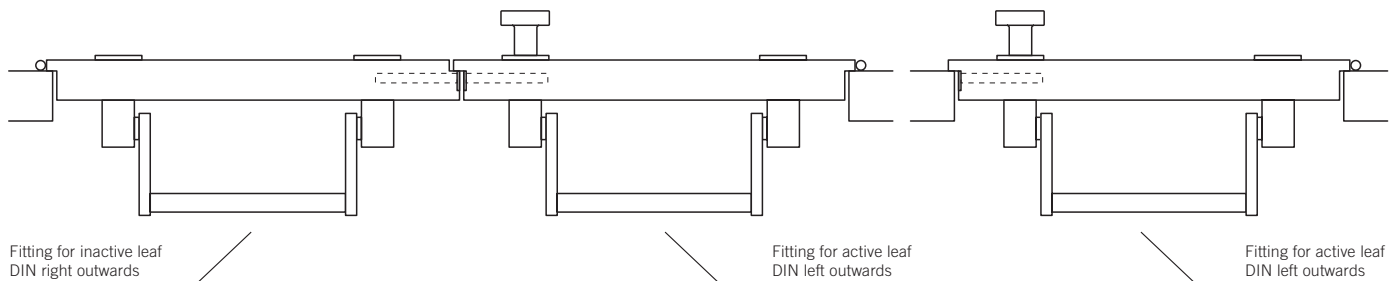
Define bar length:

Door width
 – twice the backset
 – 68 mm

= Bar length
 (tested to max.
 1,150 mm)

Order information:

Material/finish
 Door thickness
 Door width
 Backset
 Dimension XI
 Direction (see below)



fsb.de/777980

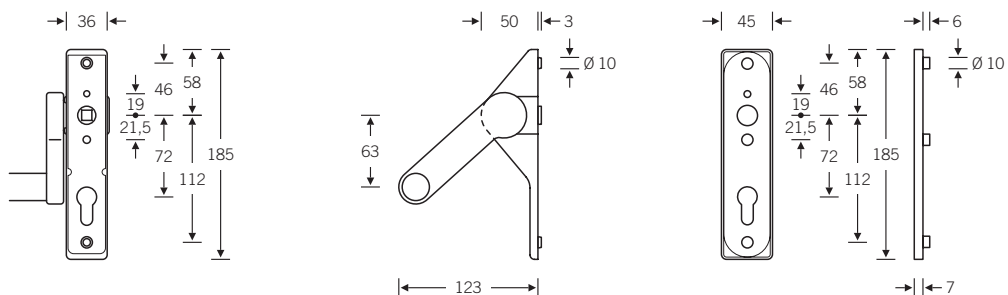
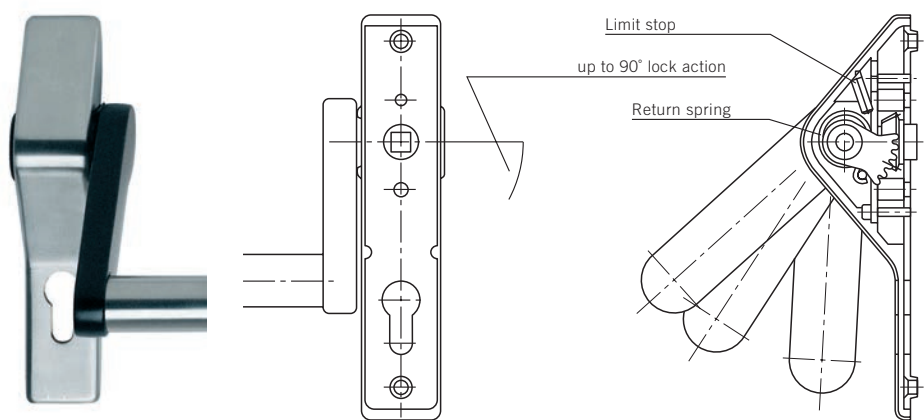
Locks not included in delivery
 Pull side fittings see page 461

Exit bar Standard

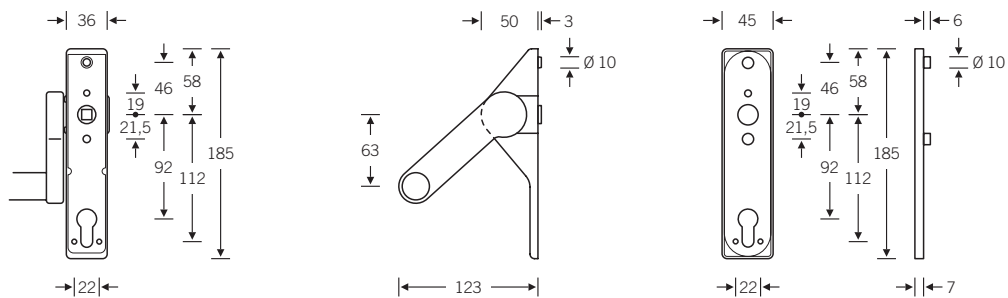
For technical information see page 447

77 7970 

The turning movement required to activate the lock follower is achieved by the interplay between the bevel gear and square when pressing on the horizontal bar. A limit stop to protect the lock follower can be set according to the angle of actuation on installation. A strong spring ensures that the exit bar returns to the starting position after activation.



Size and connection dimensions for exit bars PC 72 mm



Size and connection dimensions for exit bars PC 92 mm

fsb.de/777970

Locks not included in delivery
Pull side fittings see page 461

Solid door exit bar for active leaf

For technical information see page 447

77 7970

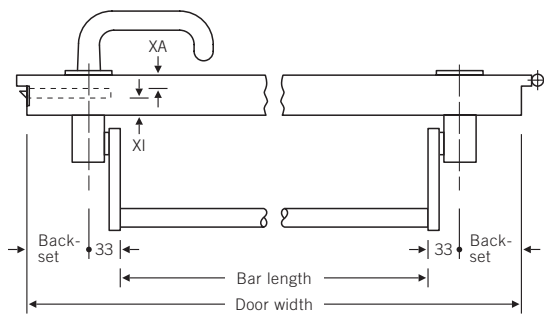
Exit bar for active leaf

- 77 7970 00110 (PC 72 mm)
- 77 7970 00112 (PC 92 mm)



Fig. right

4b



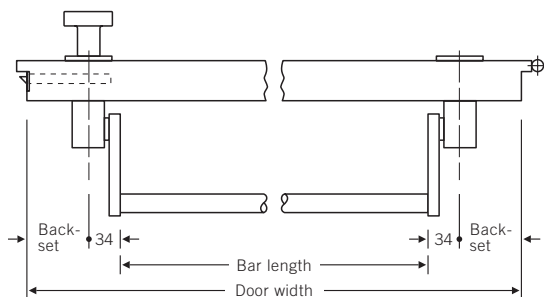
Define bar length:

Door width
– twice the backset
– 66 mm

= Bar length

Order information:

Material/finish
Door thickness
Door width
Backset
Dimension XI
Dimension XA



Order information:

Material/finish
Door thickness
Door width
Backset
Dimension XI

fsb.de/777970



Locks not included in delivery
Pull side fittings see page 461

Solid door exit bar for inactive leaf

For technical information see page 447

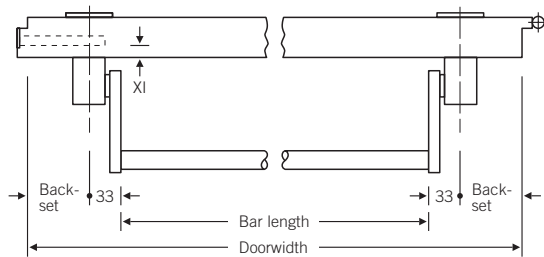
77 7970 

Exit bar for inactive leaf

-  77 7970 00200*
-  77 7970 00201**

Screw points:

- * analogous PC 72 mm
- ** analogous PC 92 mm

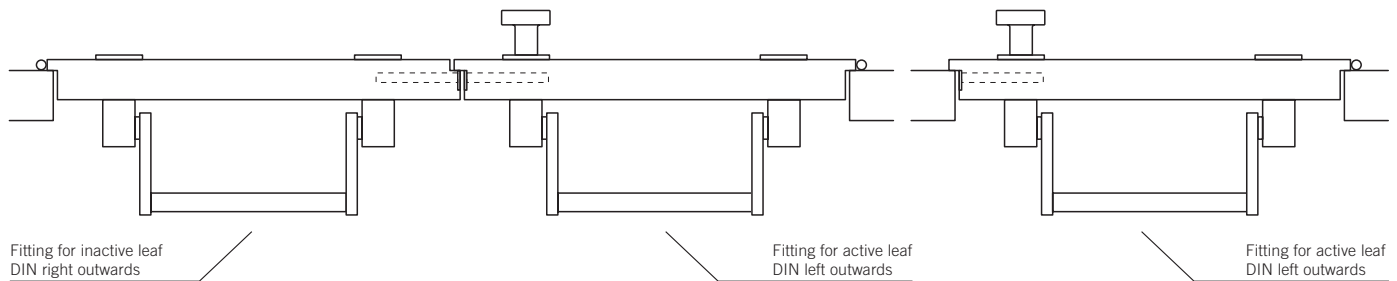


Define bar length:

Door width
– twice the backset
– 66 mm
= Bar length

Order information:

Material/finish
Door thickness
Door width
Backset
Dimension XI

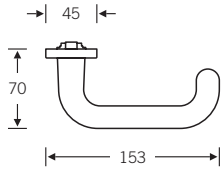


fsb.de/777970

Locks not included in delivery
Pull side fittings see page 461

Pull side fittings

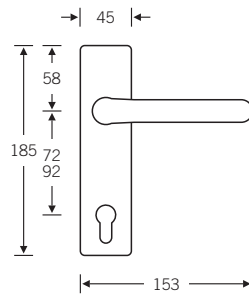
Possible combinations for the outside of the door. FSB supplies as standard door handle design 1146 or knob 08 0829.



77 7971

- 77 7971 00010 (PC 72)
- 77 7971 00012 (PC 92)

Door handle counterplate with concealed attachment in fire safety design

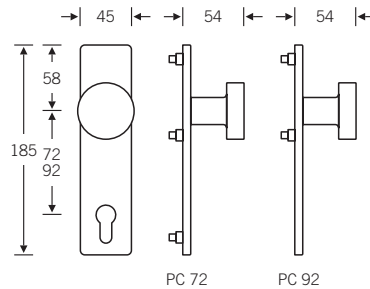


77 7972

- 77 7972 00110 (PC 72)
- 77 7972 00112 (PC 92)

4b

Knob counterplate with fixed knob with concealed attachment in fire safety design

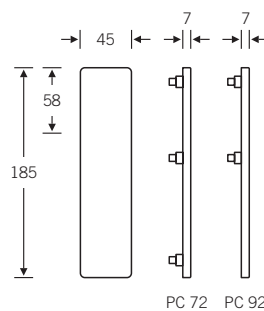


77 7973

- 77 7973 00000*
- 77 7973 00001**

Blank plate with concealed attachment in fire safety design

Screw points:
* analogous PC 72 mm
** analogous PC 92 mm



PC 72 suitable for locks from SSF and BMH

PC 92 suitable for locks from GEZE, Fuhr, SSF, Wilka and Winkhaus

fsb.de/777971
fsb.de/777972
fsb.de/777973

468	Glass door fittings	4c
474	Glass door hinges	
476	Glass door knobs	
478	Inset handles for glass doors	
479	Glass door pull	
479	Glass door stop	

Overview

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Pages 468, 469



13 4228 ■ ■
Page 474



13 4220 ■ ■
Pages 470, 471



13 4223 ■ ■
Pages 472, 473



13 4227 ■ ■
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36 3688 ■ ■
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23 0802 ■ ■ ■ ■
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23 0828 ■ ■
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23 0829 ■ ■ ■ ■
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23 0844 ■ ■
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13 4230 ■
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13 4256 ■
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13 4256 ■
Page 478





4c

Glass has always had a multi-layered role in architecture as a design tool and shape-giving material. Glass doors take the interior architecture into account, whether dealing with commercial buildings, sophisticated interior design or residential construction. As part of renovation and modernisation work, glass doors allow statements to be made; sliding glass doors also ensure space is used efficiently.

Fittings for glass doors



Glass has always had a multi-layered role in architecture as a design tool and shape-giving material. Glass doors take the interior architectural shape into account.

They create more light, link rooms, and radiate a wonderful atmosphere. The transparency of glass doors requires a particularly high level of care when choosing the fittings. The lock area, handle and hinges are what give a glass door its look.

isis® access management

Glass door fittings with the electronic access management function (isis® systems M100, M300 and T300) also match the consistent design of the FSB handle ranges in terms of shape and materials. What makes these fittings so innovative and unique on the market is that they can also be fitted to all-glass doors with digital access management function that operates on a number of buildings, so these concepts are no longer limited to active or inactive leaf doors. You will find detailed information about this on page 45f.

There is also the option to fit the locks of the glass door fittings of series 13 4220 and 13 4223 with an anti-panic function (APD) in combination with isis® sets – please specify when ordering.

Glass door fittings matched to system profiles

With this in mind, we would like to point out one particular solution for a glass door fitting that FSB developed in collaboration with Ingenhoven Architekten. This fitting concept is notable for the absence of any handle roses (including on the heavy-duty version) and for the extremely discreet dimensions, but no less importantly for the fact that when DIN frames are used, flush installation makes it absolutely appealing on every level. A number of additional components by Gira (installation system for ITS 30 partition systems), Mabeg (Comform orientation system) and Inotec (escape route lighting system ITS 30) are available that match the proportions of the glass door fittings. Please contact the manufacturers for full product information.

Nor should we forget the particularly charming detail of the glass door fittings of series 13 4224: the dividing line on door handle 1078 is congruent with the edge of the glass door fitting.

If required, colour also comes into play: matching profiles in a RAL colour, the glass door fitting and matching door handle fitting can also be powder-coated in line with the RAL colour chart. Over and above this, fittings from series 13 4220/13 4223 can be equipped with and without rose/door handle fittings, thus enabling door handle fittings to be used with AGL® heavy-duty bearings for heavy or large glass doors.

Hinges to match the glass door fittings are the perfect complement to the FSB programme. All of the fittings in this chapter can be combined with almost any of the door handles in the FSB programme.





Construction on existing buildings: sliding doors!

In existing buildings, particularly those built in the post-war period, rooms were often dimensioned taking functional and budget aspects into account. Such configurations are rarely contemporary by today's standards, meaning that efforts to modernise such buildings sometimes place particular challenges on planners and builders.



Space efficiency through sliding doors

This applies in particular if areas cannot easily be made bigger for structural or budget reasons or because of the floor plan. In this respect, sliding doors are not only ideal for opening up small spaces but also for generally increasing space efficiency: the area that is normally "covered" by conventional doors can be used efficiently and for other purposes. In the context of DIN EN 18 040, it should therefore be mentioned that you can make considerations about space easier with regard to the use of a wheelchair or Zimmer Frame as well as reduce the risk of a door being blocked by person lying on the floor in case of emergency.

With a line of stand-alone recess pulls for solid doors in various forms with open or spring-loaded closed handle through to versions with matching lock including bolt for bathroom and WC doors, FSB already took this requirement from the residential building and sophisticated interior design sector into account some time ago (see page 366f.). In the meantime, this comprehensive product line has been extended by adding solutions corresponding to the shape and materials of solid door recess pulls for glass doors too. These recess pulls, which are very easily fitted into glass cut-outs of 70 mm diameter by means of a clever screw-in or clamping solution, completely make do without adhesive or similar aids and are easy for craftsmen and door specialists to handle. The pulls are available in versions for glass thicknesses of 8, 10 and 12 mm. You will find these pulls on page 478.



13 4224

☞ 13 4224 042 (R) | 13 4224 052 (L)

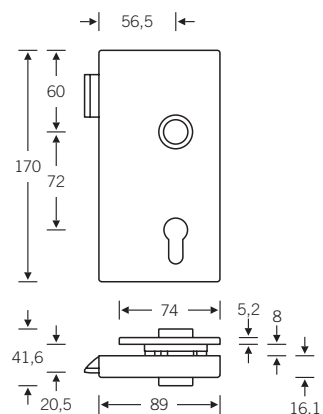
Glass door fitting rectangular, compact, with cover plates, with heavy-duty glass lock (DIN 18251-1, class 4)

PC 72 mm, 8 mm steel clamp nut with a polyamide bearing ring

Latch made from a plastic/die casting combination, low-noise

Bolt head made of bright nickel-plated casting. Door handle heavy-duty bearing in aluminium/stainless steel, Teflon-coated, to match FSB door handles

Illustration: DIN right



Lock case compact for double-leaf doors

For technical information see page 480f.



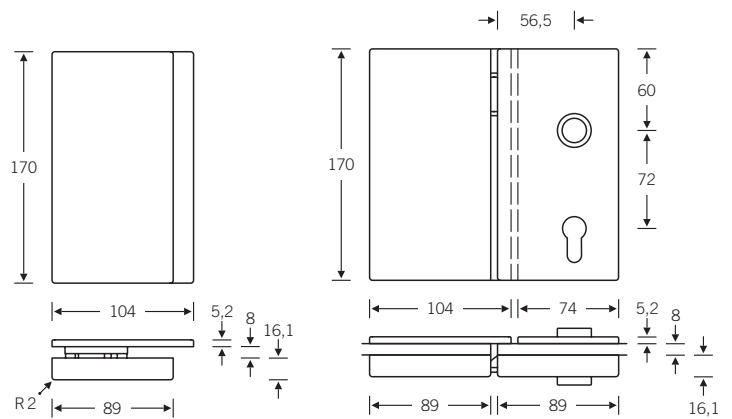
13 4224 

↻ 13 4224 045 (R) | 13 4224 055 (L)

Lock case rectangular, compact,
to match glass door fitting
13 4224 042 (R) | 13 4224 052 (L)

Illustration: DIN left

4c



fsb.de/134224

Please state direction with order



13 4220

↻ 13 4220 041 (R) | 13 4220 051 (L)
 ↻ 13 4220 042 (R) | 13 4220 052 (L)

Glass door fitting rectangular, with cover plates, with heavy-duty glass door lock (DIN 18 251-1, based on class 4)

PC 72 mm, 8 mm steel clamp nut with a polyamide bearing ring

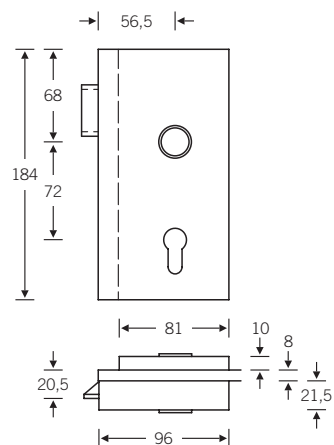
Latch made from a plastic/die casting combination, low-noise

13 4220 041 (R) | 13 4220 051 (L)
 PC-ready, bolt head made of bright nickel-plated casting, door handle bushing made of glass fibre reinforced polyamide, suitable for FSB door handle

13 4220 042 (R) | 13 4220 052 (L)
 PC-ready with switch, bolt head made of bright nickel-plated casting, prepared for the installation of standard rose sets and FSB heavy-duty fittings with AGL® bearing in rose version

Also available as an isis® version (see page 45f.) and with self-locking anti-panic lock

Illustration: DIN right



Lock case for double-leaf doors

For technical information see page 480f.



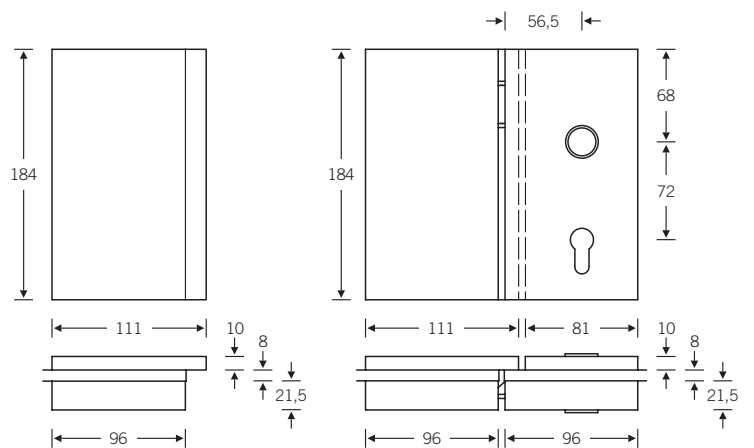
13 4220

↻ 13 4220 045 (R) | 13 4220 055 (L)


Lock case rectangular,
to match glass door fittings
13 4220 041 (R) | 13 4220 051 (L)
13 4220 042 (R) | 13 4220 052 (L)

Illustration: DIN left

4c





13 4223 

⌋ 13 4223 041 (R) | 13 4223 051 (L)
⌋ 13 4223 042 (R) | 13 4223 052 (L)

Glass door fitting rectangular, rounded, with cover plates, with heavy-duty glass lock (DIN 18 251-1, based on class 4)

PC 72 mm, 8 mm steel clamp nut with a polyamide bearing ring

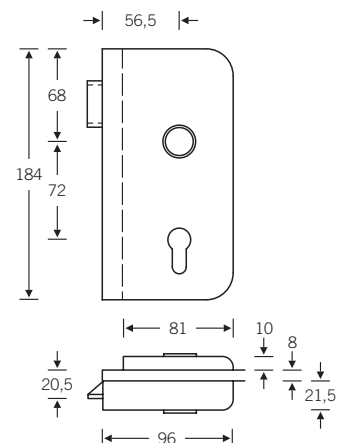
Latch made from a plastic/die casting combination, low-noise

13 4223 041 (R) | 13 4223 051 (L)
PC-ready, bolt head made of bright nickel-plated casting, door handle bushing made of glass fibre reinforced polyamide, suitable for FSB door handle

13 4223 042 (R) | 13 4223 052 (L)
PC-ready with switch, bolt head made of bright nickel-plated casting, prepared for the installation of standard rose sets and FSB heavy-duty fittings with AGL® bearing in rose version

Also available as an isis® version (see page 45f.) and with self-locking anti-panic lock


Illustration: DIN right



Lock case for double-leaf doors

For technical information see page 480f.



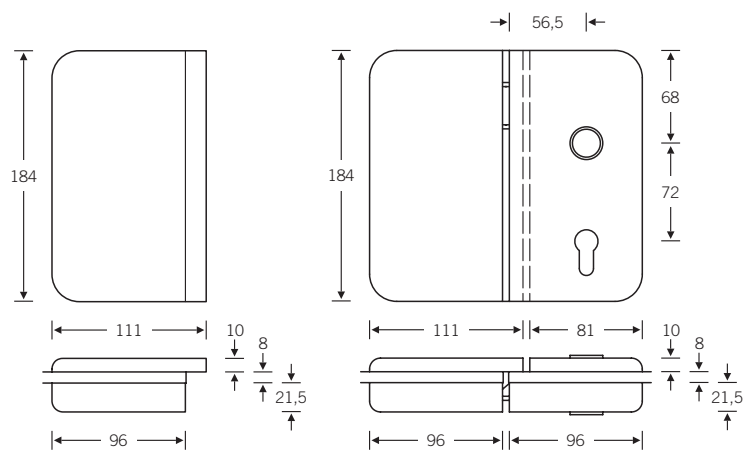
13 4223 

↻ 13 4223 045 (R) | 13 4223 055 (L)

Lock case rectangular, rounded,
to match the glass door fittings
13 4223 041 (R) | 13 4223 051 (L)
13 4223 042 (R) | 13 4223 052 (L)

Illustration: DIN left


4c



Glass door hinge rectangular

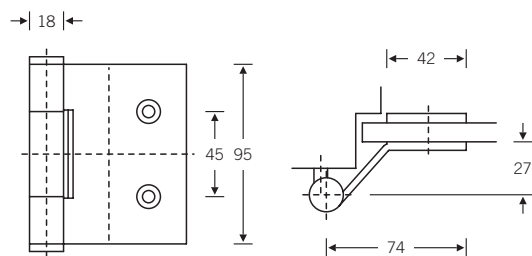
For technical information see page 480f.



13 4228 

➡ VARIANT glass door hinge made of chrome-plated matt steel to match FSB finish aluminium 0105 or stainless steel, with hinge connection

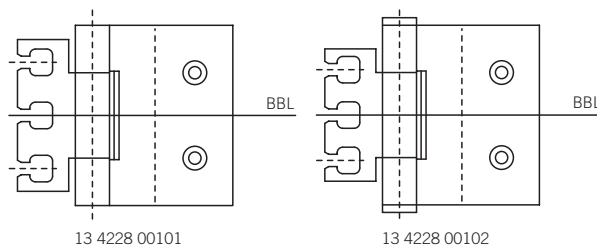
to match glass door fittings of the series 13 4220 and 13 4224



VARIANT heavy-duty hinge

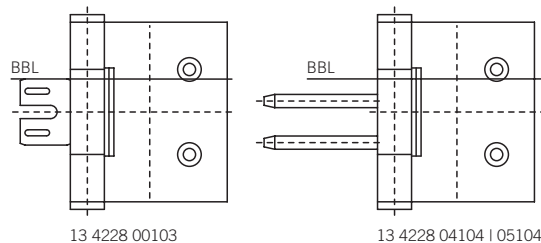
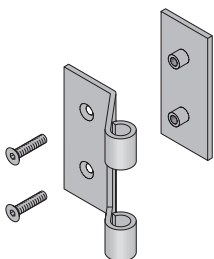
13 4228 00101 for glass doors on rebated wood, steel or aluminium frames

13 4228 00102 for glass doors on rebated steel frames



13 4228 00103 for glass doors on rebated steel frames

13 4228 04104 (R) | 13 4228 05104 (L) for glass doors on rebated wooden wrap-around and block frames



fsb.de/134228

Loading capacity:

60 kg, 2 hinges
90 kg, 3 hinges

Glass door hinges prepared at the factory for glass thicknesses 8 and 10 mm

Further technical information on page 484f.

Glass door hinge round

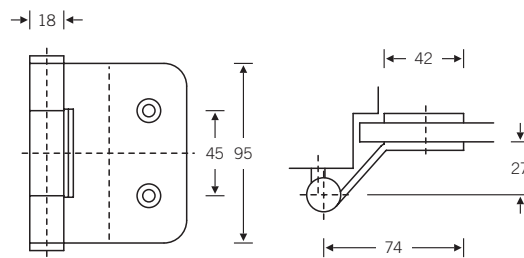
For technical information see page 480f.



13 4227

➞ VARIANT glass door hinge made of chrome-plated matt steel to match FSB finish aluminium 0105 or stainless steel, with hinge connection

to match glass door fittings of series 13 4223

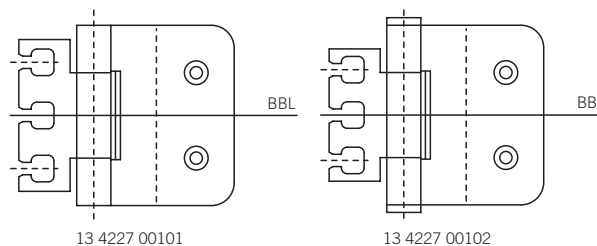


4c

VARIANT heavy-duty hinge

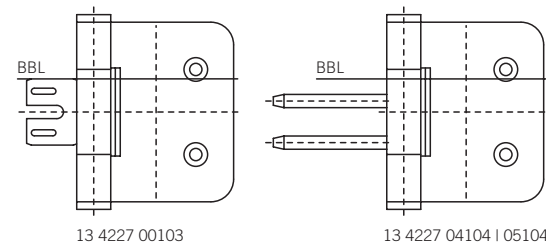
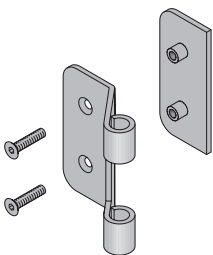
13 4228 00101 for glass doors on rebated wood, steel or aluminium frames

13 4228 00102 for glass doors on rebated steel frames



13 4227 00103 for glass doors on rebated steel frames

13 4227 04104 (R) | 13 4227 05104 (L) for glass doors on rebated wooden wrap-around and block frames



fsb.de/134227

Loading capacity:

60 kg, 2 hinges
90 kg, 3 hinges

Glass door hinges prepared at the factory for glass thickness 8 and 10 mm

Further technical information on page 484f.

Door knobs for glass doors

For technical information see page 480f.

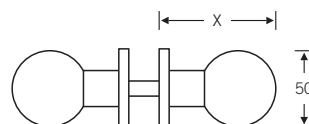



23 0802 

23 0802 00007

Aluminium	X = 77 mm
Stainless steel	X = 73 mm
Bronze	X = 72 mm
Brass	X = 72 mm

Drill Ø 13 mm

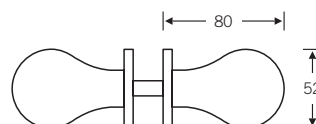


23 0844 

23 0844 00007

Design: Jasper Morrison

Drill Ø 13 mm



fsb.de/230802
fsb.de/230844

Fixed knobs

Fixed door knobs are usually mounted directly on glass doors. A lock is not used. The door knobs are connected by an 8 mm square spindle (for two drill holes) when they are mounted.

Door knobs for glass doors

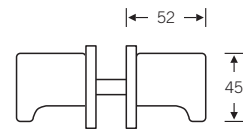
For technical information see page 480f.



23 0828

23 0828 00007

Drill Ø 13 mm



4c

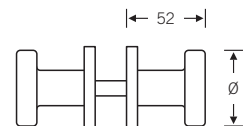


23 0829

23 0829 00007

Aluminium Ø = 50 mm
Stainless steel Ø = 55 mm
Bronze Ø = 50 mm

Drill Ø 13 mm



fsb.de/230828
fsb.de/230829

Fixed knobs

Fixed door knobs are usually mounted directly on glass doors. A lock is not used. The door knobs are connected by an 8 mm square spindle (for two drill holes) when they are mounted.

Inset handles for glass doors

For technical information see page 480f.



13 4256

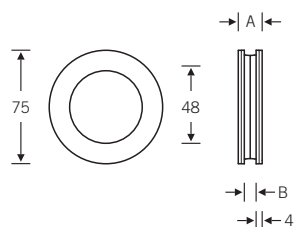
Product no.	B	A
13 4256 00100	8 mm	16 mm
13 4256 00200	10 mm	18 mm
13 4256 00300	12 mm	20 mm

Glass thickness = B, total thickness = A

open version

pair, for inner and outer side
glass-cut-out \varnothing 70 mm

mounted without adhesive, screwed congruently in pairs using 3.9 mm counter-sunk screws, included in delivery



13 4256

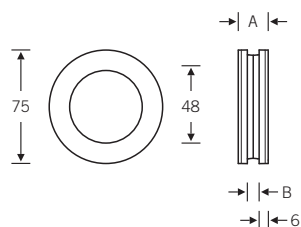
Product no.	B	A
13 4256 00101	8 mm	20 mm
13 4256 00201	10 mm	22 mm
13 4256 00301	12 mm	24 mm

Glass thickness = B, total thickness = A

closed version

pair, for inner and outer side
glass cut-out \varnothing 70 mm

mounted without adhesive, screwed congruently in pairs using 3.9 mm counter-sunk screws, included in delivery



fsb.de/134256

Glass door pull and door stop

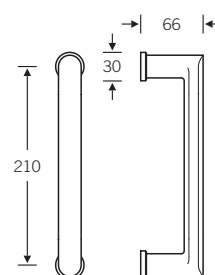
For technical information see page 480f.



36 3688 

Fixed in pairs and going through on one side, see page 562

Design: Christoph Ingenhoven



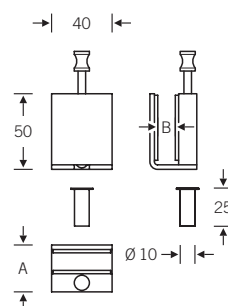
4c



13 4230 

Product no.	B	A
13 4230 000	8 mm	27 mm
13 4230 010	10 mm	29 mm
13 4230 012	12 mm	31 mm

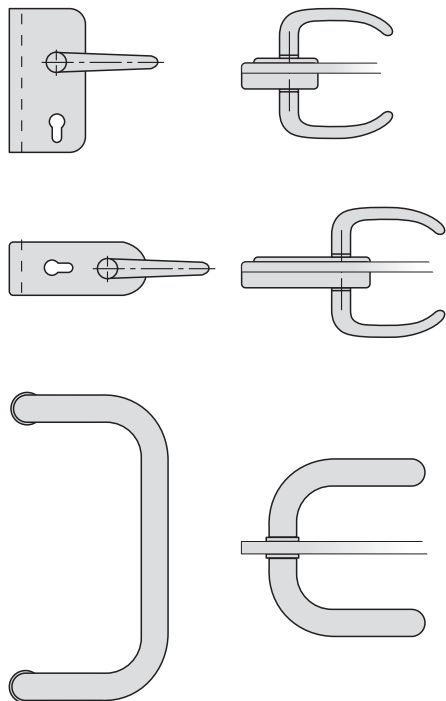
Glass thickness = B, total thickness = A



fsb.de/363688
fsb.de/134230

Technical information

Fittings for glass doors



Door handle fittings for glass door locks

In addition to its own range of glass doors, FSB can also adapt its entire door handle/knob handle programme to the standard heavy-duty glass door fittings manufactured by its competitors (with just a few exceptions). Just a few minor technical changes to the door handle connection and fixing order need to be taken into account. To prevent misunderstandings, the lock type should be given as precisely as possible when ordering door handles and door knobs for glass door locks (e.g. the manufacturer's name and order number).

Please order in plenty of time to allow for the adaptation to be carried out. Delivery ex warehouse is not possible.

Door pulls for glass doors

Door pulls with round or oval cross sections can be used in lots of different ways for opening glass doors or as safety handle constructions and as design elements with special fixing tools for mounting in pairs or individually.

FSB can utilise existing special solutions for glass doors and also develop individual handle designs. You will find the standard fixing solutions for glass doors and the individually available door pull models starting on page 489f..

Glass door fitting compact 13 4224

FSB glass door fitting 13 4224 closes flush with DIN frames, and combines the door frame and fitting in a single visual unit. Of course, non-DIN frames can also be used, but in this case we cannot guarantee that they will fit flush against the frame. Can also be used in combination with partition wall systems.

The transparency of the glass door is enhanced by the discreet dimensions of the lock cover, which at 170 x 89 mm is some 10 % less than on other glass door fittings. This reduction is achieved thanks to the development of a special lock that is easily on a par with the solidity and function of other large locks, and furthermore is suitable for all glass door sizes. We have also developed a special heavy-duty bearing in

the form of a Teflon-coated bearing sleeve that encompasses the door handle along its entire guide length, and can also cope with the mechanical loads associated with large-sized glass doors.

Designs:

- deadlock (LL)
- without key hole
- bathroom/WC: please state when ordering, since the fittings are prepared at the works for the WC locking set 17 1735 09005 as standard. The WC lock is mounted on site, and is to be ordered separately.

Order information for 13 4220 | 13 4223 | 13 4224

Door handles are not included in the delivery of glass door fittings. When ordering, please provide the following information and refer to the glass doors and fitting:

- the desired door handle design
- the fitting design for standard or heavy-duty bearing
- the DIN direction

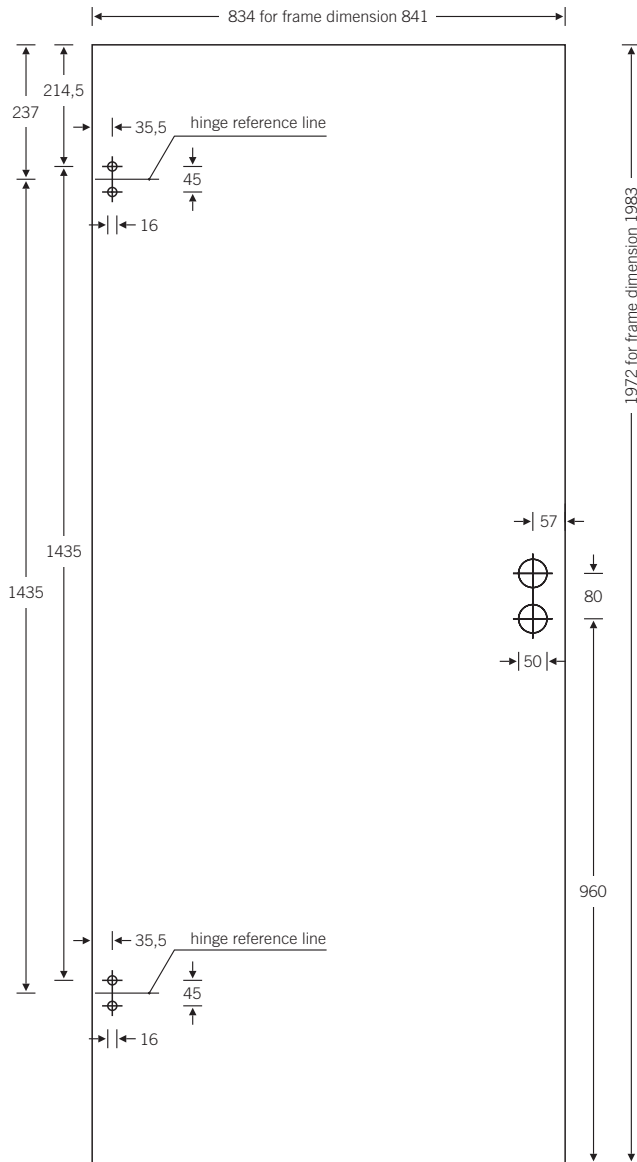
Designs for 13 4220 | 13 4223

- deadlock (LL)
- without key hole
- bathroom/WC
- fittings prepared for WC lock sets from FSB's delivery programme (see page 274). Please order WC lock sets separately; assembly on site.

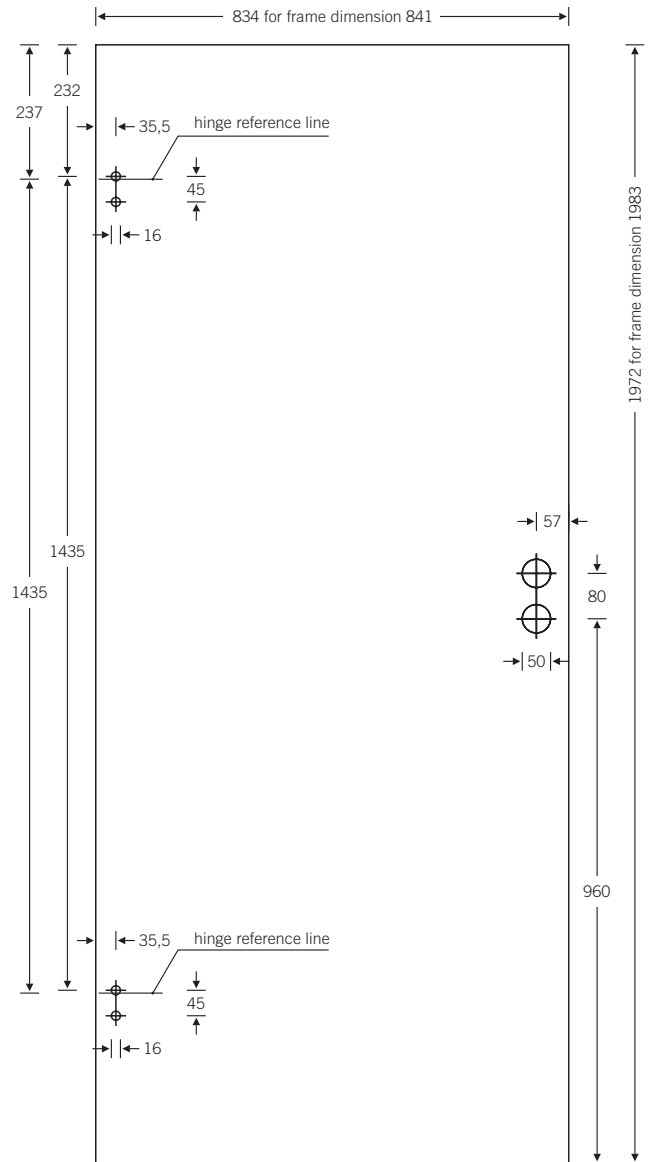
Dimensions for 13 4220 | 13 4223 | 13 4224

Dimensions based on glass thickness 8 mm. The glass door fittings and lock cases are prepared at the works for glass thicknesses 8 and 10 mm (13 4224 on enquiry).

Door dimensions to DIN 18 101



13 4227 00101 | 13 4227 00102
13 4228 00101 | 13 4228 00102



13 4227 00103 | 13 4227 04104 (R) | 13 4227 05104 (L)
13 4228 00103 | 13 4228 04104 (R) | 13 4228 05104 (L)

Approximate carcass dimensions 750 × 2,000 mm
Frame rebate dimensions 716 × 1,983 mm
Standard glass dimensions 709 × 1,972 mm

875 × 2,000 mm
841 × 1,983 mm
834 × 1,972 mm

1,000 × 2,000 mm
966 × 1,983 mm
959 × 1,972 mm

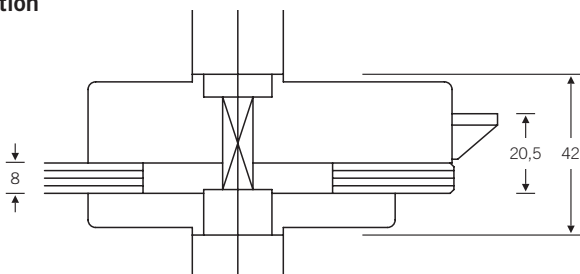
Approximate carcass dimensions 750 × 2,125 mm
Frame rebate dimensions 716 × 2,108 mm
Standard glass dimensions 709 × 2,097 mm

875 × 2,125 mm
841 × 2,108 mm
834 × 2,097 mm

1,000 × 2,125 mm
966 × 2,108 mm
959 × 2,097 mm

4c

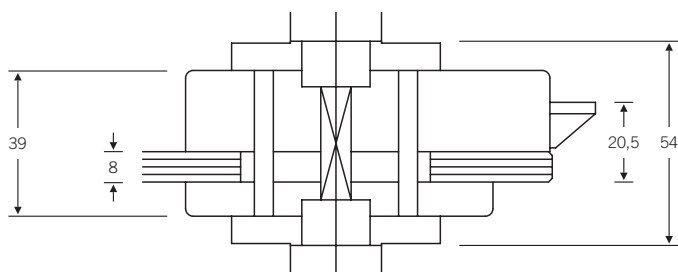
Door handle specification



Glass door fittings of the series 13 4220 041/051 and 13 4223 041/051 specifically require these matching door handle pairs with a shorter door handle base on one side.

When ordering, this specification will be made by our sales staff.

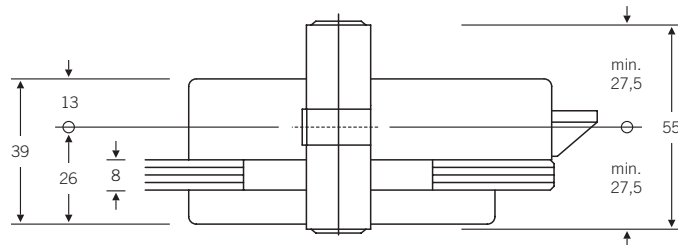
Bearings



Glass door fittings of the series 13 4220 042/052 and 13 4223 042/052 (rose set version) can be fitted either with standard bearings or with AGL® bearings.

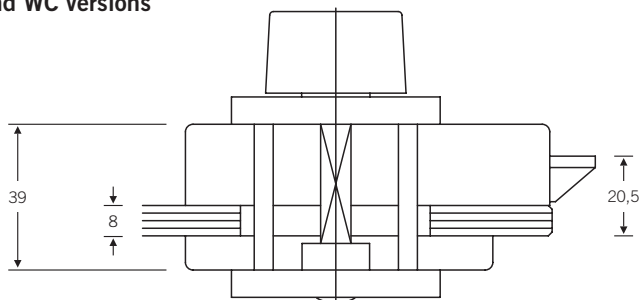
- ⊕ Standard
- ⊕ AGL®

Profile cylinder



For aesthetic reasons, profile cylinders 27.5/27.5 mm long are recommended for all glass door fittings because of the comparatively small cylinder projection.

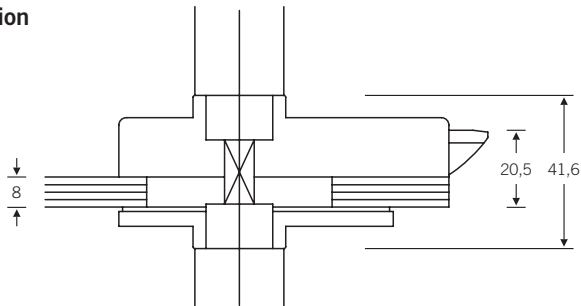
Bathroom and WC versions



The glass door fittings can also all be used as a bathroom/WC version. The series 13 4220 and 13 4223 can be fitted with any WC bolt in FSB's delivery programme (see page 273 f.). Please order separately for fitting on site.

The fittings are equally suitable for doors that open inwards and outwards.

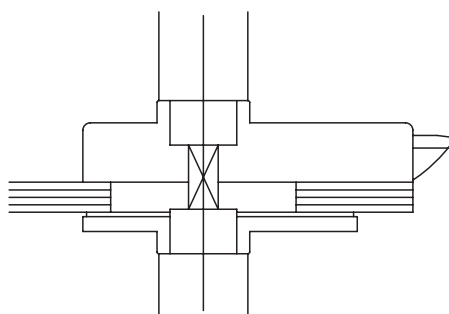
Door handle specification



The glass door fittings of series 13 4224 042/052 require special door handle pairs with a different pin projection from the FSB standard.

When ordering, this specification will be made by our sales staff.

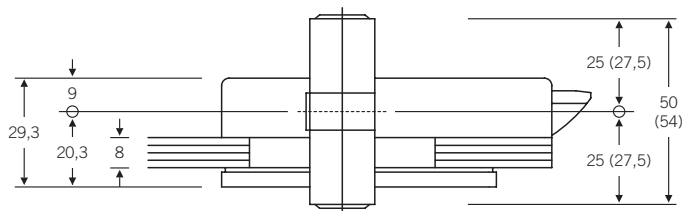
Bearings



In series 13 4224 042/052, the bearing elements are integrated in the shape of a suitable Teflon-coated bearing sleeve that encompasses the handle shank along its entire guide length and can reliably withstand the mechanical loads that occur on heavy-duty glass doors. Does not require additional roses with heavy-duty bearings.

☞ Suitable bearings

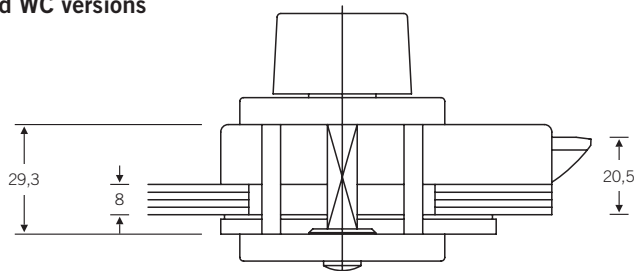
Profile cylinder



For aesthetic reasons, profile cylinders 25/25 mm or 27.5/27.5 mm long are recommended for all glass door fittings because of the comparatively small cylinder projection.

Profile cylinders 25/25 mm can be checked for their suitability in lock systems in individual cases.

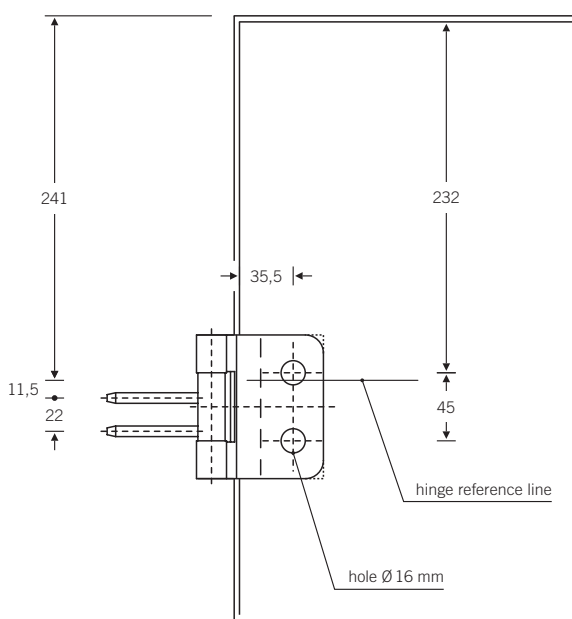
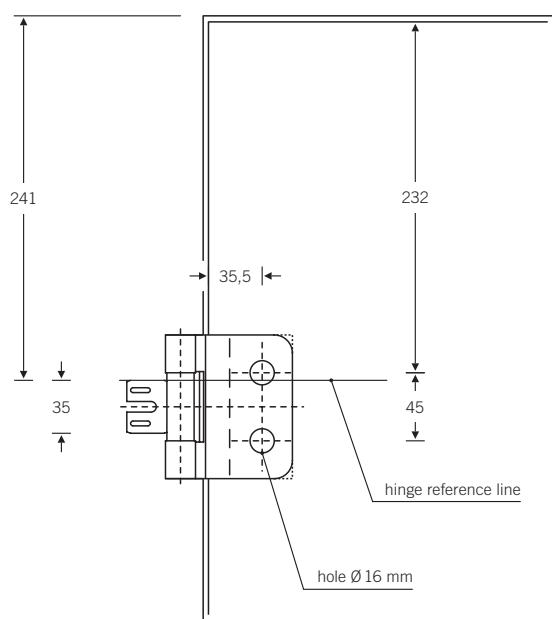
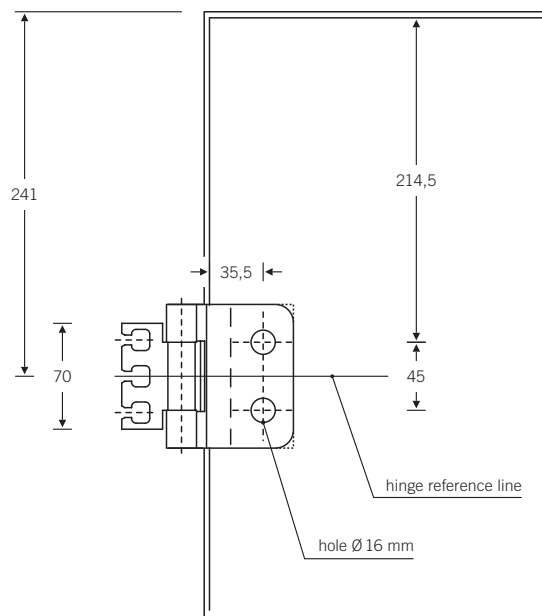
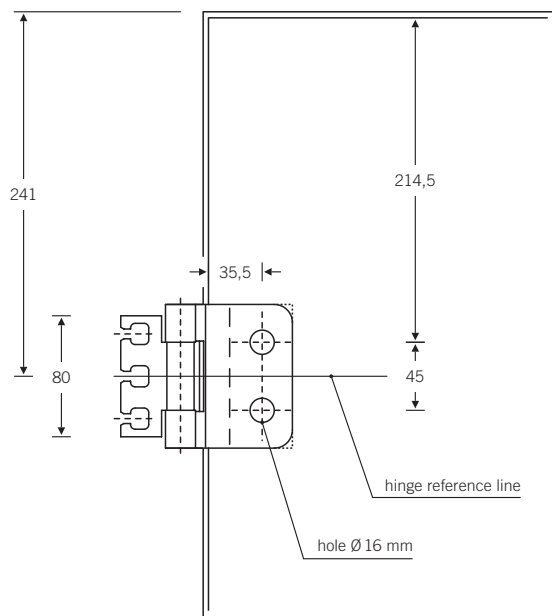
Bathroom and WC versions



Please state WC version when ordering. A special WC bolt set 17 1735 09005 is required for this fitting.

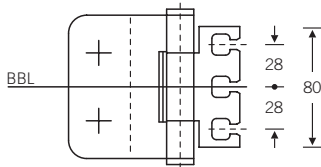
The fittings are equally suitable for doors that open inwards and outwards.

Hinge connections 13 4227 and 13 4228



The hinge connections and their position to the hinge reference line need to be aligned to the drill holes in the glass door. Please note this requirement in connection with FSB heavy-duty hinges 13 4227 00101 or 3 4227 00102, and 13 4228 00101 or 13 4228 00102 in particular.

Frame connection dimension 13 4227 and 13 4228

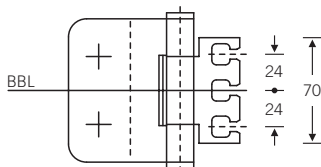


VARIANT heavy-duty hinges for glass doors on rebated wood, steel or aluminium frames

- aligned for all-glass doors with a standard vertical drilling diagram
- for glass thicknesses 8 and 10 mm
- no-twist screw pin
- concealed maintenance-free axial-radial plain bearing
- can be used on right and left

- can be combined with holding element:

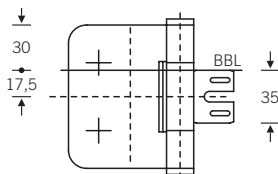
for block frames	VX 7501 3D
for lining frames	VX 7502 3D
for block frames	VX 7505 3D
for steel frames	VX 7611 3D
	VX 7612 3D
for aluminium frames	VX 7521 3D



VARIANT heavy-duty hinges for glass doors on rebated steel frames

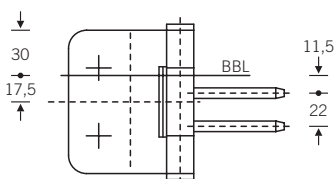
- aligned for all-glass doors with a standard vertical drilling diagram
- for glass thicknesses 8 and 10 mm
- no-twist screw pin
- concealed maintenance-free axial-radial plain bearing
- can be used on right and left

- can be combined with holding element VN 7608/120 3D



VARIANT heavy-duty hinges for glass doors on rebated steel frames

- aligned for all-glass doors with a standard vertical drilling diagram
- for glass thicknesses 8 and 10 mm
- for holding elements V 8600 or V 8610
- can be used on right and left

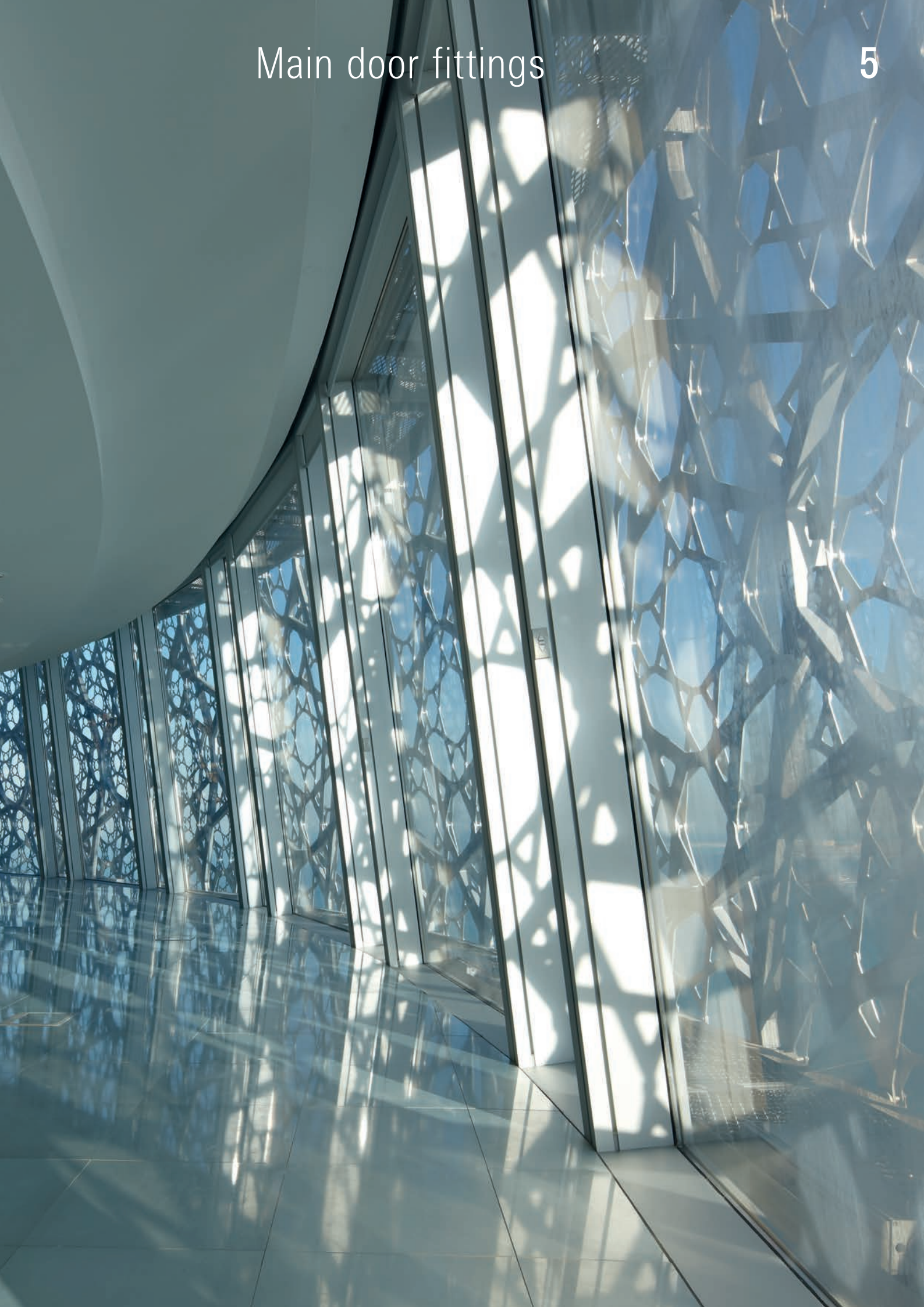


VARIANT heavy-duty hinges for glass doors on rebated wooden wrap-around and block frames

- aligned for all-glass doors with a standard vertical drilling diagram
- for glass thicknesses 8 and 10 mm
- for holding elements series V 3600, V 3610, V 3630, V 3650, V 3690 and terminal block V 3604 or V 3607
- DIN direction required

Please refer to the current SIMONSWERK manual for further information on hinges, hinge connections, frame fixing elements etc.





Doha High Rise

Ateliers Jean Nouvel, Paris
www.jeannouvel.com

Photo: CSCEC

FSB 1003 range of handles,
see page 116 f.

FSB 14 1488 wide backplates,
see page 285

FSB 36 4059 informations signs/pictograms,
see page 391


SSF heavy duty mortice locks,
see page 20 ff.

Stainless steel, fine matt, brushed


www.fsb.de/high_rise

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556	Pull bars	
558	Door handles – turnably fixed (AGL [®])	
560	Fixed with self-tapping insert	
561	Fixed with clamping roses	
562	Drill dimensions	
563	System presentation of the Fixing technology	


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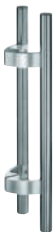
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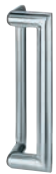
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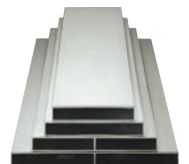
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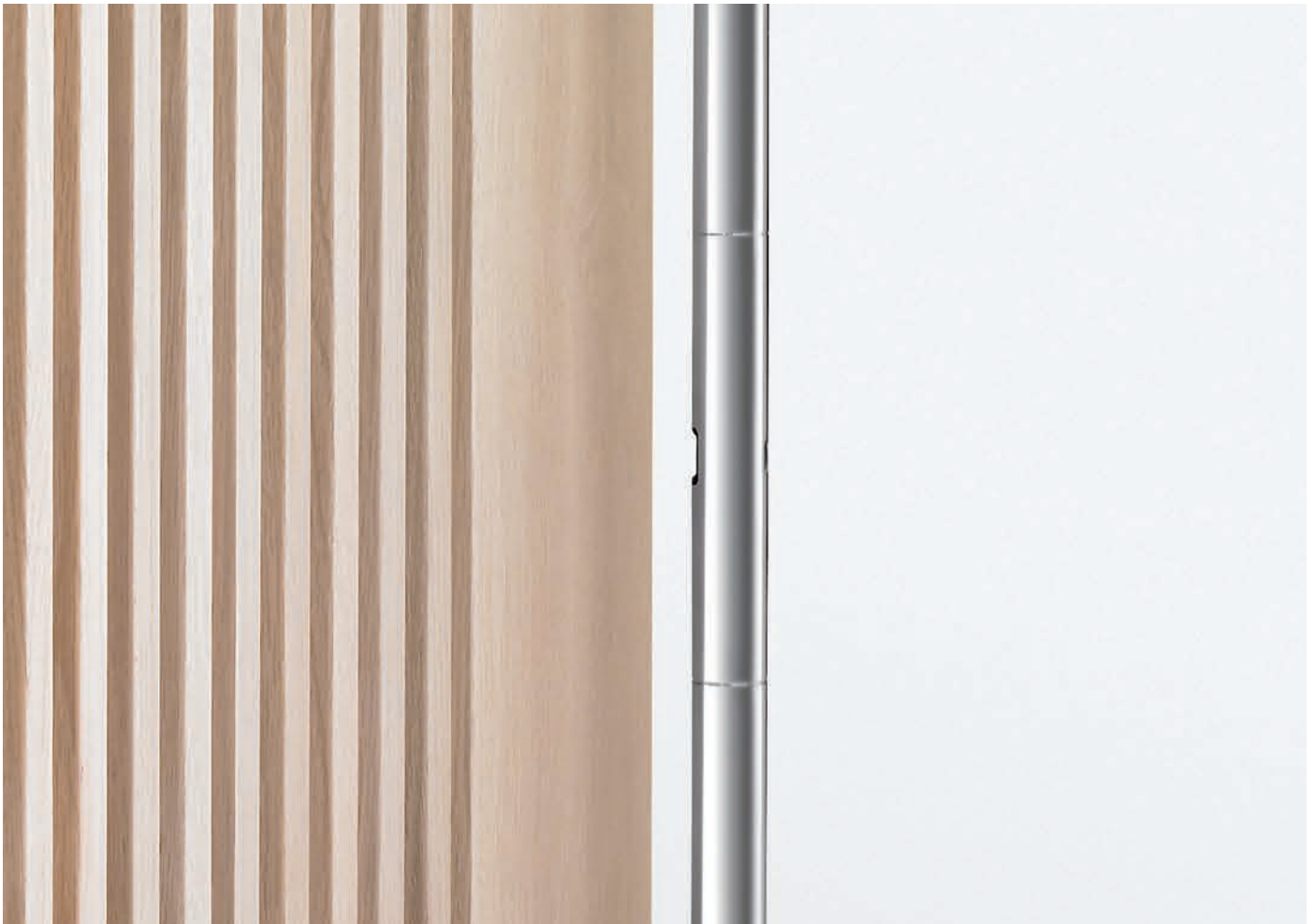


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5a

Whether classic tubular pulls with a round or oval cross-section or the sleek, unobtrusive pull/push handles of the S series with an angular or square cross-section, FSB has the perfect design for any door and taste to hand. This chapter contains the full range. Besides the analogue pull, with isis® F we offer an impressive solution for digital closing. Because: scanning a finger biometrically for access identification should ideally take place on the pull itself – in other words where the fingers grip. You can find our more about FSB door pulls in the isis F series with pull-integrated biometry technology from page 87.

isis® F (= Fingerscan) Pull programme angular S-Flat

Square. Practical. New.
FSB's square main door programme.

FSB is adding a small but perfectly formed selection of pulls of angular/square cross-sections to its established range of round and oval tubular pulls in this new manual.

Having got the ball rolling early in 2010 with a complete range of internal hardware flush doors, frame doors and windows, FSB can now also offer architects, fabricators and end users the formal vocabulary of angular (pull) designs for main doors. The "angular" house door programme includes the following products:

- the new "S-Flat" push/pull pad handle series designed by the established designer Hartmut Weise. In the best Bauhaus tradition, he opted for a geometrical approach in his concept that sees every angular pull matched by a rounded counterpart. The S-Flat pulls are available in various dimensions and open or closed forms. Find out more on pages 496f. and 553.
- as a technical constructive pull solution, FSB's well-known and popular ht series in a welded version with a pull section of 35 x 35 mm and in lengths of 350 to 2100 mm, see page 502f.
- angular and cranked push/pull bars with a Pull cross-section of 25 x 25 mm, which we are also happy to provide in individual designs and impressive special lengths, designs 66 6519 and 66 6520, see page 524.
- as an alternative with an angular section of 40 x 10 mm FSB 66 6548, also in special lengths, see page 514f.
- and finally – the essential security accessory: the new security rose FSB 73 7397, the angular shape also tested and certified to DIN EN 18257 ES1, see page 597.

The accessories range extends from angular door knobs and security hardware, turnably fixed half fittings, plus letterboxes, intercoms and bell-push plates of the series 38 3808, 38 3810 and 38 3811. Not to forget the popular house numerals FSB 38 4005.

Door pull series oval

One key feature of the FSB door pull programme, and an alternative to the traditional round cross-sections, are the oval pulls developed by FSB in the last decade. FSB discovered the formula "diagonal + oval = ideal gripping" reduces the amount of effort required when taking hold of and operating the pulls on doors. The oval styling offers the market a new gripping quality for eye and hand that FSB has copyrighted. As well as the tubular programme, FSB now offers almost all the traditional styles in the user-friendly oval shape.

A flat oval pull series by our in-house designer Hartmut Weise is a modern interpretation of architecture. The ht modular system has been transferred to the oval tube for speedy results. It can be used to create clean solutions on-site up to a length of 1500 mm with no great difficulties. For lengths of 1500 mm or more, FSB recommends a factory welded construction. Welded ht pull versions shorter than 1500 mm are also possible.

The hs modular system also offers other design variants with oval or round stainless steel grip sections and aluminium supports powder-coated in silver grey and with two pull cross-sections.



The back lining on the S-Flat pulls with a curve made of Technogel® ensures a pleasantly soft feel and ergonomic grip.

isis® F: Fingerscan door pull with biometric technology

With electronic functions that provide comfort and security in equal measure, FSB has proven that thinking about a product and considering human habits and preferences can result in significant innovations. After all, the biometric reading of a finger for access identification should ideally take place directly on the pull – in other words, at the point where the fingers make contact, our technicians thought to themselves. No sooner said than done: the result was the isis® F door pull with the biometric identification unit integrated in the pull. Go to page 87 to find out just what the pull can do.

Bronze main door programme

FSB's main door programme has become firmly established as a point of reference in the high quality and exclusive furnishing of entrance areas. It includes pulls from the ht modular system (welded version, round and oval) in lengths of up to 2100 mm, modern designs in the "light + elegant" pull series with a flat-oval cross section, the work of our very own in-house designer Hartmut Wiese, and classic pull designs of 30 mm diameter and in lengths of up to 1200 mm. The programme is rounded off by design FSB 66 6681, which is available in any length and with variably positioned supports.

The accessories programme ranges from door knobs, security roses and fittings, turnably fixed door handle half sets (AGL®), intercom and bell-push plates and letterboxes from the series 38 3808, which are optionally available with the name engraved, and with a patinated bronze finish for a particularly elegant effect.

Please request the appropriate brochure (no charge) or go to www.fsb.de/bronze

Materials

As a general rule, FSB tries to offer the entire pull programme in the materials aluminium, stainless steel and a number of standard shapes in bronze or brass, although stainless steel is recommended for doors that experience a high level of traffic. Aluminium finishes can easily be “injured” in such situations without the ageing process having any effect on the pull’s suitability for purpose. Because the surface is prone to corrosion, brass pulls are only available with a wax finish. It takes many years for the natural brown protective patina to develop on brass pulls.

Fixed with clamping roses

Fixing with FSB’s clamping rose is a type of door pull fixing method in which the FSB door pulls with a round base are positioned safely on the surface of the door by means of an easy-to-fix clamping rose. This eliminates the requirement for the visible fixing screws. The radial play included by FSB provides the necessary tolerance offset. Find out more about this fixing method on page 561.

Fixing scenarios

Door pulls can be either face or through-fixed to doors made of the most diverse materials.

In the case of through-fixing, either a pair of pulls or a single pull can be fitted. There are three fixing options, “back-to-back” fixing, “bolt through” fixing and “face fixing with a self-tapping insert”, which are illustrated (see below).

With regard to the issue of face fixing versus bolt-through fixing, FSB wishes to point out that on account of the insert fastening technique FSB uses, face fixing is both aesthetically pleasing and sufficiently durable as a rule. However, there is one restriction with regard to doors with high frequency (for instance in schools, office buildings and other public facilities): in these cases, we strongly recommend bolt-through fixing, which ensures that the furniture remains fit for use even after years of pushing and pulling, since the forces involved are absorbed on both sides of the door.

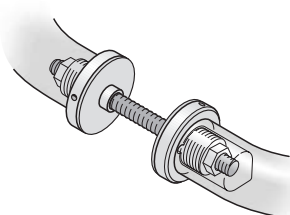
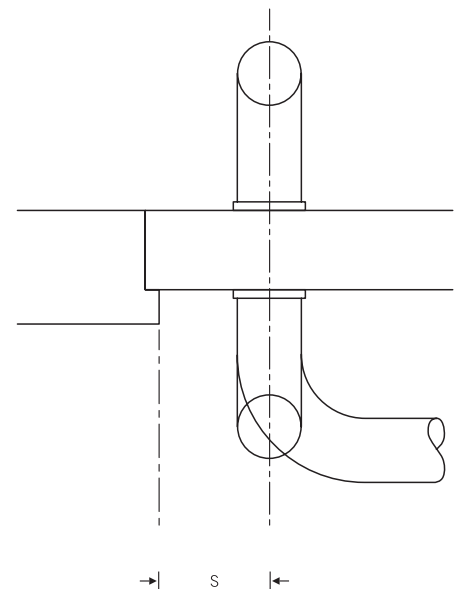
Door pulls: in pairs or singles?

To make it easier to understand the technology and design, we show door pulls in pairs. In this way the reverse side and geometric configuration can be seen. Naturally we also supply door pulls as single items.

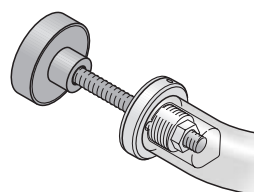
Safety clearance (S)

When fitting a pull to the closing face of a door, a safety clearance needs to be included between the pull, stile and jamb. The assembly scenario is made clearer in the following sketch.

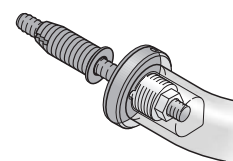
It is best to observe the safety clearances recommended by FSB. However, the final decision is determined by the conditions on site.



Fixing A
back-to-back fixing



Fixing B
bolt-through fixing

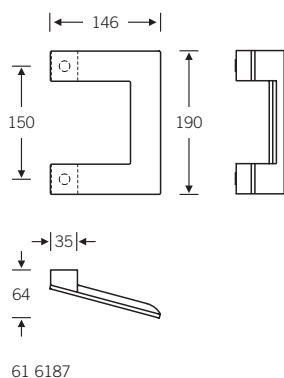


Fixing C
face fixing with self-tapping insert

S-Flat push/pull pad handle angular

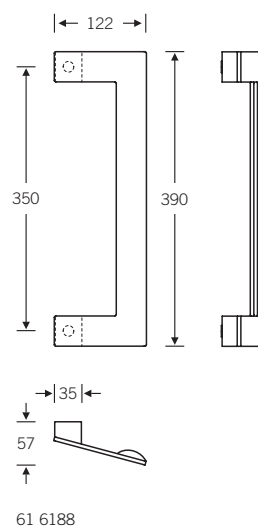
For technical information see page 560f.

61 6187 | 61 6188 ■

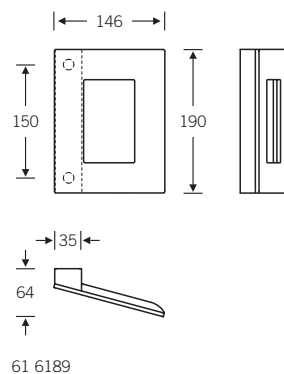


Angular open
Supports powder-coated in silver grey

Fixing M8

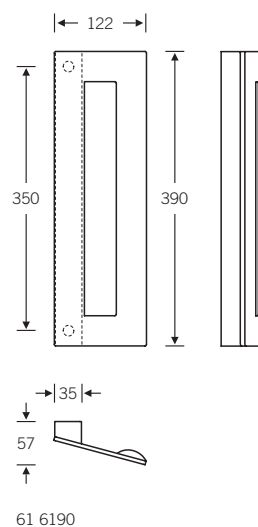


61 6189 | 61 6190 ■



Angular closed
Supports powder-coated in silver grey

Fixing M8



fsb.de/616187
fsb.de/616188
fsb.de/616189
fsb.de/616190

Design: Hartmut Weise

Other S-Flat push/pull pad handles
see page 553

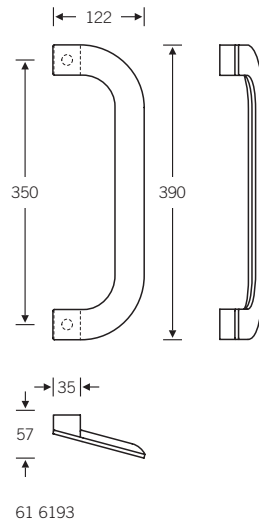
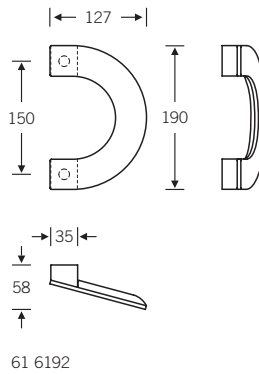
S-Flat push/pull pad handle round

For technical information see page 560f.

61 6192 | 61 6193 ■

Round open
Supports powder-coated in silver grey

Fixing M8

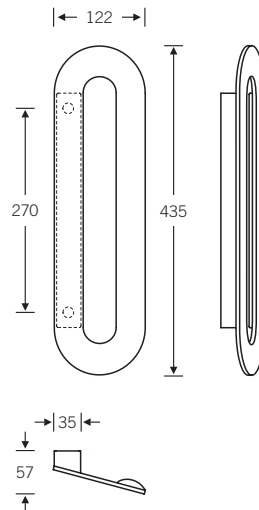


5a

61 6195 ■

Round closed
Supports powder-coated in silver grey

Fixing M8



fsb.de/616192
fsb.de/616193
fsb.de/616195

Design: Hartmut Weise

Other S-Flat push/pull pad handles
see page 553

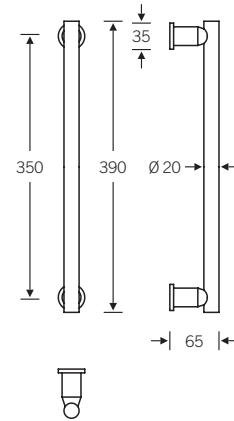
Door pulls round

For technical information see page 560f.

66 6501 



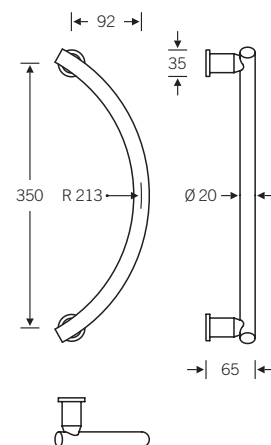
Pull cross-section \varnothing 20 mm
Fixing M8
Safety clearance $S = 49$ mm
(see page 495)



66 6504 



Pull cross-section \varnothing 20 mm
Fixing M8
Safety clearance $S = 59$ mm
(see page 495)



fsb.de/666501
fsb.de/666504

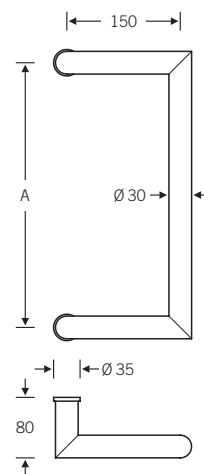
Door pull round

For technical information see page 560f.

66 6514 ■

Product no.	A	Ø
66 6514 038	350	30
66 6514 045	450	30

Fixing M8
Safety clearance S = 55 mm
(see page 495)



5a

fsb.de/666514

Door pull round

For technical information see page 560f.

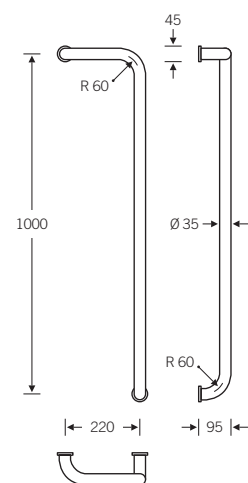
66 6506 

66 6506 065 (R)
66 6506 075 (L)

Pull cross-section \varnothing 35 mm
Fixing M8
Safety clearance $S = 47$ mm
(see page 495)

Illustration: right, exterior view

Directions see page 738f.



fsb.de/666506

Door pull round

For technical information see page 560f.

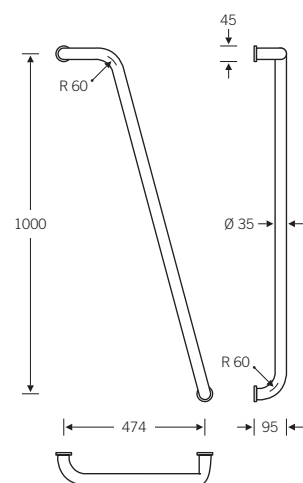
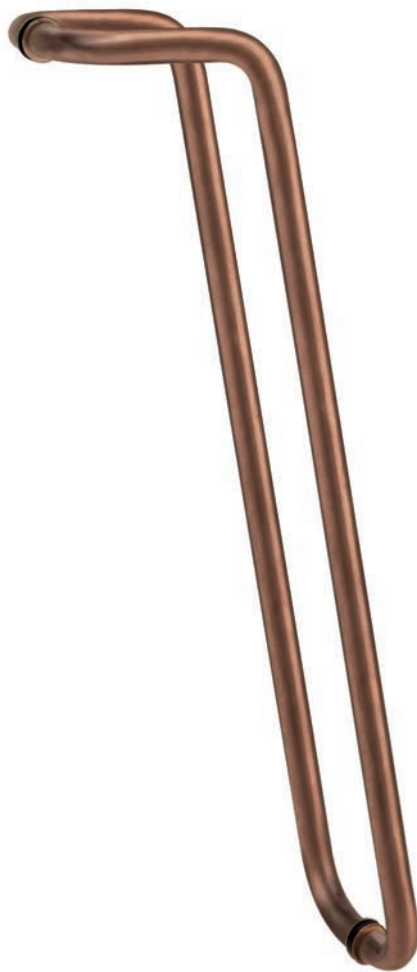
66 6507 

66 6507 065 (R)
66 6507 075 (L)

Pull cross-section \varnothing 35 mm
Fixing M8
Safety clearance S = 47 mm
(see page 495)

Illustration: right, exterior view

Directions see page 738f.



5a

fsb.de/666507

ht angular welded 350 mm to 2100 mm

For technical information see page 560f.

66 6527 ■

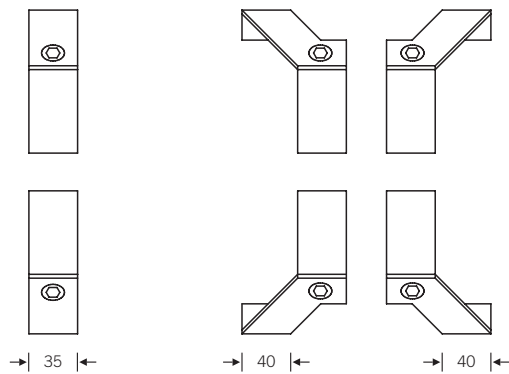
Square tube $\square 35 \times 35 \times 2.5$ mm

66 6527 is a factory-welded version with an angular Pull cross-section based on the concept "md modular system" (page 546f.) or "ht welded" (page 504). FSB manufactures the 66 6527 pull style to order in A sizes from 350 mm to maximum 2100 mm.

The dimensions of the two support variants for a straight or cranked pull design are defined. When ordering, please also provide the A dimension defining the fixing clearance from the middle of the screw hole of one support to the middle of the screw hole of the other support. The overall length of the pull is achieved by adding the dimensions 2×20 mm (drill hole clearance including material) thickness.



45 . . 46 . . r.h. 56 . . l.h.



. . 45 . . 46 r.h. . . 56 l.h.

fsb.de/666527

The static requirements and local conditions are to be taken into account when using ht angular welded. These pulls are not a substitute for gymnastic bars, and must not be used as falling protection on

hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details on the fixing technology on page 560f.

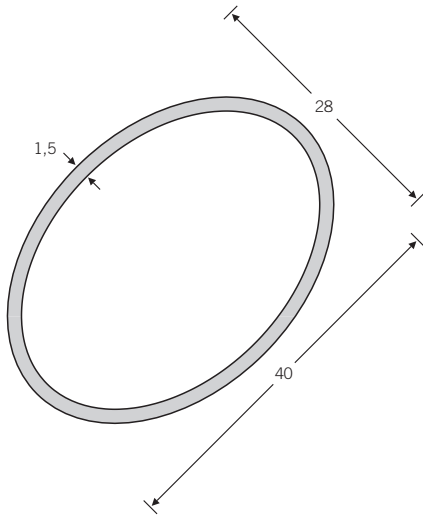
ht oval welded

1000 mm to 2100 mm

For technical information see page 560f.

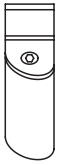

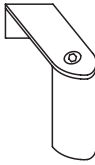
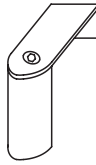


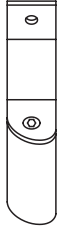








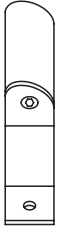
66 6524 

Tube 28 × 40 × 1.5 mm



66 6524 is the factory-welded version based on the components of the ht oval modular system (see page 549). From dimension A 1000 mm it can be used as an independent pull design, and is also recommended for dimensions A from 1500 to 2100 mm as a stability solution in the ht oval modular system.

5a

45 .. r.h.	55 .. l.h.	46 .. r.h.	56 .. l.h.	47 .. r.h.	57 .. l.h.	48 .. r.h.	58 .. l.h.
							
							
.. 45 r.h.	.. 55 l.h.	.. 46 r.h.	.. 56 l.h.	.. 47 r.h.	.. 57 l.h.	.. 48 r.h.	.. 58 l.h.

The pulls of the welded series FSB 66 6524 are made to order. Specify the desired supporting combination with the drawings and the numbers given there (e.g. FSB 66 6524 4545). Also provide the dimension A, the fixing clearance between the middle of the screw hole of one support to the middle of the screw hole of the other support. Adding or subtracting the differences in dimension on page 549 gives us the tube length of the pull before welding.

We generally manufacture the bronze versions of FSB 66 6524 with the support combination 45/55 or 46/56.

fsb.de/666524


The static requirements and local conditions are to be taken into account when using ht oval (for self assembly or in the factory-welded version). These pulls are not a substitute for gymnastic bars, and must

not be used as falling protection on hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details on the fixing technology on page 560f.

ht round welded

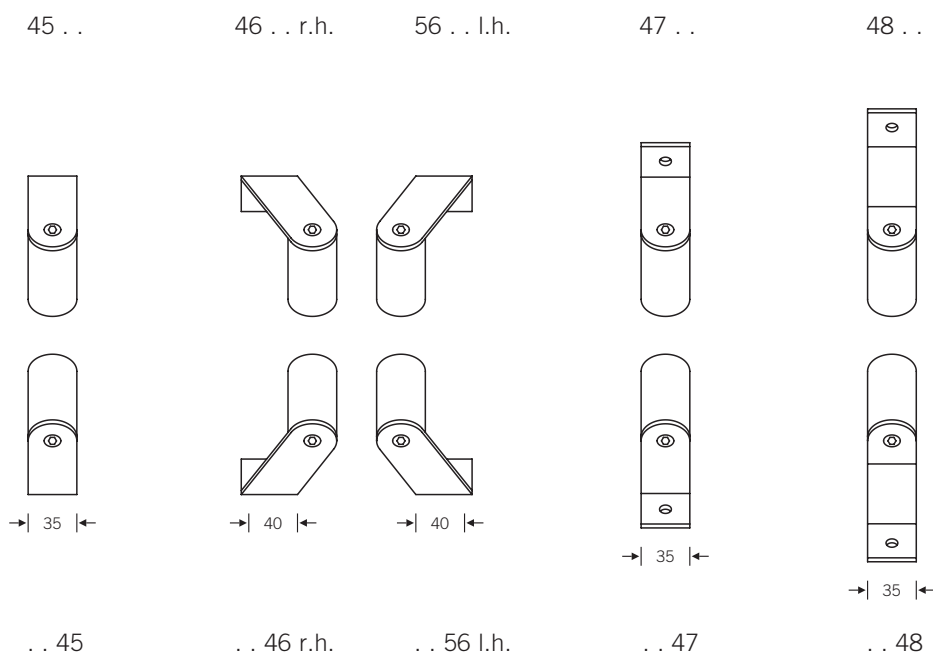
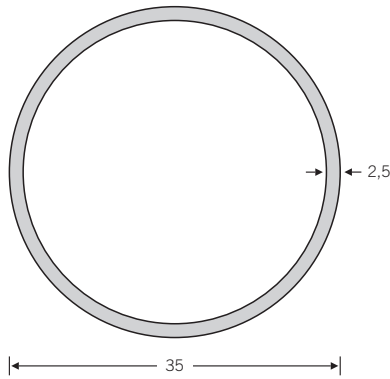
1000 mm to 2100 mm

For technical information see page 560f.

66 6522 

Tube $\varnothing 35 \times 2.5$ mm

66 6522 is the factory-welded version based on the components of the ht round modular system (see page 547). From dimension A 1000 it can be used as an independent pull design, and is also recommended for dimensions A from 1500 to 2100 mm as a stability solution in the ht round modular system.



The pulls of the welded series FSB 66 6522 are made to order. Specify the chosen support combination using the drawings and the numbers given there (e.g. FSB 66 6522 5656). Also provide the dimension A that defines the fixing clearance from the middle of the screw hole of one support to the middle of the screw hole of the other support. We add or subtract the differences in dimension on page 546 to calculate the tube length of the pull before welding.

We generally manufacture the bronze versions of FSB 66 6522 with the support combination 45 or 46/56.

ht round welded

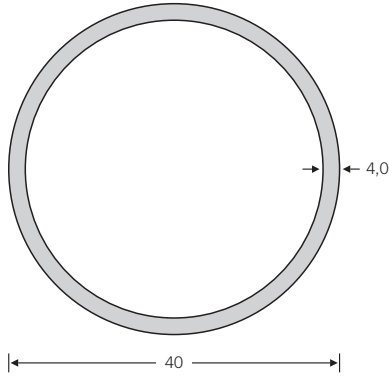
Overlengths from 2100 mm

For technical information see page 560f.

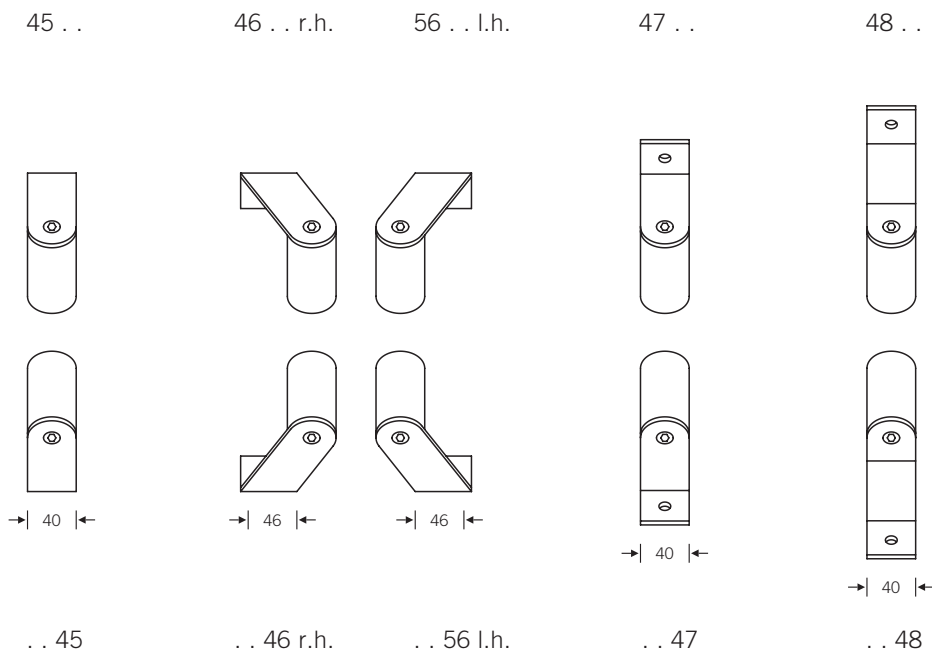
66 6523 ■

Tube $\varnothing 40 \times 4$ mm

For overlengths starting from a dimension A of 2100 mm, we offer another factory-welded version based on a more stable tube cross-section of 40×4 mm. In all other respects FSB 66 6523 is based on the other design elements of the ht round series.



5a



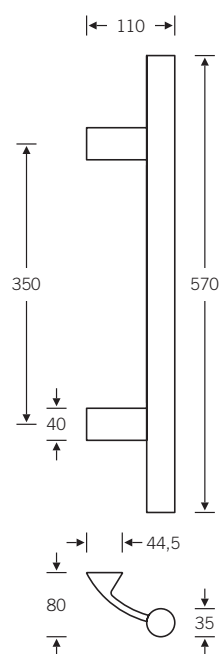
The pulls of the welded series FSB 66 6523 are made to order. Specify the chosen support combination using the drawings and the numbers given there (e.g. FSB 66 6523 5656). Also provide the dimension A that defines the fixing clearance from the middle of the screw hole of one support to the middle of the screw hole of the other support. We add or subtract the differences in dimension on page 546 to calculate the tube length of the pull before welding.

Door pull round

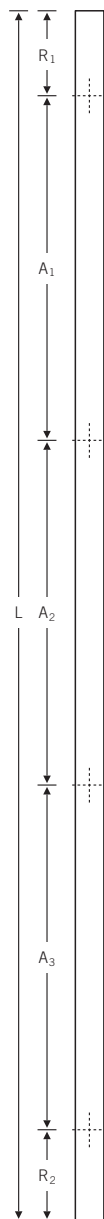
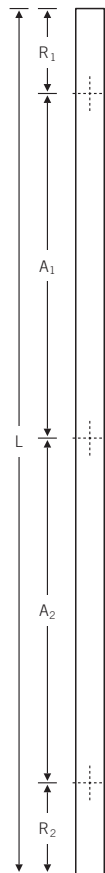
For technical information see page 560f.

66 6526 

Supports aluminium natural-coloured



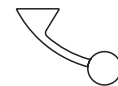
fsb.de/666526



Please use a copy of this page to order the door pull series 66 6526 in variable lengths:

In the table below, please enter the quantity and overall length. Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm.

66 6526 (Ø 35 mm)



5a

Quantity	Overall length L	Support clearance			Edge clearance*		Fixing type
		A ₁	A ₂	A ₃	R ₁	R ₂	

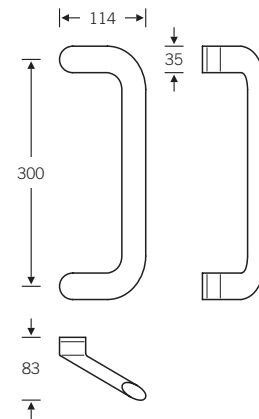
* min. 40 mm, max. 350 mm

Door pulls oval

For technical information see page 560f.

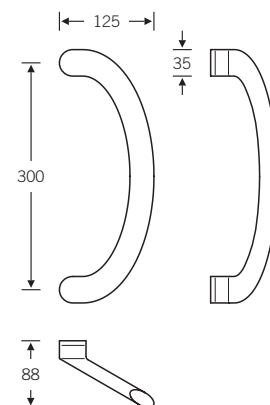
66 6533 

Pull cross-section $\varnothing 35 \times 17.5$ mm



66 6534 

Pull cross-section $\varnothing 35 \times 17.5$ mm



fsb.de/666533
fsb.de/666534

Design: Hartmut Weise

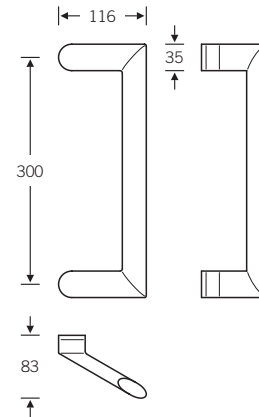
The two pulls in aluminium only available in natural anodised finish (FSB 0105)

Door pulls oval


For technical information see page 560f.

66 6535 

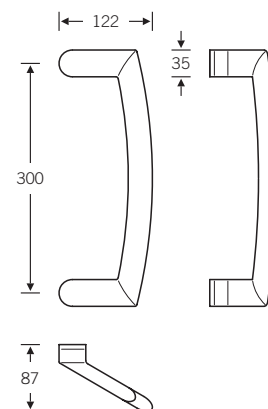
Pull cross-section $\varnothing 35 \times 17.5$ mm



5a

66 6536 

Pull cross-section $\varnothing 35 \times 17.5$ mm



fsb.de/666535
fsb.de/666536

Design: Hartmut Weise

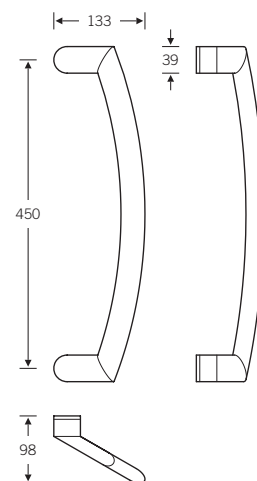
The two pulls in aluminium only available in natural anodised finish (FSB 0105)

Door pull oval

For technical information see page 560f.

66 6537 

Pull cross-section $\varnothing 39 \times 20$ mm



fsb.de/666537

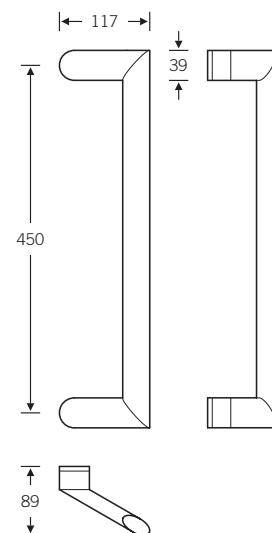
Design: Hartmut Weise

Door pull oval

For technical information see page 560f.

66 6538 

Pull cross-section $\varnothing 39 \times 20$ mm



5a

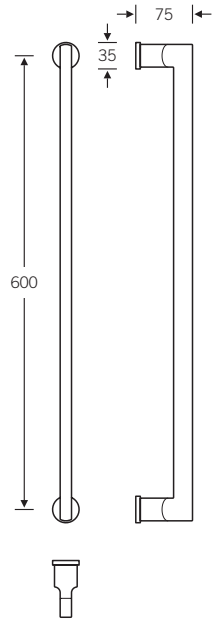
fsb.de/666538

Design: Hartmut Weise

Door pulls round

For technical information see page 560f.

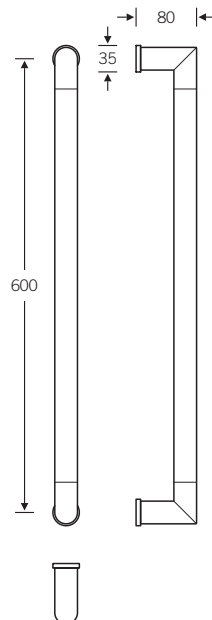
66 6540 ■



to match FSB 1035

Safety clearance $S = 45$ mm
(see page 495)

66 6541 ■ ■



to match FSB 1077

Grip section stainless steel,
elbow aluminium

Safety clearance $S = 51$ mm
(see page 495)

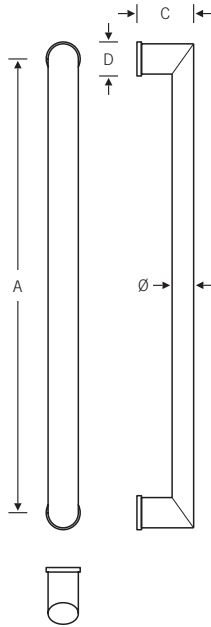
fsb.de/666540
fsb.de/666541

Door pulls

oval / round

For technical information see page 560f.

66 6542 ■

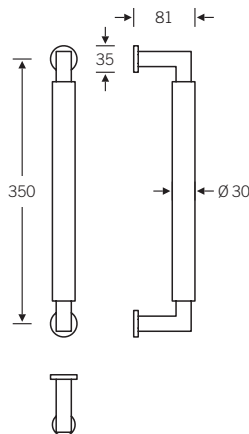


Product no.	A	Ø	C	D	S
66 6542 030	300	30 × 15	60	35	48
66 6542 060	600	40 × 28	75	45	55

to match FSB 1107 and FSB 1108

S = Safety clearance (see page 495)

66 6546 ■



match to FSB 1102

Special lengths with dimensions A possible to 1200 mm

Safety clearance S = 51 mm (see page 495)

fsb.de/666542
fsb.de/666546

Door pull straight

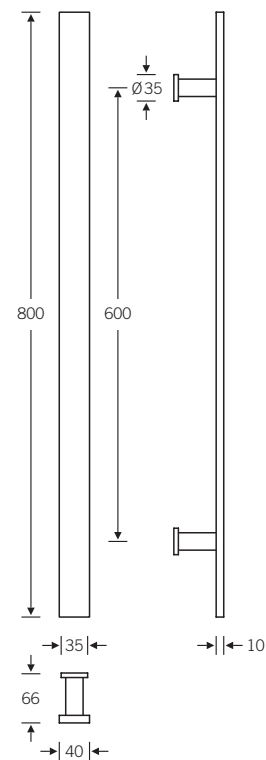
For technical information see page 560f.

66 6548 ■

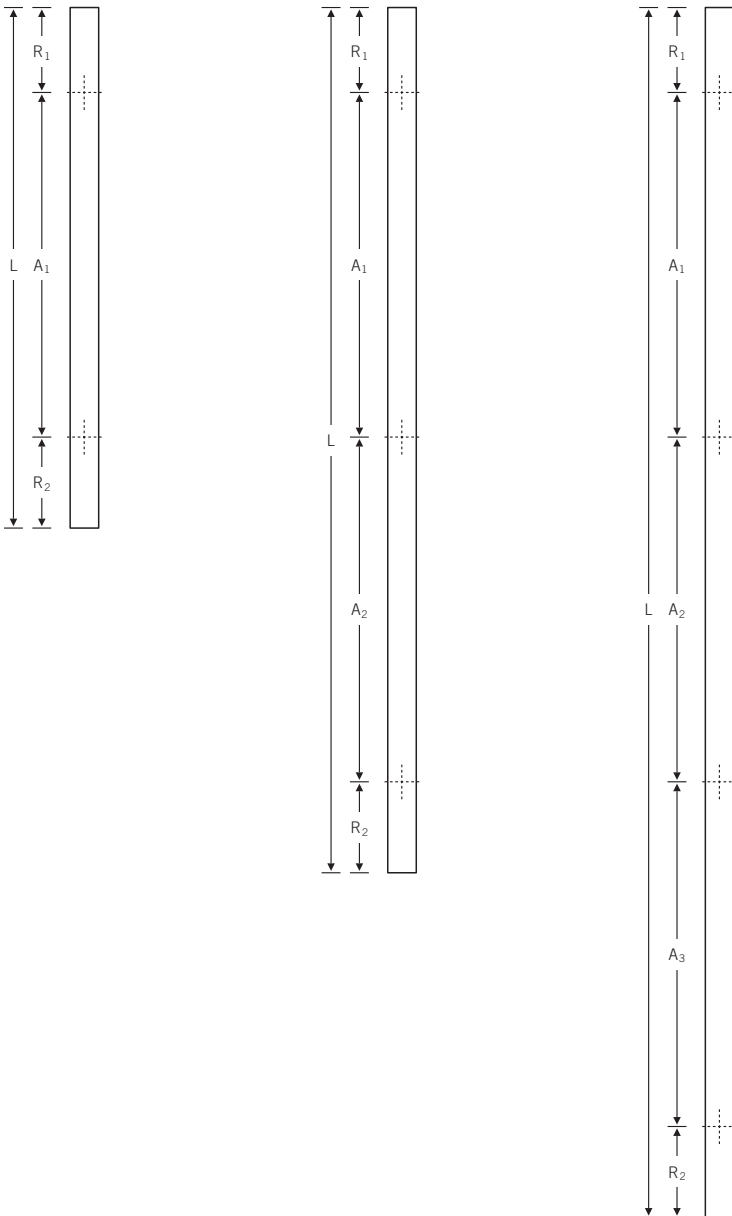
match to FSB 1003

Safety clearance $S = 55$ mm
(see page 495)

Pull cross-section 40×10 mm



fsb.de/666548



Please use a copy of this page to order the door pull series 66 6548 in variable lengths:

In the table below, please enter the quantity and overall length. Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 600 mm, and the clearance from the edge 250 mm

66 6548 (Pull cross-section 40 × 10 mm)



5a

Quantity	Overall length L	Support clearance			Edge clearance*		Fixing type
		A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 30 mm, max. 250 mm

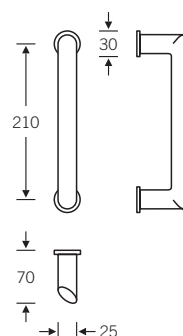
Door pulls


oval

For technical information see page 560f.

66 6610 

Fixing M6
Safety clearance S = 45 mm
(see page 495)



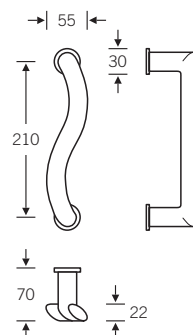
66 6611 

66 6611 02485 (R)
66 6611 02585 (L)

Fixing M6
Safety clearance S = 60 mm
(see page 495)

Illustration: right*, exterior view
Directions see page 738f.

* required for DIN left opening
to the inside




fsb.de/666610
fsb.de/666611

Design: Hartmut Weise

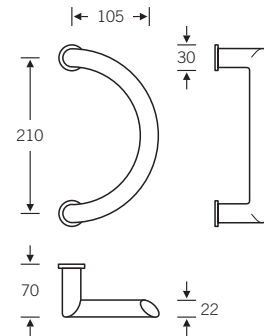
The two pulls in aluminium only available
in natural anodised finish (FSB 0105)

Door pulls oval


For technical information see page 560f.

66 6612 

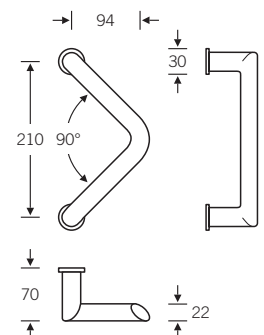
Fixing M6
Safety clearance S = 48 mm
(see page 495)



5a

66 6613 

Fixing M6
Safety clearance S = 48 mm
(see page 495)



fsb.de/666612
fsb.de/666613

Design: Hartmut Weise

The two pulls in aluminium only available
in natural anodised finish (FSB 0105)

Door pull round

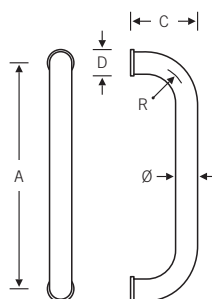
For technical information see page 560f.

66 6602 



Product no.	A	Ø	R	C	D	S
66 6627 034	200	20	25	75	30	45
66 6670 034	200	25	40	80	35	48
66 6670 037	300	25	40	80	35	48
66 6670 038	350	25	40	80	35	48
66 6602 038	350	30	55	90	35	51
66 6603 038	350	35	60	95	45	56
66 6604 038	350	40	60	105	45	65
66 6670 099	200–1200	25	40	80	35	48
66 6602 099	300–1200	30	55	90	35	51
66 6603 099	300–1200	35	60	95	45	56
66 6604 099	350–1200	40	60	105	45	65

Bronze only in Ø 25 mm (66 6670) and 30 mm (66 6602)
Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8




fsb.de/666602
fsb.de/666603
fsb.de/666604
fsb.de/666627
fsb.de/666670

S | Safety clearance (see page 495)

Door pull round

For technical information see page 560f.

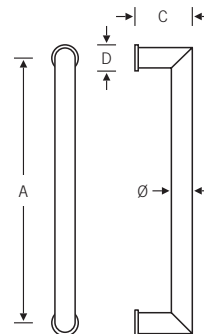
66 6669 

Product no.	A	Ø	C	D	S
66 6606 038	350	25	75	35	50
66 6669 038	350	30	80	35	55
66 6607 038	350	35	85	45	57
66 6609 038	350	40	90	45	60
66 6669 099	custom	30			
66 6609 099	custom	40			

Special lengths with dimensions A to 1200 mm
in Ø 30, 35 and 40 mm
Bronze only in Ø 30 mm (66 6669 038)
Fixing M8



5a



fsb.de/666606
fsb.de/666607
fsb.de/666609
fsb.de/666669

S | Safety clearance (see page 495)

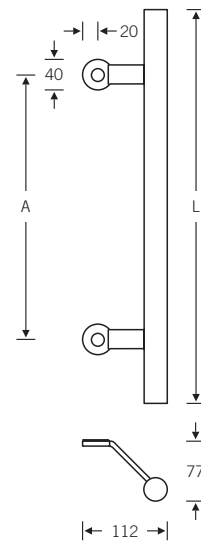
Door pull round

For technical information see page 560f.

66 6615 ■

Product no.	A	Ø	L
66 6615 035	350	30	550
66 6615 045	450	30	650
66 6615 099	451–2100	30	var.

Pull cross-section Ø 30 mm



fsb.de/666615

FSB recommends a support clearance of max. 1200 mm.

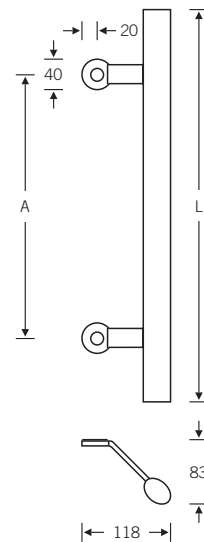
Door pull oval

For technical information see page 560f.

66 6616 ■

Product no.	A	Ø	L
66 6616 035	350	40 × 28	550
66 6616 045	450	40 × 28	650
66 6616 099	451–2100	40 × 28	var.

Pull cross-section Ø 40 × 28 mm



5a

fsb.de/666616

FSB recommends a support clearance of max. 1200 mm.

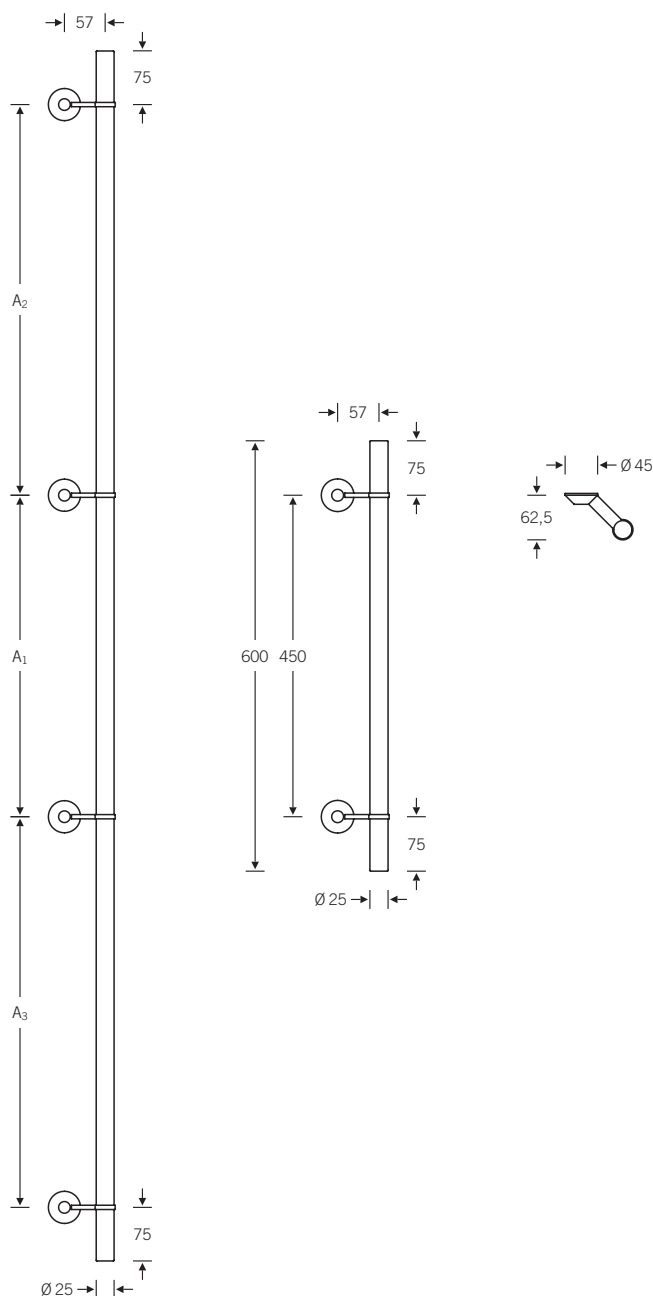
Door pull round

For technical information see page 560f.

66 6620 ■

Product no.	A ₁	A ₂	A ₃	∅	End piece
66 6620 099	X	X	X	25	75 mm

66 6620 045 (overall length 600 mm)



fsb.de/666620

The filigree pull 66 6620 (∅ 25 mm) is ideal for very narrow frame door profiles. The safety clearance from the middle of the fixing to the middle of the pull handle is 57 mm. As a standard pull it is offered with a dimension A of 450 mm and an

overall length of 600 mm, but it can also be taken over the entire door. The standard dimension of the end pieces is 75 mm. FSB recommends a maximum support clearance of 1200 mm.

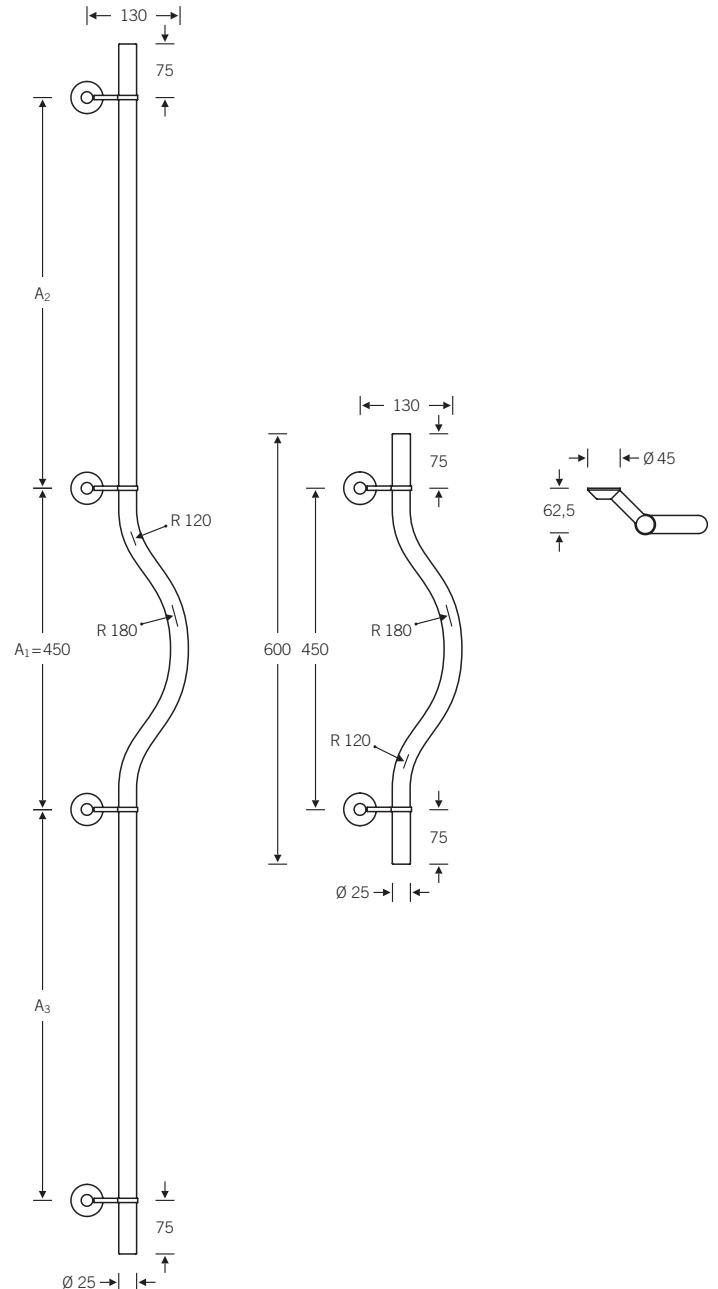
Door pull round

For technical information see page 560f.

66 6621 ■

Product no.	A ₁	A ₂	A ₃	∅	End piece
66 6621 099	450	X	X	25	75 mm

66 6621 045 (overall length 600 mm)



fsb.de/666621

The filigree pull 66 6621 (∅ 25 mm) is ideal for very narrow frame door profiles. The safety clearance at the rounded area of the pull is 130 mm. As a standard pull it is offered with a dimension A of 450 mm

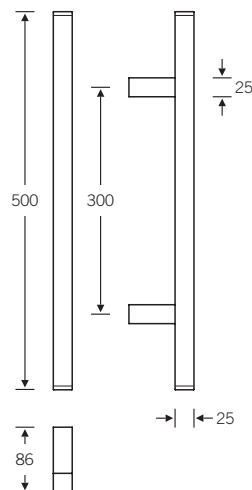
and an overall length of 600 mm, but it can also be taken over the entire door. The standard dimension of the end pieces is 75 mm. FSB recommends a maximum support clearance of 1200 mm.

66 6519 ■



Pull cross-section □ 25 × 25 mm
Fixing M8
Standard length 500 mm (also in special lengths; see fax form at side)
Safety clearance S = 53 mm
(see page 495)

Illustration on left shows a special length

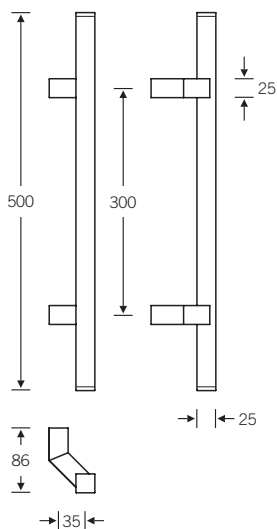


66 6520 ■

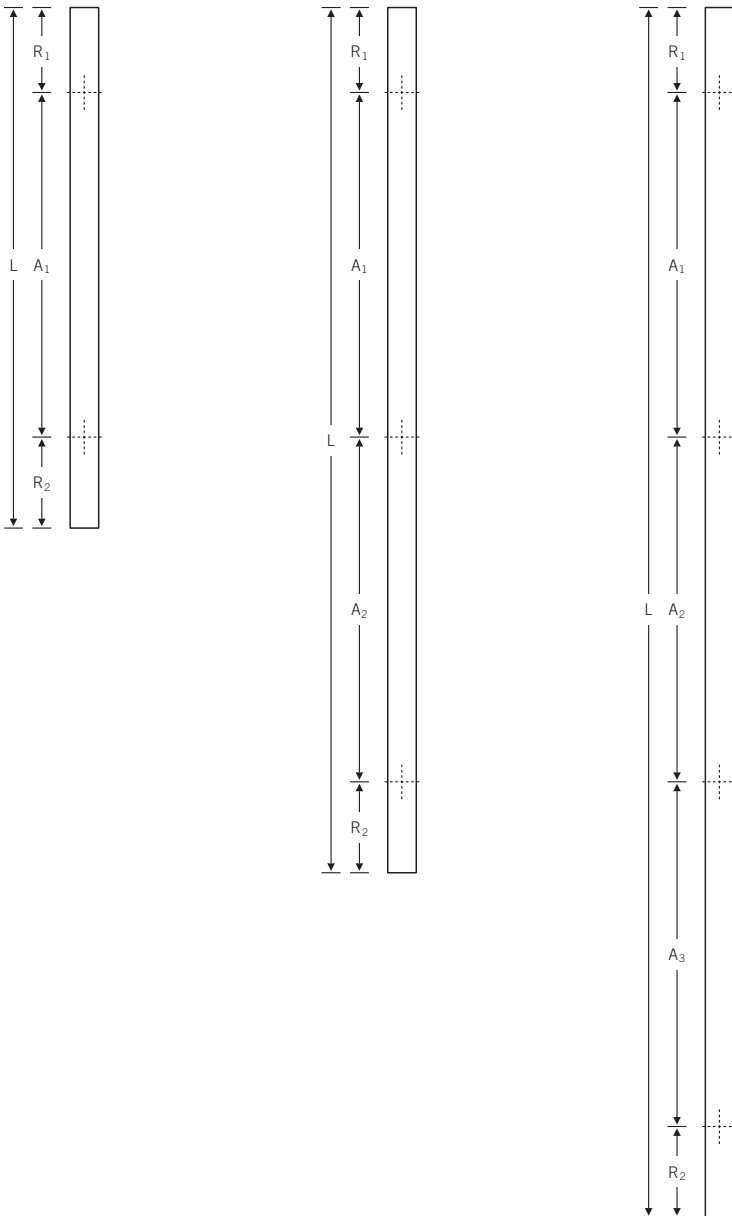


Pull cross-section □ 25 × 25 mm
Fixing M8
Standard length 500 mm (also in special lengths; see fax form at side)
Safety clearance S = 46 mm
(see page 495)

Illustration on left shows a special length



fsb.de/666519
fsb.de/666520



Please use a copy of this page to order the door pull series 66 6519 or 66 6520 in variable lengths:

Start by using the product numbers to define the desired version. Then, in the table below, enter the quantity and overall length.

Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm.

66 6519 099 (□ 25 mm)



66 6520 099 (□ 25 mm)



5a

Quantity	Overall length L	Support clearance			Edge clearance*		Fixing type
		A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 30 mm, max. 350 mm

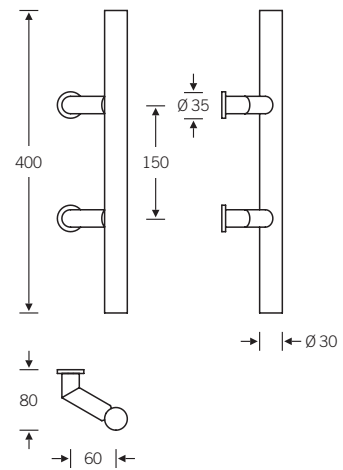
Door pulls round

For technical information see page 560f.

66 6630 ■



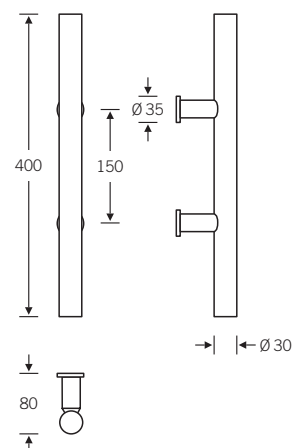
Pull cross-section \varnothing 30 mm
Fixing M8
Standard length 400 mm (also in special lengths; see fax form at side)



66 6681 ■ ■



Pull cross-section \varnothing 30 mm
Fixing M8
Standard length 400 mm (also in special lengths; see fax form at side)
Safety clearance $S = 38$ mm
(see page 495)



fsb.de/666630
fsb.de/666681



..00

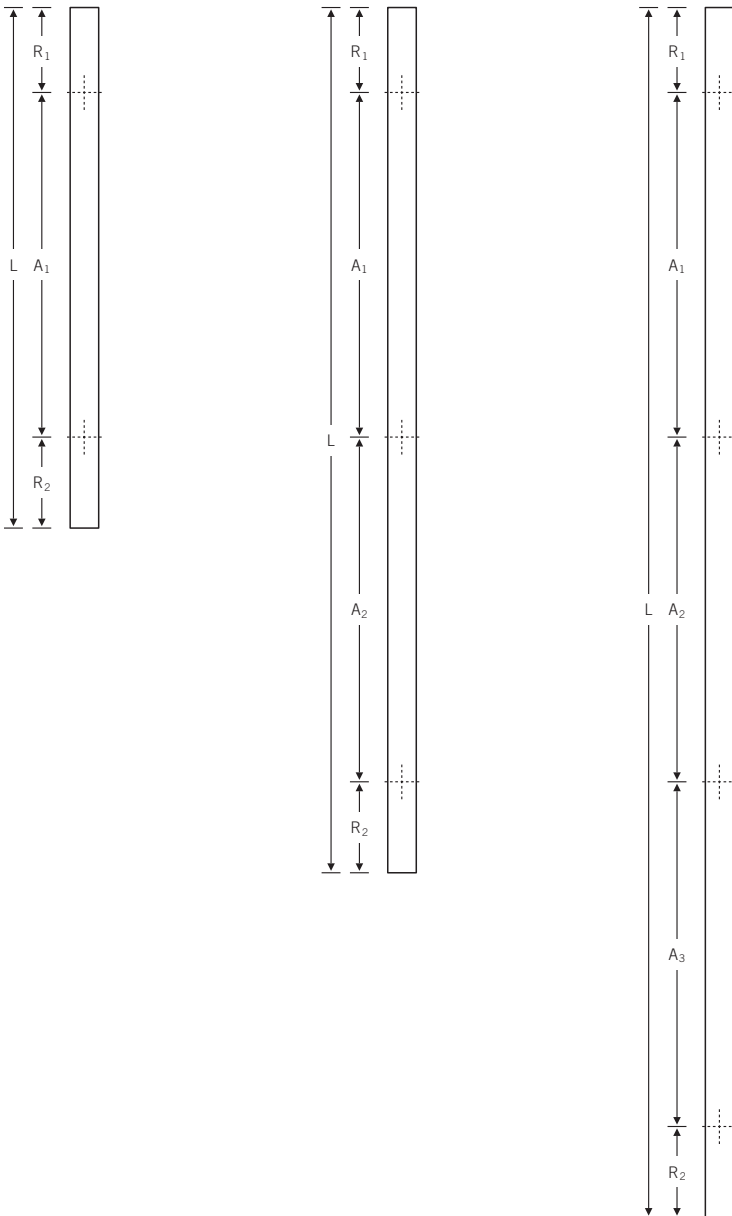


..10



..20

FSB offers two additional locks as special versions for these stainless steel pulls: one flat arched (10) and one offset straight cap (20).



Please use a copy of this page to order the door pull series 66 6681 or 66 6630 in variable lengths:

Start by defining the desired version with the pull diameter. Then enter the quantity and overall length in the table below.

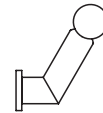
Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm. Finally, cross the desired end cap for the standard versions of Ø 30 mm (stainless steel only).

66 6529 (Ø 25 mm)

66 6630 (Ø 30 mm)

66 6531 (Ø 35 mm)

66 6532 (Ø 40 mm)

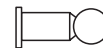


66 6580 (Ø 25 mm)

66 6681 (Ø 30 mm)

66 6582 (Ø 35 mm)

66 6583 (Ø 40 mm)




5a

Quantity	Overall length L	Cap for 66 6681 / 66 6630			Support clearance			Edge clearance*		Fixing type
		..00	..10	..20	A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 30 mm, max. 350 mm

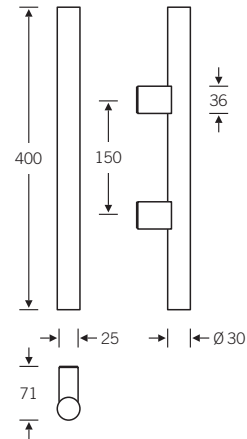
Door pulls round


For technical information see page 560f.

66 6642 



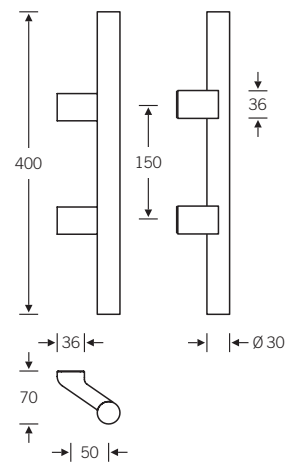
Pull cross-section \varnothing 30 mm
Supports: Aluminium natural-coloured
Grip section: Aluminium or stainless steel
Standard length 400 mm
Fixing M6
Safety clearance $S = 38$ mm
(see page 495)



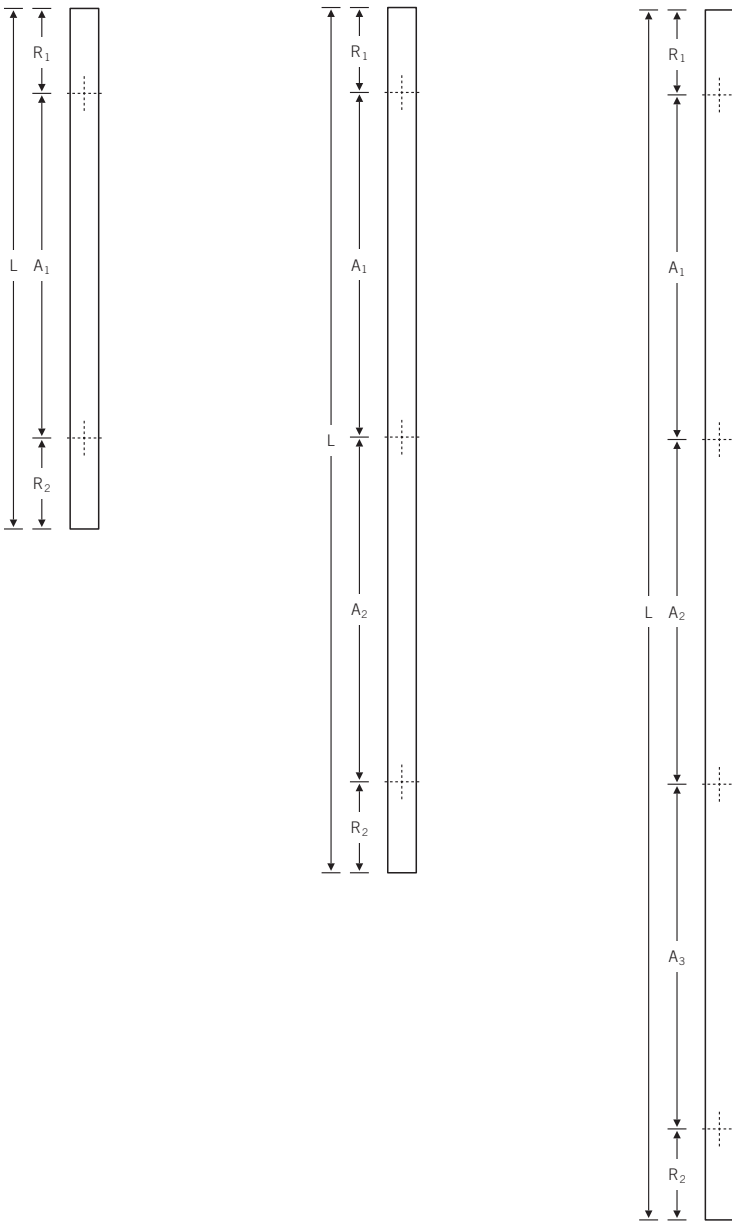
66 6643 



Pull cross-section \varnothing 30 mm
Supports: Aluminium natural-coloured
Grip section: Aluminium or stainless steel
Standard length 400 mm
Fixing M6



fsb.de/666642
fsb.de/666643



Please use a copy of this page to order the door pull series 66 6642 or 66 6643 in variable lengths:

Start by using the product numbers to define the desired version. Then enter the quantity and overall length in the table below.

Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm.

66 6642 (Ø 30 mm)



66 6643 (Ø 30 mm)



5a

Quantity	Overall length L	Support clearance			Edge clearance*		Fixing type
		A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 30 mm, max. 350 mm

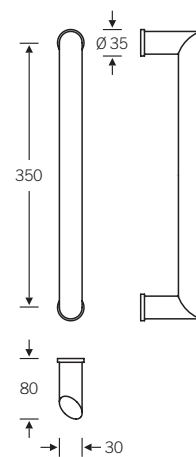
Door pull oval

For technical information see page 560f.

66 6650 ■

Product no.	A	Ø
66 6650 038	350	36 × 22
66 6650 099	351-1500	36 × 22

Fixing M8
Safety clearance S = 49 mm
(see page 495)



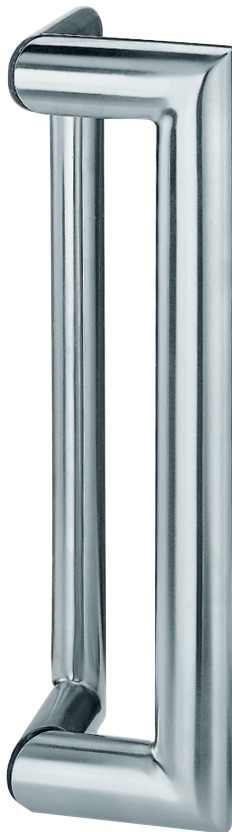
fsb.de/666650

Door pull oval

For technical information see page 560f.

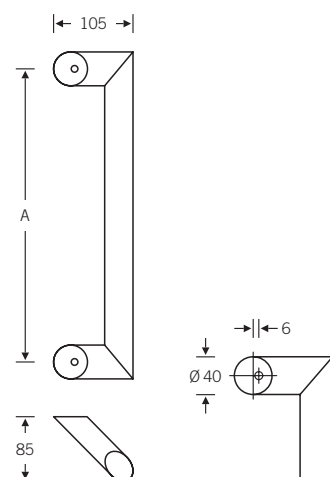
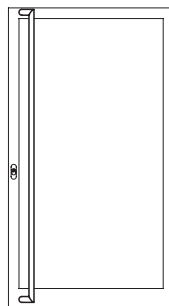
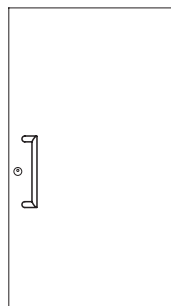
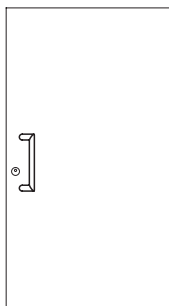
66 6635 ■

Product no.	A	Ø
66 6635 038	350	40 × 28
66 6635 045	450	40 × 28
66 6635 099	451–2100	40 × 28



The door pull design FSB 66 6635 was the first product in FSB's oval series. A comfortable oval tube (Ø 40 × 28 mm) is to be aligned ergonomically so that the hand can grip safely and efficiently. This aim was achieved by mitre welding the pull and support at a 90° angle. This provided a counterpoint to the soft bends of the pull design in round tubes.

5a



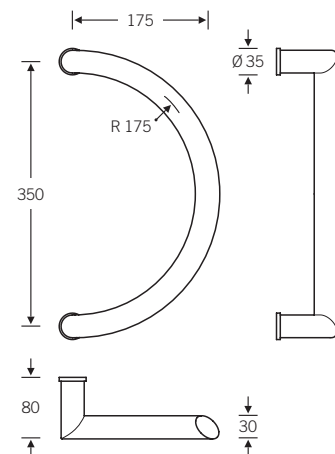
fsb.de/666635

Door pull oval

For technical information see page 560f.

66 6652 ■

Pull cross-section $\varnothing 36 \times 22$ mm
Fixing M8
Safety clearance $S = 53$ mm
(see page 495)



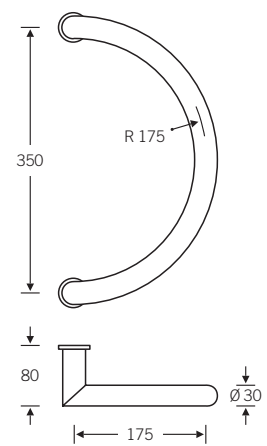
fsb.de/666652

Door pull round

For technical information see page 560f.

66 6653 ■

Pull cross-section \varnothing 30 mm
Fixing M8
Safety clearance S = 55 mm
(see page 495)



5a

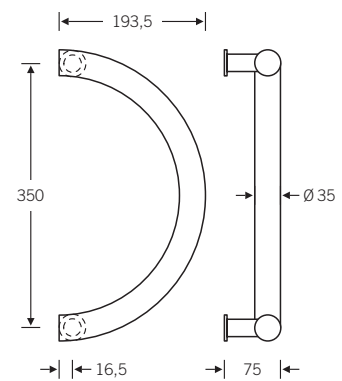
fsb.de/666653

Door pull round

For technical information see page 560f.

66 6655 

Pull cross-section \varnothing 35 mm
Fixing M8
Safety clearance $S = 55$ mm
(see page 495)



fsb.de/666655

Door pull round

For technical information see page 560f.

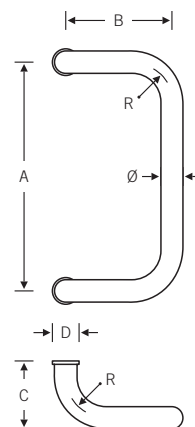
66 6662 



Product no.	A	Ø	R	B	C	D	S
66 6660 034	200	20	25	100	75	30	41
66 6661 034	200	25	40	100	80	35	42
66 6661 037	300	25	40	100	80	35	42
66 6661 038	350	25	40	100	80	35	42
66 6662 038	350	30	55	140	90	35	43
66 6663 038	350	35	60	140	95	45	45
66 6664 038	350	40	60	150	120	45	52
66 6661 099	200–1200	25	40	100	80	35	42
66 6662 099	300–1200	30	55	140	90	35	43
66 6663 099	300–1200	35	60	140	95	45	45
66 6664 099	350–1200	40	60	150	120	45	52

Bronze only in Ø 30 mm (66 6662 038)
Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8

5a



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fsb.de/666661
fsb.de/666662
fsb.de/666663
fsb.de/666664

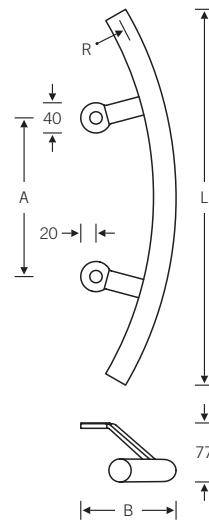
S | Safety clearance (see page 495)

Door pull round

For technical information see page 560f.

66 6674 ■

Product no.	A	∅	R	B	L
66 6674 021	210	30	485	126	497
66 6674 035	350	30	1420	123	742



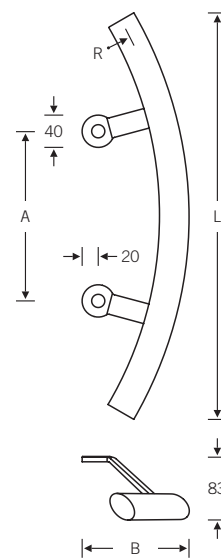
fsb.de/666674

Door pull oval

For technical information see page 560f.

66 6675 ■

Product no.	A	Ø	R	B	L
66 6675 021	210	40 × 28	485	132	504
66 6675 035	350	40 × 28	1420	129	745



5a

fsb.de/666675

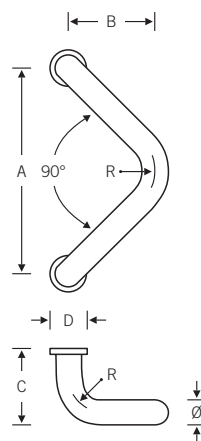
Door pull round

For technical information see page 560f.

66 6679 

Product no.	A	Ø	R	B	C	D	S
66 6649 034	200	20	25	90	75	30	41
66 6679 034	200	25	40	83	80	35	42
66 6679 037	300	25	40	133	80	35	42
66 6679 038	350	25	40	158	80	35	42
66 6623 038	350	30	55	152	90	35	43
66 6624 038	350	35	60	150	95	45	45

Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8



fsb.de/666623
fsb.de/666624
fsb.de/666649
fsb.de/666679

S | Safety clearance (see page 495)

Door pull round

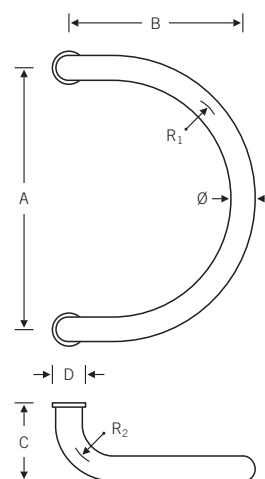
For technical information see page 560f.

66 6683 

Product no.	A	Ø	R1	R2	B	C	D	S
66 6626 034	200	20	100	25	130	75	30	41
66 6673 034	200	25	100	40	140	80	35	42
66 6673 037	300	25	150	40	190	80	35	42
66 6673 038	350	25	175	40	215	80	35	42
66 6683 038	350	30	175	55	230	90	35	43
66 6659 038	350	35	175	60	235	95	45	45
66 6678 038	350	40	175	60	235	120	45	52

Bronze only in Ø 30 mm (66 6683 038)

Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8



5a

fsb.de/666626
fsb.de/666659
fsb.de/666673
fsb.de/666678
fsb.de/666683

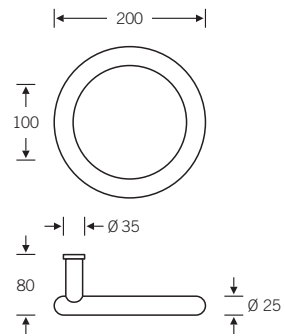
S | Safety clearance (see page 495)

Door pulls round

For technical information see page 560f.

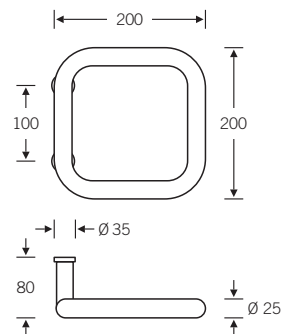
66 6677 ■

Pull cross-section \varnothing 25 mm
Fixing M8
Safety clearance $S = 65$ mm
(see page 495)



66 6688 ■

Pull cross-section \varnothing 25 mm
Fixing M8
Safety clearance $S = 48$ mm
(see page 495)

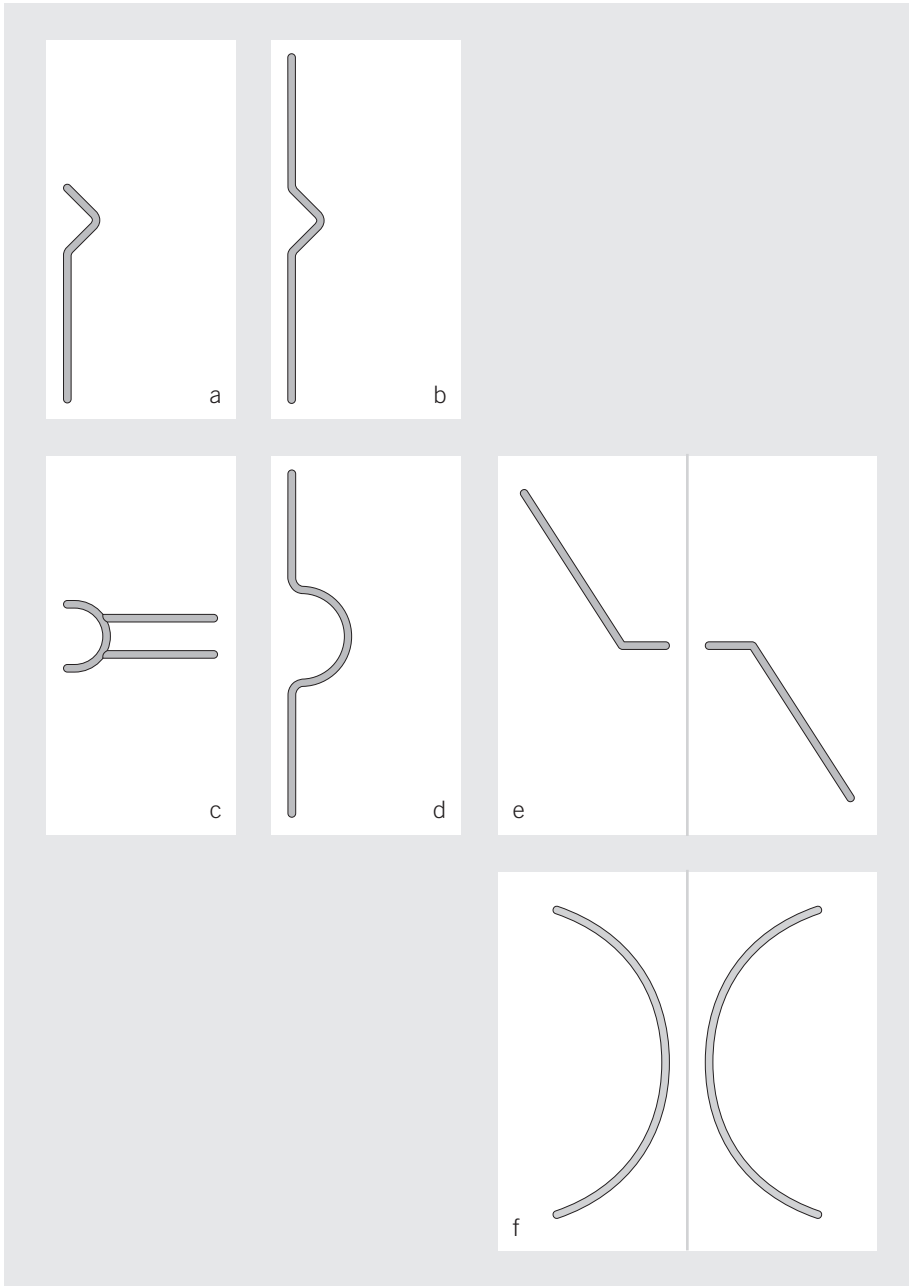


fsb.de/666677
fsb.de/666688

Design suggestions

Pull series round

For technical information see page 560f.



The sketched pull constructions in the material stainless steel are intended as an inspiration to planners, designers, retailers and builders.

When sending an enquiry, please state the door type, material and weight. Accurate drawings are essential for an offer and for manufacture.

Directions see page 738f.

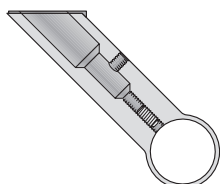
5a



The hs modular system of grip sections and supports addresses the issue of individual design choice and functional requirements with a new and unique approach. The round grip sections in stainless steel are available in a diameter of 30 or 25 mm in standard lengths, and in special lengths on enquiry.

The corresponding 45° cranked aluminium supports are anodised in grey, and are mounted securely using a special fixing system.

Design options result from the varying lengths of the grip sections and the free choice and arrangement of the supports. Emphasising the pull ends with one or two supports and positioning the middle supports as desired makes the pull an individual feature and design element for the main door.



After determining the position and spacing, the supports are attached securely to the grip section by means of an internal screw connection (see ill.).

The alignment of the supports is achieved by placing the pull on a level surface once the first support has been secured, and then attaching the remaining supports with the pull in this position.

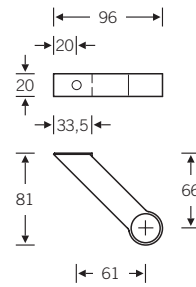
Modular system hs round

Supports + grip sections

For technical information see page 560f.

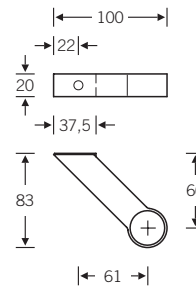
66 6710 ■

Support for grip section 66 6810
Ø 25 mm



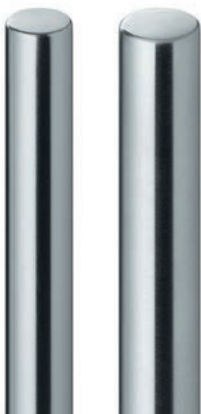
66 6711 ■

Support for grip section 66 6811
Ø 30 mm



5a

66 681. ■



Product no.	Length	Ø grip section
66 6810 00450	450	25
66 6810 00600	600	25
66 6810 00900	900	25
66 6810 01800	1800	25
66 6811 00450	450	30
66 6811 00600	600	30
66 6811 00900	900	30
66 6811 01800	1800	30

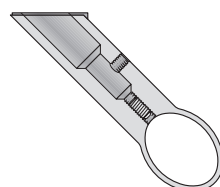
fsb.de/666710
fsb.de/666711
fsb.de/666810
fsb.de/666811



The hs modular system of grip sections and supports addresses the issue of individual design choice and functional requirements with a new and unique approach. The oval grip sections in stainless steel are available in a diameter of 36.5 × 22 or 40 × 28.5 mm in standard lengths, and in special lengths on enquiry.

The corresponding 45° cranked aluminium supports are anodised in grey, and are mounted securely using a special fixing system.

Design options result from the varying lengths of the grip sections and the free choice and arrangement of the supports. Emphasising the pull ends with one or two supports and positioning the middle supports as desired makes the pull an individual feature and design element for the main door.



After determining the position and spacing, the supports are attached securely to the grip section by means of an internal screw connection (see ill.).

Modular system hs oval

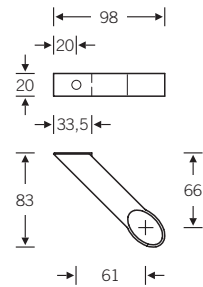
Supports + grip sections

For technical information see page 560f.

66 6712 ■



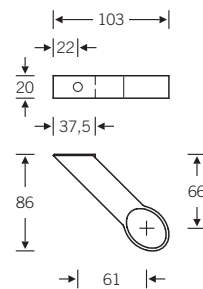
Support for grip section 66 6812
 \varnothing 36.5 × 22 mm



66 6713 ■



Support for grip section 66 6813
 \varnothing 40 × 28.5 mm



5a

66 681. ■



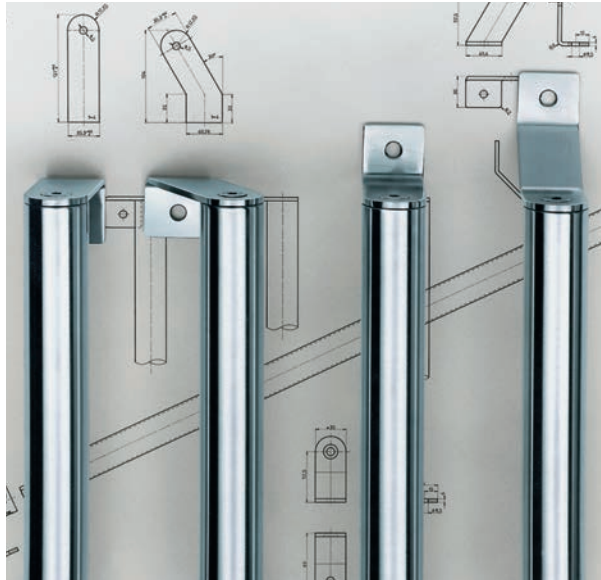
Product no.	Length	\varnothing grip section
66 6812 00450	450	36.5 × 22
66 6812 00600	600	36.5 × 22
66 6812 00900	900	36.5 × 22
66 6812 01800	1800	36.5 × 22
66 6813 00450	450	40 × 28.5
66 6813 00600	600	40 × 28.5
66 6813 00900	900	40 × 28.5
66 6813 01800	1800	40 × 28.5

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 fsb.de/666713
 fsb.de/666812
 fsb.de/666813

Modular system ht round

up to 1500 mm

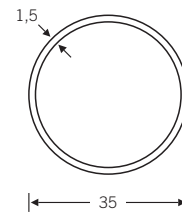
For technical information see page 560f.



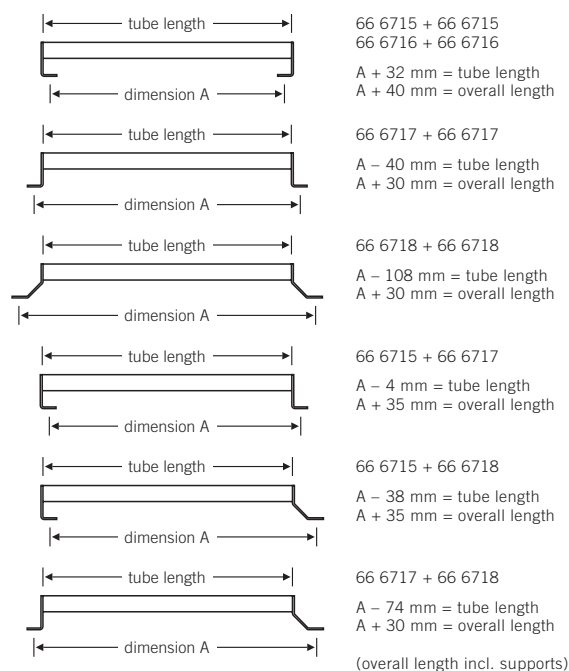
66 6801 ■

Tube $\varnothing 35 \times 1,5$ mm
Ex works length 3000 mm

The ht round modular system enables the user to measure up pull systems, wall attachments, protective bars etc. on site from our tubes and the corresponding supports with the appropriate tools, and to manufacture them up to a dimension A of 1500 mm and attach them. From a dimension A of 1500 mm, we recommend the factory-welded version FSB 66 6522, see page 504. For dimensions A that are greater than 2100 mm, FSB provides 66 6523 (see page 505) – also factory-welded.



Cut lengths and support combinations:



The terms tube length and dimension A are important for manufacture, fixing and ordering. Dimension A defines the fixing distance from the middle of the screw hole of one support to the middle of the screw hole of the other one. The tube length is the result of dimension A plus or minus the dimensional differences to the side.

FSB recommends armoured door pulls from the ht round modular system that are to be used in areas with heavy traffic with the offered accessories.

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The structural requirements and local conditions are to be taken into account when using ht round (for self assembly or in the factory-welded version). These pulls are not a substitute for gymnastic bars,

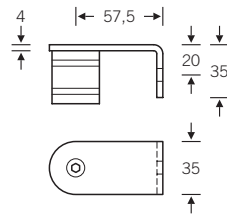
and must not be used as falling protection on hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details of fixing technology see page 560f.

Modular system ht round up to 1500 mm

For technical information see page 560f.

66 6715 ■

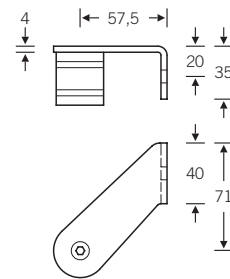
Support straight, flap angled 90° to the inside, to fit tube Ø 35 × 1.5 mm



66 6716 ■

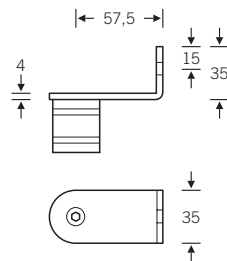
66 6716 014 (R)
66 6716 015 (L)

Support cranked 45°, flap angled 90° to the inside, to fit tube Ø 35 × 1.5 mm, illustration: right



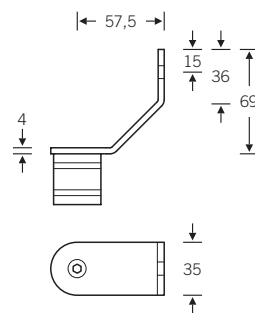
66 6717 ■

Support straight, flap angled 90° to the outside, to fit tube Ø 35 × 1.5 mm



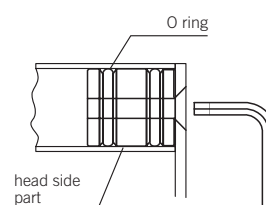
66 6718 ■

Support for swing doors, to fit tube Ø 35 × 1.5 mm



fsb.de/666715
fsb.de/666716
fsb.de/666717
fsb.de/666718

Screw hole Ø 8.5 mm
Safety clearance S = 52 mm
(see page 495)



After cutting the tube length (dimension A +/- difference) the rawbolts for the chosen supports are inserted in the tube ends and screwed securely to the head end.

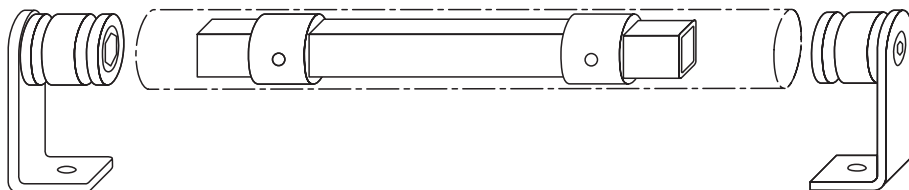
Modular system ht round

Accessories

For technical information see page 560f.

FSB recommends armouring door pulls from the ht round modular system for use on doors with heavy traffic or with a dimension A of 1500–2100 mm with the accessories on this page – or better still, opting for the factory-welded versions FSB 66 6522 or 66 6523 (see page 504f.).

Fixing information: cut steel tube to length: external tube length minus 100 mm. Position spacer sleeves along the steel tube at intervals of 350 mm and secure. Then fit.

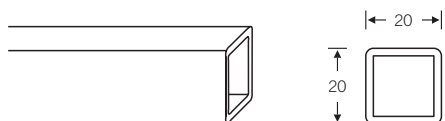


66 6801

Steel tube, hot dip galvanised

66 6801 02020

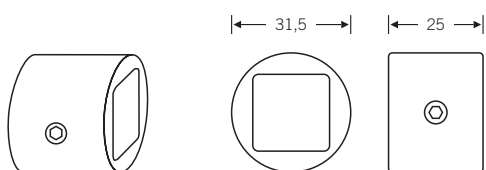
20 × 20 × 2 mm
Ex works length 3000 mm



66 6719

Plastic

Spacer sleeve with fixing screw



05 03..



05 0313 00880 (M8 × 80 mm)
Grub screw



05 0316 00840 (M8)
Wooden grub screw



05 0320 00800 (M8)
Cap nut in stainless steel

fsb.de/666801
fsb.de/666719
fsb.de/050313
fsb.de/050316
fsb.de/050320

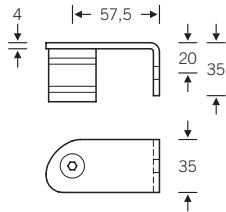
Modular system ht oval Supports

For technical information see page 560f.

66 6735 ■

66 6735 004 (R)
66 6735 005 (L)

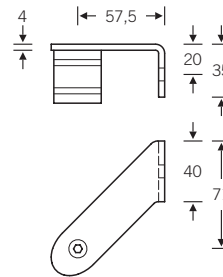
Support straight, flap angled 90°
to the outside, to fit oval tube
Ø 40 × 28 × 1.5 mm



66 6736 ■

66 6736 014 (R)
66 6736 015 (L)

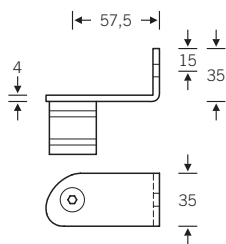
Support cranked 45°, flap angled 90°
to the inside, to fit oval tube
Ø 40 × 28 × 1.5 mm



66 6737 ■

66 6737 004 (R)
66 6737 005 (L)

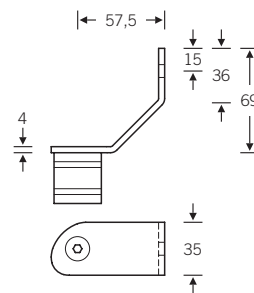
Support straight, flap angled 90°
to the outside, to fit oval tube
Ø 40 × 28 × 1.5 mm



66 6738 ■

66 6738 004 (R)
66 6738 005 (L)

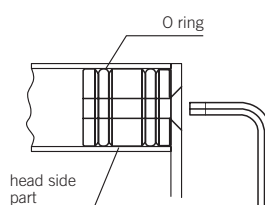
Support for swing doors,
to fit oval tube, Ø 40 × 28 × 1.5 mm



fsb.de/666735
fsb.de/666736
fsb.de/666737
fsb.de/666738

Screw hole Ø 8.5 mm
Safety clearance S = 52 mm
(see page 495)

all illustrations right



After cutting the tube length (dimension A +/- difference) the rawbolts for the chosen supports are inserted in the tube ends and screwed securely to the head end.

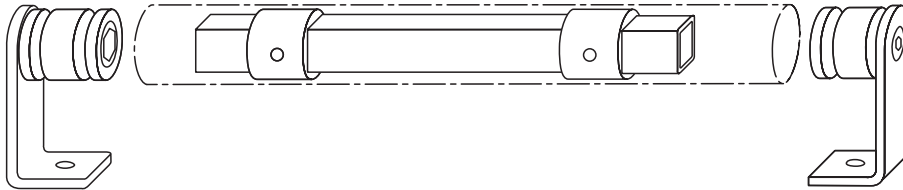
Modular system ht oval

Accessories

For technical information see page 560f.

FSB recommends armouring door pulls from the ht oval modular system that are to be used in areas with heavy traffic or with a dimension A of 1500–2100 mm with the accessories offered on this page – or better still, to opt for the factory-welded version FSB 66 6524 (see page 433).

Fixing information: cut steel tube to length: external tube length minus 100 mm. Position spacer sleeves along the steel tube at intervals of 350 mm and secure. Then fit.

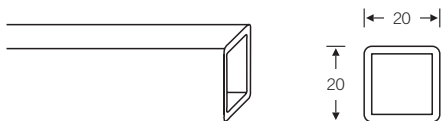


66 6801

Steel tube, hot dip galvanised

66 6801 02020

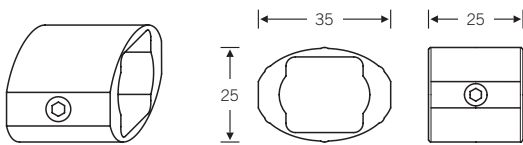
20 × 20 × 2 mm
Ex works length 3000 mm



66 6739

Plastic

Spacer sleeve with fixing screw



05 03..



05 0313 00880 (M8 × 80 mm)
Grub screw

05 0316 00840 (M8)
Wooden grub screw

05 0320 00800 (M8)
Cap nut in stainless steel

fsb.de/666801
fsb.de/666739
fsb.de/050313
fsb.de/050316
fsb.de/050320

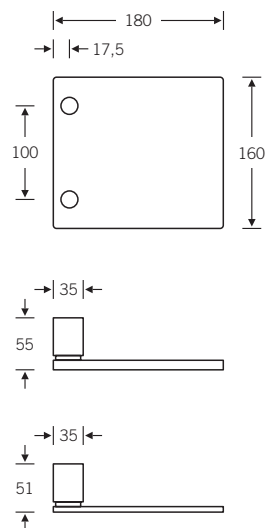
Push/pull pad handles


For technical information see page 560f.

61 6108 

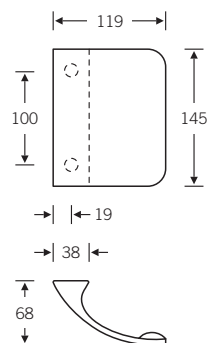
Available versions:
Support: Alu. | Pull plate: Alu.
Support: Alu. | Pull plate: Stainless steel

Fixing M8



61 6112 

Fixing M6



fsb.de/616108
fsb.de/616112

Fixing accessories see page 714f.

S-Flat push/pull pad handle

Square + circle

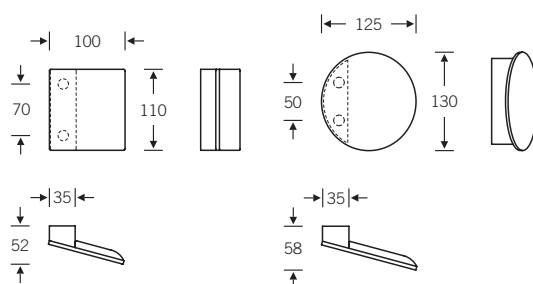
For technical information see page 560f.

61 6186 | 61 6191 ■

61 6186
Supports powder-coated in silver grey

61 6191
Supports powder-coated in silver grey

Fixing M8



61 6186

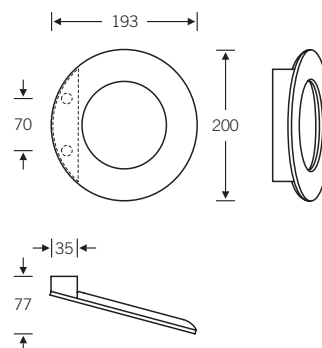
61 6191

5a

61 6194 ■

Round closed
Supports powder-coated in silver grey

Fixing M8

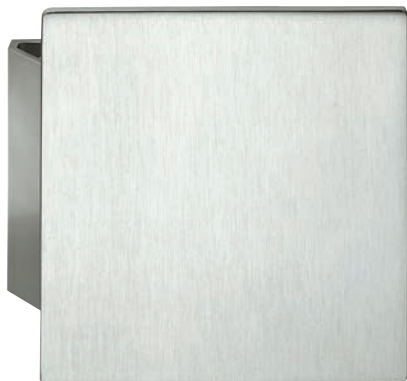


fsb.de/616186
fsb.de/616191
fsb.de/616194

Design: Hartmut Weise

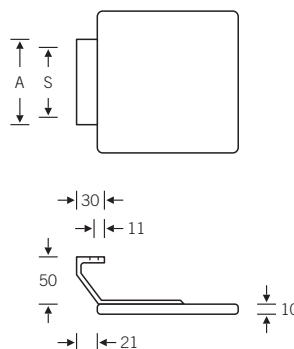
Other S-Flat push/pull pad handles see page 496f.

61 6181 ■



61 6181 00062 (pull plate 150 × 150 mm)
Dimension A = 90 mm
Screw hole clearance S = 70 mm

61 6181 00070 (pull plate 180 × 180 mm)
61 6181 00074 (pull plate 200 × 200 mm)
Dimension A = 120 mm
Screw hole clearance S = 100 mm

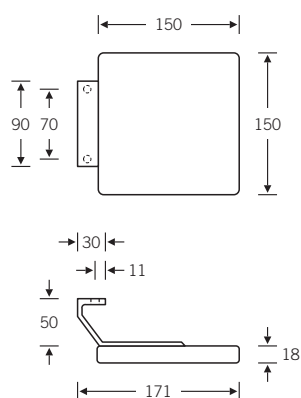


61 6184 ■



61 6184 00062

Plastic pull plate black



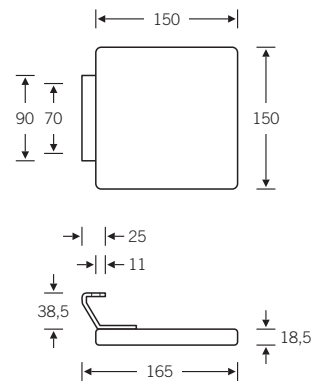
fsb.de/616181
fsb.de/616184

Screw hole \varnothing 8.5 mm (foot),
engravings for 61 6181 see page 392f.

Fixing accessories see page 714f.

61 6254 ■

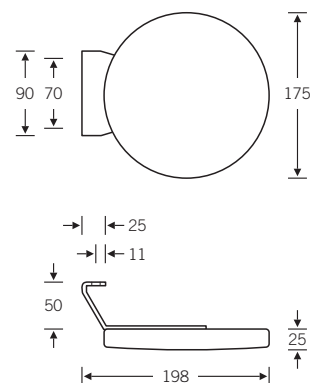
61 6254 00062



5a

61 6268 ■

61 6268 00000



fsb.de/616254
fsb.de/616268

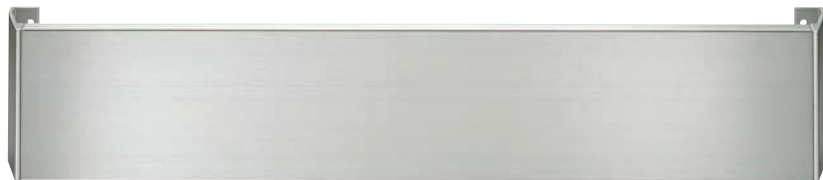
Screw hole \varnothing 8.5 mm (foot),
engravings see page 392f.

Fixing accessories see page 714f.

Pull bars

For technical information see page 560f.

61 6460 ■

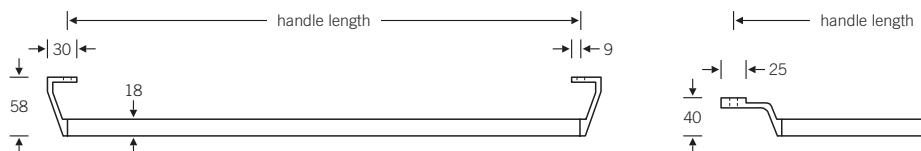


Screw hole \varnothing 6.5 mm (foot)

Product no.	A	B
61 6460 00028	100	70
61 6460 00030	120	100
61 6460 00032	150	120
61 6460 00034	200	170

Cranked support for swing doors:

Product no.	A	B
61 6460 00128	100	70
61 6460 00130	120	100
61 6460 00132	150	120
61 6460 00134	200	170



61 6475 ■

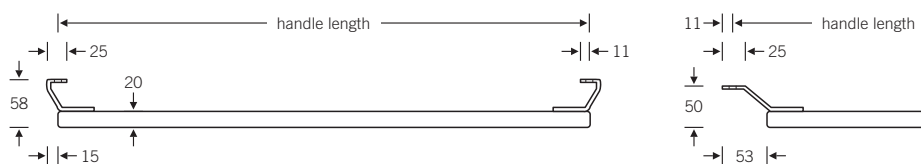
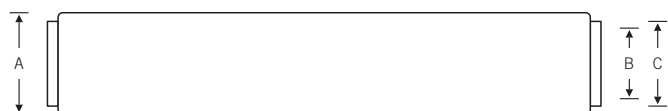


Screw hole \varnothing 8.5 mm (foot)

Product no.	A	B	C
61 6475 00030	120	70	100
61 6475 00032	150	100	120

Cranked support for swing doors:

Product no.	A	B	C
61 6475 00130	120	70	100
61 6475 00132	150	100	120



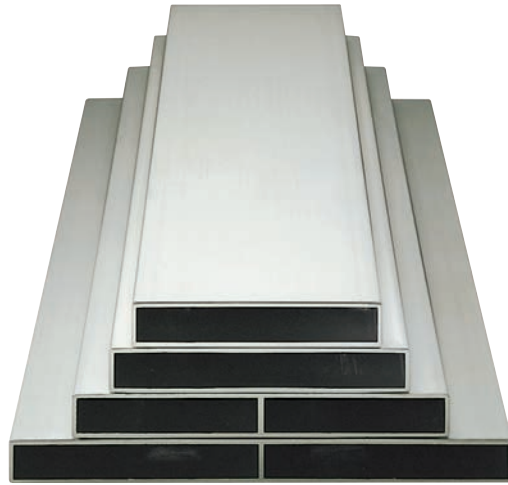
fsb.de/616460
fsb.de/616475

Fixing accessories see page 714f.

Profiles and supports for pull bars

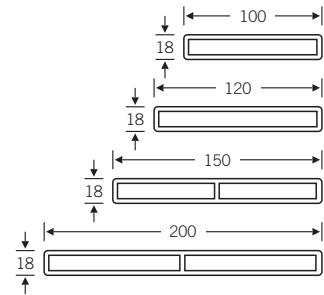
For technical information see page 560f.

61 6840 | 61 6841



61 6840 00128 (100 mm)
61 6840 00130 (120 mm)
61 6841 00132 (150 mm)
61 6841 00134 (200 mm)

The profiles shown here are warehouse lengths of 4000 mm

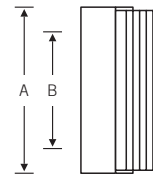
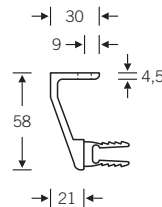


61 6763



Screw hole \varnothing 6,5 mm (foot)

Product no.	A	B
61 6763 00028	100	70
61 6763 00030	120	100
61 6763 00032	150	120
61 6763 00034	200	170

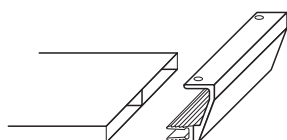
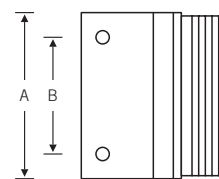
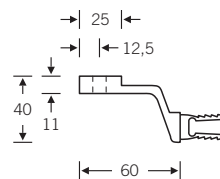


61 6769



Screw hole \varnothing 6,5 mm (foot)

Product no.	A	B
61 6769 00028	100	70
61 6769 00030	120	100
61 6769 00032	150	120
61 6769 00034	200	170



fsb.de/616840
fsb.de/616841
fsb.de/616763
fsb.de/616769


Fixing accessories see page 714f.

Door handles – AGL® half sets with positive mechanism

70 1015 



70 1015 00504 right hand
70 1015 00505 left hand
(round rose)


8 mm  hole
Design FSB 1015

70 1023 



70 1023 00504 right hand
70 1023 00505 left hand
(round rose)

8 mm  hole
Design FSB 1023

70 1070 



70 1070 00504 right hand
70 1070 00505 left hand
(round rose)

8 mm  hole
Design FSB 1070

70 1076 



70 1076 00504 right hand
70 1076 00505 left hand
(round rose)

8 mm  hole
Design FSB 1076

fsb.de/701015
fsb.de/701023
fsb.de/701070
fsb.de/701076

Door handle with AGL® technology for face fixing to main doors, with a solid base construction including positive mechanism. You will find the required half spindles 05 0115 and 05 0116 on page 707.

Door handles – AGL® half sets

Door knob

70 1108 



70 1108 00504 right hand
70 1108 00505 left hand
(round rose)

8 mm □ hole
Design FSB 1108

Similar shaped design with arched grip section: FSB 1107, see page 192f.

70 1163 



70 1163 00504 right hand
70 1163 00505 left hand
(round rose)

8 mm □ hole
Design FSB 1163
ditto, but with rectangular roses
(see page 230f):
70 1163 00604 right hand
70 1163 00605 left hand

70 1183 



70 1183 00604 right hand
70 1183 00605 left hand
(rectangular rose)

8 mm □ hole
Design FSB 1183

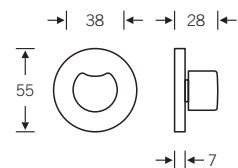
Other designs with rectangular rose:
70 1003 0060., see page 116f. and
70 1004 0060., see page 118f.,
all with 8 mm □ hole

03 0418 



03 0418 00603
8 mm □ hole
Standard spindle projection 40 mm,
individual spindle projections possible

Easy-running turning knob on a round rose for concealed face fixed attachment to multiple point locks



fsb.de/701108
fsb.de/701163
fsb.de/701183
fsb.de/030418

Door handle with AGL® technology for face fixing to main doors, with a solid base construction including positive mechanism. You will find the required half spindles 05 0115 and 05 0116 on page 707.

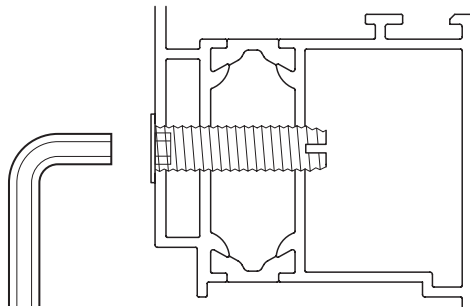
FSB door pull attachment with self-tapping insert



FSB's self-tapping insert technology offers a practice-orientated and yet improved solution for concealed face fixed door pull attachments to wooden, aluminium and plastic doors that nonetheless guarantees a far more effective absorption of withdrawal forces by the door profile.

Irrespective of the door thickness or profile type, only a self-tapping insert of 34 mm length will be used.

As it is inserted, the self-tapping thread creates the optimum connection between door profile and self-tapping insert with comparatively minor tolerances that ensures an even and effective traction – as long as a precise drill hole of \varnothing 12.5 mm has been provided for wooden doors and \varnothing 13 mm for metal and plastic doors.



First step

Carry out the mechanical and the manual drills for the FSB self-tapping insert with a diameter of 12.5 mm (wooden doors) or 13 mm (metal and plastic doors).

Second step

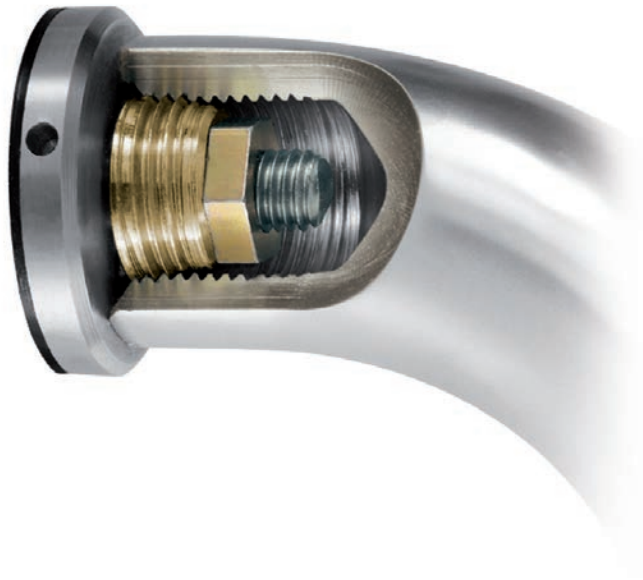
The self-tapping insert is then screwed into place using an SW 8 Allen key. FSB recommends using an Allen key with a knob, as this offers the best possible transmission of the necessary forces. The enclosed grub screw is screwed in once the insert is flush on the profile.

Third step

The pull is then mounted on these fixing points.



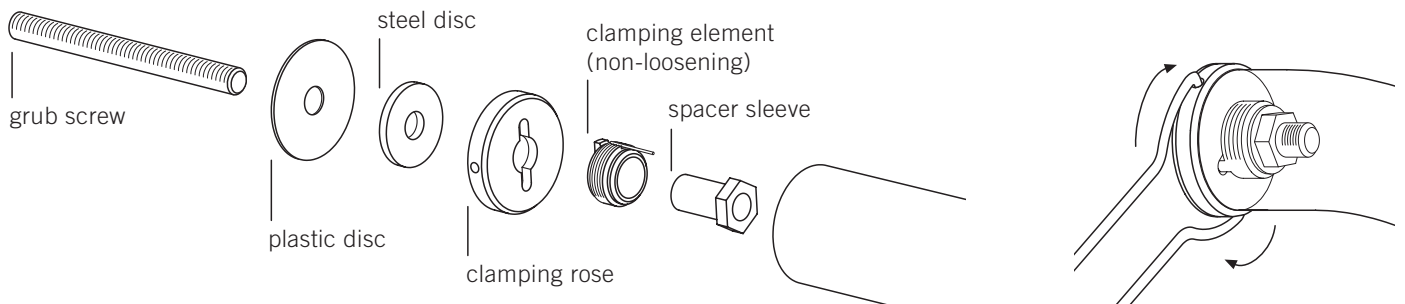
FSB door pull attachment with clamping roses



The FSB fixing rose attachment is a kind of door pull attachment in which the pulls are drawn firmly onto the door surface. There is no requirement for the usually visible fixing screws.

All door pulls with a round base are supplied in the female version with an internal LH thread of 18 × 1.5 mm (fixing M8) or 14 × 1.5 mm (fixing M6). The fixing rose attachment elements consisting of one plastic disc, steel disc, clamping element (non-loosening), turning rose and spacer sleeve are firmly connected in a single unit with a plastic holder and pre-assembled on the pull end. The FSB fixing rose attachment means that any FSB door pull with a round base can be secured tightly to the surface of the door by means of an easy-to-install fixing rose. The radial play included by FSB provides the necessary tolerance offset. Installation is in the following stages:

5a



First step

First, the grub screw is inserted in the door to take up the clamping elements at a later stage. This process is based on the fixing types “back-to-back” or “bolt through” and “face fixing with a self-tapping insert”.

Second step

The clamping elements are then removed from the pull ends by turning them anti-clockwise. The elements are now pulled off the plastic clip, and fed onto the grub screw in the sequence plastic disc, steel disc, clamping rose and clamping element. The spacer sleeve is used to screw the individual components to each other; the clamping rose and clamping element will still rotate.

Third step

Finally, the pull is placed on the fixing points and attached firmly to the surface of the door by alternately rotating the clamping roses in a clockwise direction.

The power wrench for the FSB clamping rose is included in the delivery.

Drilling dimensions

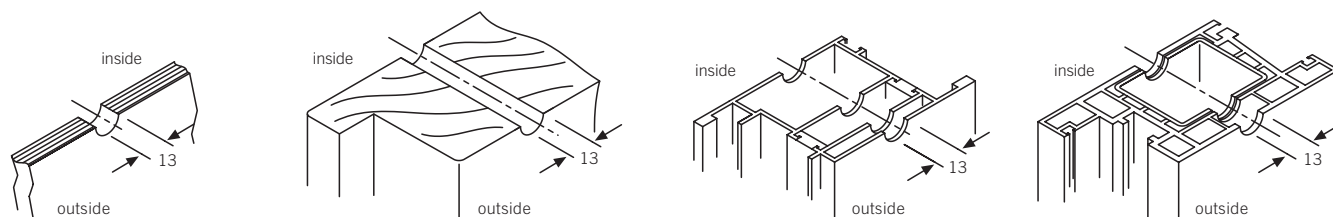
Glass doors

Wooden doors

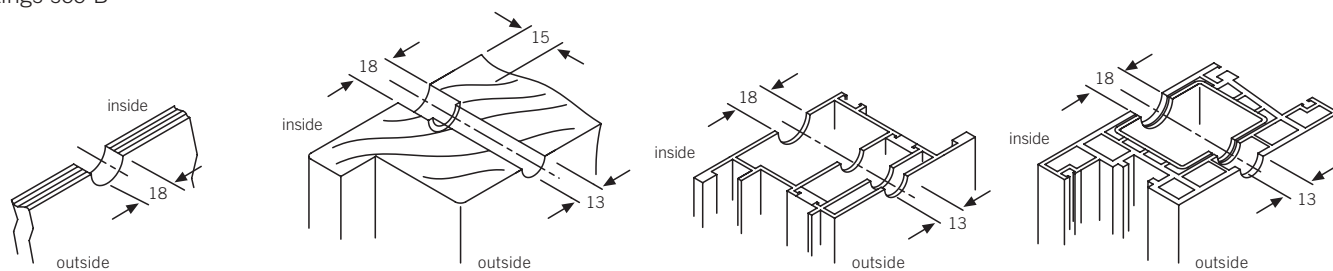
Metal doors

Plastic doors

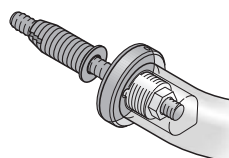
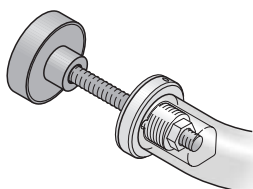
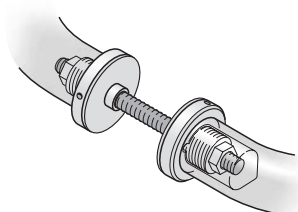
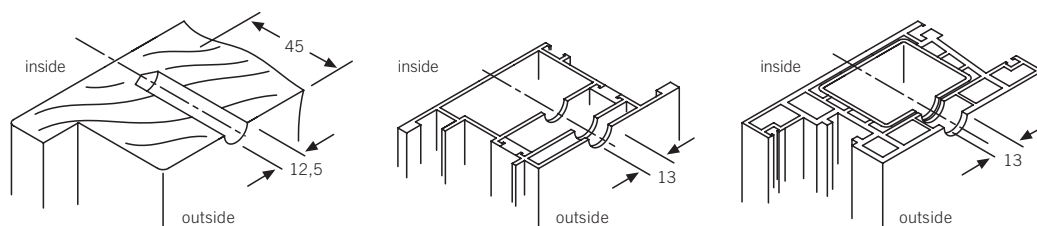
Fixings see A



Fixings see B



Fixings see C



Fixing A

back-to-back fixing:

05 0580, 05 0582, 05 0583, 05 0584,
05 0585, 05 0587, 05 0588

bolt through fixing:

05 0582, 05 0583, 05 0584, 05 0585,
05 0588

Fixing B

bolt through fixing:

05 0580, 05 0587

Fixing C

face fixing with a self-tapping

insert: all fixings

Door pull fixings

Door pull

66 6635

When choosing and ordering the pulls and fixing type, ensure that the pulls in this series are made as the threaded side and as the through side.

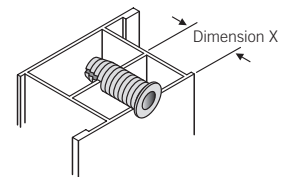
Fixing type	Fixing accessories	Order no.
back-to-back fixing	2 cylinder screw M8 4 plastic washers 2 pull caps in stainless steel	05 0582 01008 Glass door 8 – 10 mm 05 0582 03038 38 – 44 mm 05 0582 03045 45 – 49 mm 05 0582 03050 50 – 54 mm 05 0582 03055 55 – 59 mm 05 0582 03060 60 – 64 mm 05 0582 03065 65 – 69 mm 05 0582 03070 70 – 74 mm 05 0582 03075 75 – 79 mm 05 0582 03080 80 – 84 mm
bolt-through fixing	2 countersunk screws M8 4 plastic washers 2 fixing discs with cover caps in stainless steel	05 0582 02008 Glass door 8 – 10 mm 05 0582 04038 38 – 44 mm 05 0582 04045 45 – 49 mm 05 0582 04050 50 – 54 mm 05 0582 04055 55 – 59 mm 05 0582 04060 60 – 64 mm 05 0582 04065 65 – 69 mm 05 0582 04070 70 – 74 mm 05 0582 04075 75 – 79 mm 05 0582 04080 80 – 84 mm
face fixing with a self-tapping insert	2 cylinder screw M8 2 plastic washers 2 self-cutting inserts made of hardened steel, galvanised 2 pull caps stainless steel	05 0582 00335 Dimension X 10 – 30 mm Dowel length 34 mm

Drill Ø 13 mm

Drill Ø 13 mm

Drill Ø 12.5 mm (wooden),
Ø 13 mm (metal/plastic doors)

5a



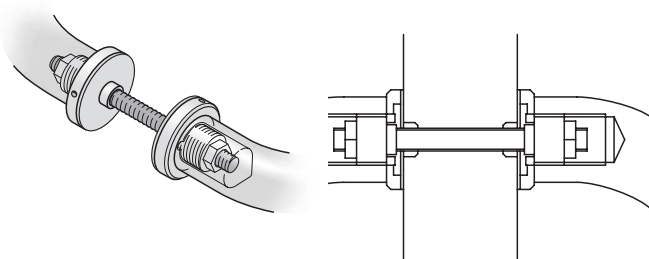
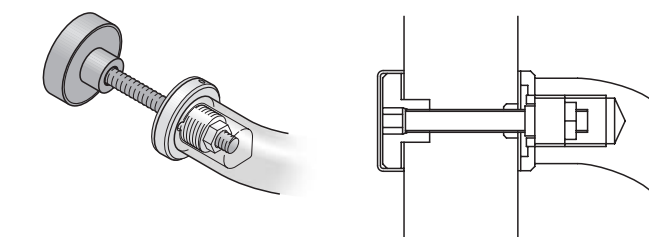
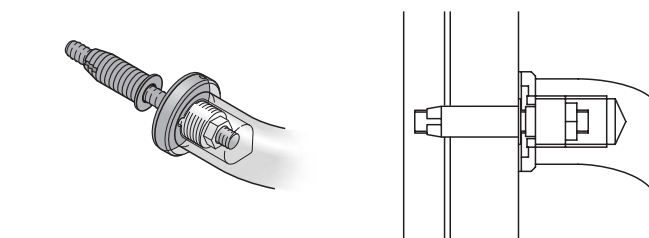
Dimension X = chamber dimension

Door pull fixings

Door pulls round M8

66 6501, 66 6504, 66 6506, 66 6507, 66 6514, 66 6533, 66 6534, 66 6535, 66 6536, 66 6537, 66 6538; 66 6540, 66 6541, 66 6542, 66 6546, 66 6580, 66 6582, 66 6583, 66 6602, 66 6603, 66 6604, 66 6606, 66 6607, 66 6609, 66 6623, 66 6624, 66 6625, 66 6630, 66 6650, 66 6652, 66 6653, 66 6655, 66 6659, 66 6661, 66 6662, 66 6663, 66 6664, 66 6669, 66 6670, 66 6673, 66 6677, 66 6678, 66 6679, 66 6681, 66 6683, 66 6688

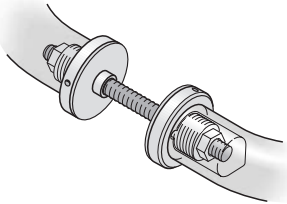
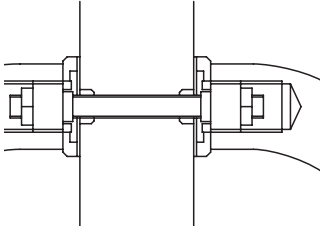
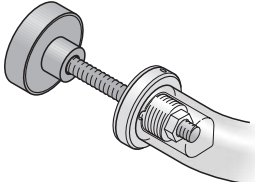
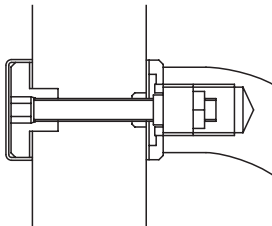
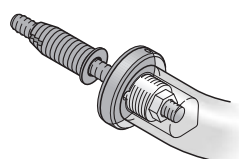
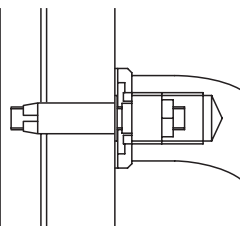
* Fixing technology
isis® F varies,
see www.fsb.de/isis

	Fixing type	Fixing accessories	Order no.
	back-to-back fixing	2 threaded rods M8	05 0580 01008 Glass door 8 – 10 mm
		Drill Ø 13 mm	05 0580 03035 35 – 54 mm 05 0580 03055 55 – 74 mm 05 0580 03075 75 – 94 mm
	bolt-through fixing	2 threaded rods M8 2 fixing nuts with cover caps	Pull diameter 25/30 mm 05 0580 02308 Glass door 8 – 10 mm
		Drill Ø 13/18 mm, see page 562	05 0580 04335 35 – 44 mm 05 0580 04345 45 – 54 mm 05 0580 04355 55 – 64 mm 05 0580 04365 65 – 74 mm 05 0580 04375 75 – 84 mm
	face fixing with a self-tapping insert	2 grub screws M8 2 self-cutting inserts made of hardened steel, galvanised	Pull diameter 35/40 mm 05 0580 02408 Glass door 8 – 10 mm
		Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0580 00335 Dimension X 10 – 30 mm Dowel length 34 mm 05 0580 00336 Dimension X 10 – 41 mm Dowel length 45 mm 05 0580 00337 Dimension X 10 – 54 mm Dowel length 58 mm

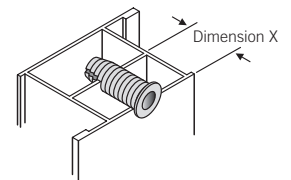
Door pull fixings

Door pulls round M6

36 3688, 66 6610, 66 6611, 66 6612, 66 6613

Fixing type	Fixing accessories	Order no.
  <p>back-to-back fixing</p>	<p>2 threaded rods M6</p> <p>Drill Ø 13 mm</p>	<p>05 0580 01208 Glass door 8 – 10 mm</p> <p>05 0580 03235 35 – 54 mm</p> <p>05 0580 03255 55 – 74 mm</p> <p>05 0580 03275 75 – 94 mm</p>
  <p>bolt-through fixing</p>	<p>2 threaded rods M6</p> <p>2 fixing nuts with cover caps</p> <p>Drill Ø 13/18 mm, see page 562</p>	<p>Pull diameter 20/25 mm</p> <p>05 0580 02208 Glass door 8 – 10 mm</p> <p>05 0580 04235 35 – 44 mm</p> <p>05 0580 04245 45 – 54 mm</p> <p>05 0580 04255 55 – 64 mm</p> <p>05 0580 04265 65 – 74 mm</p> <p>05 0580 04275 75 – 84 mm</p>
  <p>face fixing with a self-tapping insert</p>	<p>2 grub screws M6</p> <p>2 self-cutting inserts made of hardened steel, galvanised</p> <p>Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)</p>	<p>05 0580 00435</p> <p>Dimension X 10 – 30 mm</p> <p>Dowel length 34 mm</p>

5a

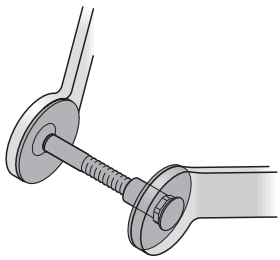
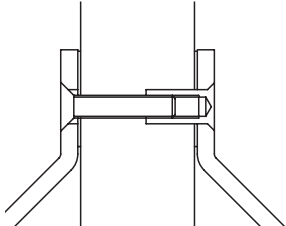
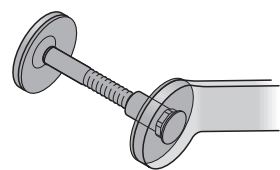
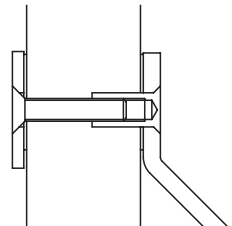
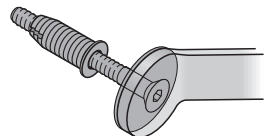
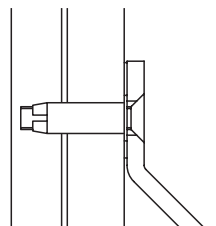


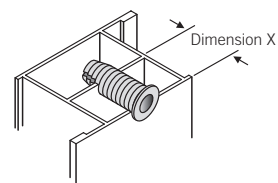
Dimension X = chamber dimension

Door pull fixings

Door pulls

66 6615, 66 6616, 66 6625, 66 6674, 66 6675

	Fixing type	Fixing accessories	Order no.
		2 countersunk screws M8 with sleeve nuts M8 in stainless steel 4 plastic washers Drill Ø 13 mm	05 0583 01008 Glass door 8 – 10 mm
			05 0583 03034 34 – 43 mm 05 0583 03044 44 – 53 mm 05 0583 03054 54 – 63 mm 05 0583 03064 64 – 73 mm 05 0583 03074 74 – 83 mm
		2 countersunk screws M8 with sleeve nuts M8 in stainless steel 2 washers in stainless steel 4 plastic washers Drill Ø 13 mm	05 0583 02008 Glass door 8 – 10 mm
			05 0583 04036 36 – 45 mm 05 0583 04046 46 – 55 mm 05 0583 04056 56 – 65 mm 05 0583 04066 66 – 75 mm 05 0583 04076 76 – 85 mm
		2 countersunk screws M8 in stainless steel 2 self-cutting inserts made of hardened steel, galvanised 2 plastic washers Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0583 00335 Dimension X 10 – 30 mm Dowel length 34 mm



Dimension X = chamber dimension

Door pull fixings

Door pulls

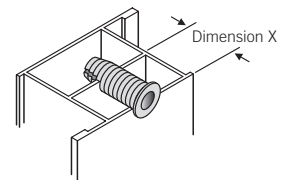
66 6620, 66 6621

Fixing type	Fixing accessories	Order no.
back-to-back fixing	2 countersunk screws M8 with sleeve nuts M8 in stainless steel 4 plastic washers	05 0584 01008 Glass door 8 – 10 mm 05 0584 03035 35 – 44 mm 05 0584 03045 45 – 54 mm 05 0584 03055 55 – 64 mm 05 0584 03065 65 – 74 mm 05 0584 03075 75 – 84 mm
bolt-through fixing	2 countersunk screws M8 with sleeve nuts M8 in stainless steel 2 washers in stainless steel 4 plastic washers	05 0584 02008 Glass door 8 – 10 mm 05 0584 04035 35 – 44 mm 05 0584 04045 45 – 55 mm 05 0584 04055 55 – 65 mm 05 0584 04065 65 – 75 mm 05 0584 04075 75 – 85 mm
face fixing with a self-tapping insert	2 countersunk screws M8 in stainless steel 2 self-cutting inserts made of hardened steel, galvanised 2 plastic washers	05 0584 00335 Dimension X 10 – 30 mm Dowel length 34 mm

Drill Ø 13 mm

Drill Ø 13 mm

Drill Ø 12.5 mm (wooden),
Ø 13 mm (metal/plastic doors)



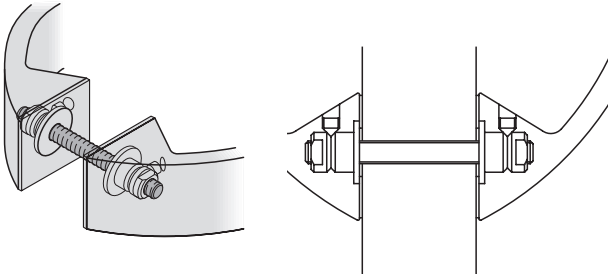
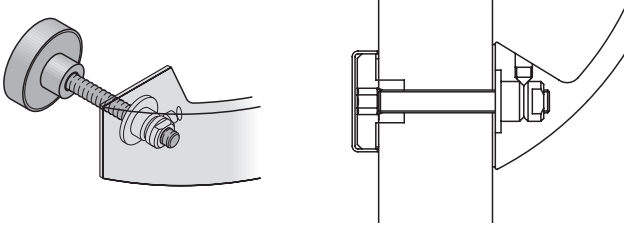
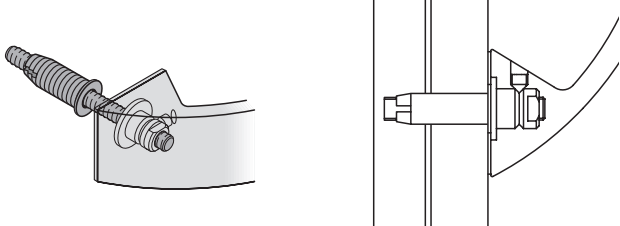
Dimension X =
chamber dimension

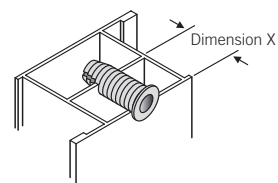
5a

Door pull fixings

Door and push/pull pad handles

61 6108, 61 6186, 61 6187, 61 6188, 61 6189,
61 6190, 61 6191, 61 6192, 61 6193, 61 6194,
61 6195, 66 6519, 66 6520, 66 6526, 66 6548

Fixing type	Fixing accessories	Order no.
 <p>back-to-back fixing</p>	<p>2 threaded rods M8</p> <p>Drill Ø 13 mm</p>	<p>05 0587 01008 Glass door 8 – 10 mm</p> <p>05 0587 03035 35 – 54 mm</p> <p>05 0587 03055 55 – 74 mm</p> <p>05 0587 03075 75 – 94 mm</p>
 <p>bolt-through fixing</p>	<p>2 threaded rods M8</p> <p>2 fixing nuts with cover caps</p> <p>Drill Ø 13/18 mm, see page 562</p>	<p>05 0587 02308 Glass door 8 – 10 mm</p> <p>05 0587 04335 35 – 44 mm</p> <p>05 0587 04345 45 – 54 mm</p> <p>05 0587 04355 55 – 64 mm</p> <p>05 0587 04365 65 – 74 mm</p> <p>05 0587 04375 75 – 84 mm</p>
 <p>face fixing with a self-tapping insert</p>	<p>2 grub screws M8</p> <p>2 self-cutting inserts made of hardened steel, galvanised</p> <p>Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)</p>	<p>05 0587 00335 Dimension X 10 – 30 mm Dowel length 34 mm</p>

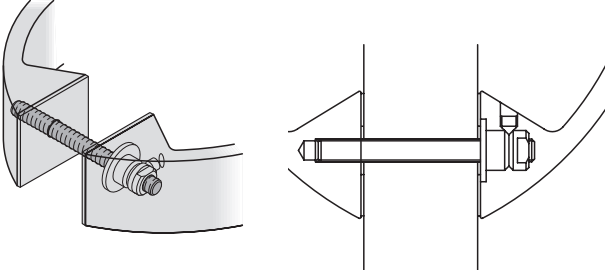
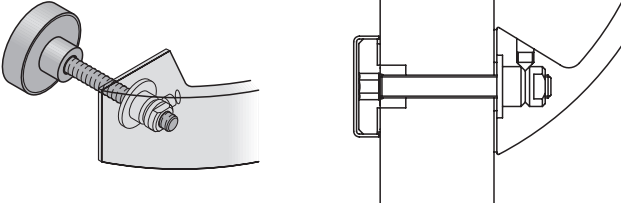
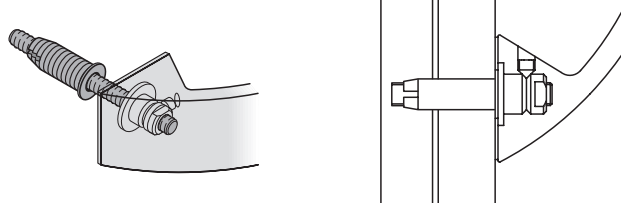


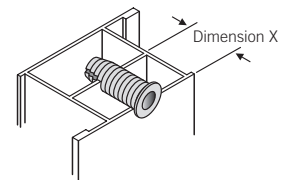
Dimension X =
chamber dimension

Door pull fixings

Door and push/pull pad handles

61 6112, 66 6642, 66 6643

Fixing type	Fixing accessories	Order no.
 <p>back-to-back fixing</p>	<p>2 threaded rods M6</p> <p>Drill Ø 13 mm</p>	<p>05 0580 01208 Glass door 8 – 10 mm</p> <p>05 0580 03235 35 – 54 mm</p> <p>05 0580 03255 55 – 74 mm</p> <p>05 0580 03275 75 – 94 mm</p>
 <p>bolt-through fixing</p>	<p>2 threaded rods M6</p> <p>2 fixing nuts with cover caps</p> <p>Drill Ø 13/18 mm, see page 562</p>	<p>05 0580 02208 Glass door 8 – 10 mm</p> <p>05 0580 04235 35 – 44 mm</p> <p>05 0580 04245 45 – 54 mm</p> <p>05 0580 04255 55 – 64 mm</p> <p>05 0580 04265 65 – 74 mm</p> <p>05 0580 04275 75 – 84 mm</p>
 <p>face fixing with a self-tapping insert</p>	<p>2 grub screws M6</p> <p>2 self-cutting inserts made of hardened steel, galvanised</p> <p>Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)</p>	<p>05 0580 00435</p> <p>Dimension X 10 – 30 mm</p> <p>Dowel length 34 mm</p>



Dimension X = chamber dimension

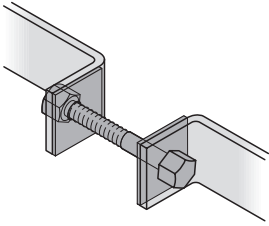
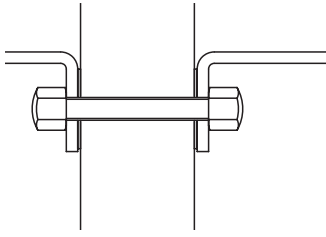
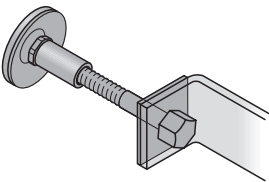
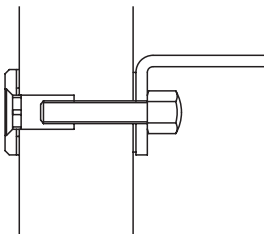
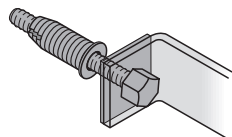
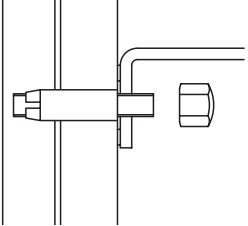
5a

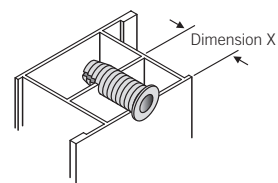
Door pull fixings

Door pull series

Modular system ht oval
Modular system ht round

66 6522, 66 6523, 66 6524, 66 6527

	Fixing type	Fixing accessories	Order no.
		2 threaded rods M8 4 cap nuts M8 in stainless steel 4 plastic washers Drill Ø 13 mm	05 0585 03035 35 – 39 mm
			05 0585 03040 40 – 44 mm
		2 threaded rods M8 2 cap nuts M8 in stainless steel 2 sleeve nuts M8 with washers in stainless steel 4 plastic washers Drill Ø 13 mm	05 0585 02035 35 – 44 mm
			05 0585 02045 45 – 54 mm
		2 grub screws M8 2 cap nuts M8 in stainless steel 2 self-tapping inserts made of hardened steel, galvanised 2 plastic washers Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0585 00335
			Dimension X 10 – 30 mm Dowel length 34 mm



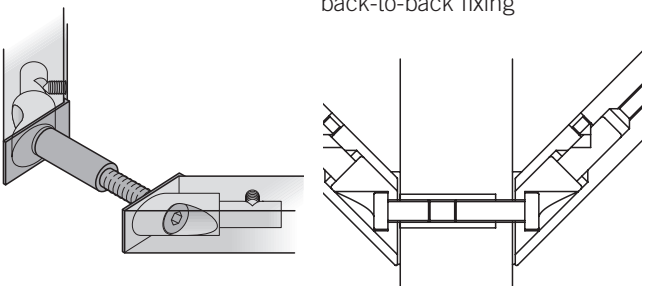
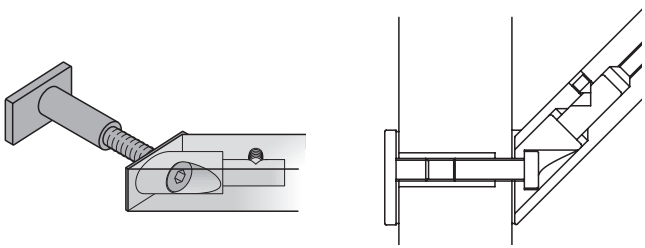
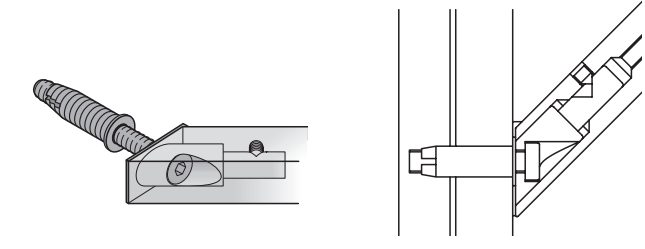
Dimension X =
chamber dimension

Door pull fixings

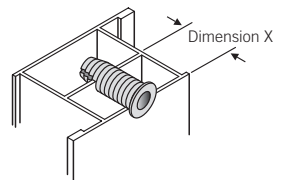
Door pull series

Modular system ht round
66 6710, 66 6711

Modular system ht oval
66 6712, 66 6713

Fixing type	Fixing accessories	Order no.
 <p>back-to-back fixing</p>	1 cylinder screw M8 1 nut 1 plastic sleeve	05 0588 01008 Glass door 8 – 10 mm
	2 cylinder screw M8 1 threaded sleeve	05 0588 03035 35 – 44 mm 05 0588 03045 45 – 54 mm 05 0588 03055 55 – 64 mm 05 0588 03065 65 – 74 mm 05 0588 03075 75 – 84 mm
Drill Ø 13 mm		
 <p>bolt-through fixing</p>	1 nut 1 fixing plate 1 plastic sleeve	05 0588 02008 Glass door 8 – 10 mm
	1 cylinder screw M8 1 threaded sleeve 1 fixing plate	05 0588 04035 35 – 44 mm 05 0588 04045 45 – 54 mm 05 0588 04055 55 – 64 mm 05 0588 04065 65 – 74 mm 05 0588 04075 75 – 84 mm
Drill Ø 13 mm		
 <p>face fixing with a self-tapping insert</p>	1 cylinder screw M8 1 self-tapping insert made of hardened steel, galvanised	05 0588 00335 Dimension X 10 – 30 mm Dowel length 34 mm
	Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	


5a



Dimension X = chamber dimension

575	Design + Security	5b
578	isis [®] M100 security fittings	
580	Security fittings	
594	Security fittings for frame doors	
596	Security roses	
599	Security roses, flush fit	

Overview

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5b

Is your front door open to new experiences? Because: our security fittings in the isis® M100 series transfer the digital building organisation straight to your entrance door (and if you want, from page 45 also inside the building). There is no need to awkwardly handle the key with our isis® systems in any case: simply hold the identification medium in front of the fitting and open the door using the door handle or door knob. Or you can use door pulls together with biometric function. Here the keys are always to hand – namely your fingers. More about isis® F (= Fingerscan) from page 87.

Technical information

Design + Security

Criminal statistics have shown that doors and windows are popular access openings. This is why police crime prevention centres and insurance companies recommend securing doors and windows.

The industry has aligned itself to market requirements. Standards have been developed to help market participants orientate themselves:

the German Industry Standard for burglar-proof windows, doors and additional locks (DIN 18 103) and the German Industry Standard for building hardware and security hardware, terms, dimensions, requirements, tests and labels (DIN 18 257).

EN 1906 and DIN EN 1627 – 1630 were developed at the same time.

FSB's security hardware range in the "Design + Security" series saves architects, interior designers, carpenters and consumers from having to deal with complicated security technology. The matter of taste (design) comes first, and then the matter of understanding (the need for security). And that is why the slogan is "Design + Security". If market participants opt for this solution, then all they have to do after choosing their design is decide whether they want technical security class 2 or 4. FSB will put the chosen security technology in the chosen design package.

Gone are the days when the lowest security class meant having to make do with the most basic design, while the best design was reserved for the highest class. FSB has turned this around. Once the design has been chosen, it is time to bring in the technical expert and then choose the desired security rating.

FSB's design offer is laid out clearly and comprehensively on the following pages. Browse through at your leisure, and then choose whichever design appeals. Next to your design you will find a set of technical questions; all you have to do is tick the ones that apply to you. It could not be simpler. For the technically curious, we provide the low-down on the two security classes overleaf.

Stiftung Warentest, the consumer testing company, thoroughly checked the door locks for issue 07|2009 of "test" magazine. The test items included FSB 73 7376. It shone with a total rating of 1.8 (the lower the rating, the better), becoming the overall winner of the doorplates group (security class 2/ES 1-ZA). The testers felt it was important that lock, locking cylinder and doorplate should form a single unit. The latter makes it more difficult to unscrew, break, pull off or smash through the locking cylinder. It also has to be firmly screwed from the inside and made of a solid material. None of which is a problem for FSB 73 7376: the level of burglary protection resulting from these factors won it a rating of 1.4. What makes this result even more remarkable is that our security class 2 fitting achieved even better results than another company's design of rating 3.

Thanks to the modular concept and standardised layered construction of the Design + Security fittings, the security features of FSB 73 7376 also apply to all other designs in the "Design + Security" programme. Find out more at www.fsb.de/schutzbeschlag-737376

FSB security hardware is supplied for the following door thicknesses as standard:

Room doors	40–42 mm
House doors	67–69 mm
FS doors	53–57 mm

In addition to the standardised protection, FSB offers further burglar-proof components of a preventative nature. These components include:

- round roses in an open version of 12.5 to 16.5 mm height
- round roses with core extraction protection (ZA) of 12.5 to 16.5 mm height
- rectangular roses with core extraction protection (ZA) in 14.5 mm height
- round roses with core extraction protection (ZA) of 12.5 mm height, ready for flush-fit installation
- rectangular and oval roses with core extraction protection (ZA) of 16 mm height
- rectangular and oval adhesive and push-on roses of 3, 7 and 9 mm height

These burglar-proof components have been designed to deter potential burglars and/or provide as much resistance as possible to an attempt to break in.

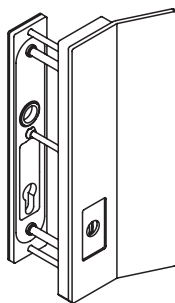


The new security hardware designs FSB 73 7360 and 73 7361 are an entirely new design concept that is based on our proven security technology: following a quite radical, puristic design concept, our in-house designer Hartmut Weise put forward a design for security hardware that no longer has anything in common with traditional concepts. He has made a folded surface sculpture out of 5 mm stainless steel that avoids all compromise in association with the door.

This design, which is only available in security class S4, comes in a classic version and optionally with an integrated electronics package in the form of an electronic doorbell sensor with nameplate and remote doorbell module plus a matching remote control on the inside.

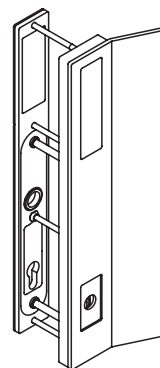


Version 73 7360



fsb.de/737360

Version 73 7361
(with electronic features)



fsb.de/737361

5b

Security class 2 (EN 1906, test mark 29-2/13) open version
(ES-1 K reg. no. 4X078)
(ES-1 L reg. no. 4X076)

Firmness of the backplates	10 kN
max. bend	≤ 5 mm
Tensile force fixation	15 kN
max. deformation	≤ 5 mm
Bore resistance	30 s
Cutting bit test	3 hits

Security class 2 (EN 1906, test mark 29-2/13) with and without core extraction protector (ZA)
(ES-1 K-ZA reg. no. 4X077)
(ES-1 L-ZA reg. no. 4X079)

Firmness of the backplates	10 kN
max. bend	≤ 5 mm
Tensile force fixation	15 kN
max. deformation	≤ 5 mm
Bore resistance	30 s
Cutting bit test	3 hits
Rigidity ZA	10 kN

Security class 4 (EN 1906, test mark 29-3/13) with core extraction protector (ZA)
(ES-3 L-ZA reg. no. 4X081)

Firmness of the backplates	20 kN
max. bend	≤ 5 mm
Tensile force fixation	30 kN
max. deformation	≤ 5 mm
Bore resistance	5 min
Cutting bit test	12 hits
Rigidity ZA	20 kN

Security class 2 in the open (ill. 2) or core extraction protector version (ZA) (ill. 3) offers a choice in all design suggestions between the long plate version or two short plate versions.

FSB also offers a rose version for the inside in this security class in addition to the backplate variants. The open versions cover cylinder projections of 11 (ill. 1) and 15 mm (ill. 2). The core extraction protector version (ZA) covers cylinder projections of 8 to 15 mm.

The equipment rules given earlier for security class 2 in the core extraction protector version (ZA) also apply for security class 4.

**Security concept
Modular layer construction**

In the construction of the FSB “Design + Security” fittings package, FSB made use of the layered construction technology the company had developed in-house. It has proven itself time and again in practical use, and has in fact become the industry standard.

The security required by the standard is increased from one security class to the next by replacing and adding materials.



Technical information

Security fitting isis® M100

The isis® M100 security fittings combine the modular layer construction, proven over the years, of the fittings in the “Design + Security” series (see also the information about the results of the Stiftung Warentest on page 576) with a particularly clever electronic security concept.

In addition, the reader (outside) and control unit (inside in the secure area) are separated from each other on the hardware: the data provided by the identification medium is read and evaluated on the outside of the fitting. The trick is: access authorisation is only then given for authorised identification media via an encrypted data connection to the control on the inside of the fitting. Unauthorised media are already rejected at the reader. In the control unit, the transferred data is encrypted and the corresponding access authorisation is triggered mechatronically. And all in just a few milliseconds. As you can see: electronic and mechanical security arrangements are consistently coordinated on isis® security fittings. The test institutes acknowledged this by awarding security class 2 (EN 1906) and ES1-L-ZA (DIN 18 257).

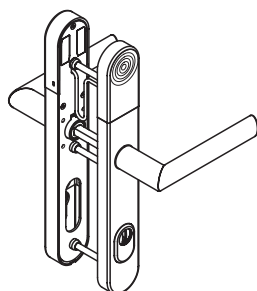
General features include the core extraction and cylinder snap protection (ZA) for the profile cylinder on the outside and long backplate on the inside.



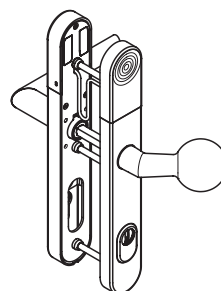
Security class 2 (EN 1906) with core extraction protection (CS)
(ES1-L-ZA Reg. no. 3V63)
acc. to DIN 18 257: 2003-03

Rigidity	10 kN
max. bend	≤ 5 mm
Tensile force fixation	15 kN
max. deformation	≤ 5 mm
Bore resistance	30 s
Cutting bit test	3 hits
Rigidity ZA	10 kN

Handle/handle combination



Handle/door knob combination



The security fitting originating from our access management concept isis® M100 is also supplied as a self-contained solution for house and apartment entrance doors in our “Design + Security” range.

We offer the configurations of handle/handle and handle/door knob. As regards the handle equipment, you have a choice of many design handles from the FSB range and two door knobs. You will find the list of individual designs on our order form opposite.

The isis® M100 outside fitting is an autonomous solution, which requires no on-site arrangements as regards power supply and connections to external interfaces. It can be used on all PC locks according to DIN, spacings 72/88/92 mm and backset ≥ 35 mm – regardless of whether it is a new or existing door. The actuation angle is 39° maximum. Power supplied independently from the electrical network using an integrated battery ensures maximum flexibility from the planning phase onwards. In case of a declining battery voltage, an acoustic and optical signal is emitted. Replacing the two batteries (1/2 AA) requires no specialist knowledge and can easily be accomplished by laypersons with some DIY skills. An (emergency) opening option is also available at any time by means of a mechanical cylinder, which is protected against manipulation on the hardware side with a cylinder snap protection (CS).

FSB supplies the identification media equipment that you want according to your individual needs. The following administration and identification media are available:

- Key fob, in the form of a keyring, in pairs with matching clone card
- Key card, in pairs with matching clone card
- Master card (administration)
- Office card (“permanently open”, not usually necessary for household customers)
- Key fob emergency

The fittings are individually programmed using the master card and key card or key fob. These are described and illustrated in Section 2a on page 60 or under fsb.de/isism100



Security fitting isis® M100

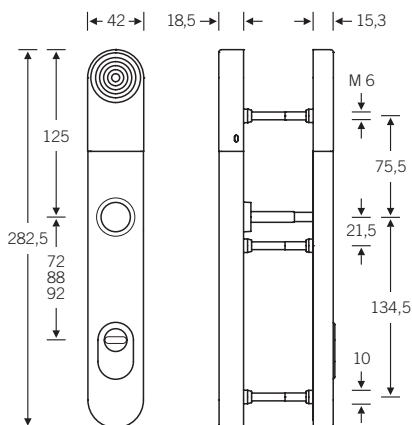
Design + Security

For technical informations see page 578

26 1108 



Illustration:
left hand fitting



Order information

-  Standard
  Fire protection

Type of set

- Door handle (inside + outside)
 Door handle (inside),
door knob (outside)

Door handle designs

- | | | |
|--|--|--|
| <input type="checkbox"/> 1015 (p. 126) | <input type="checkbox"/> 1053 (p. 138) | <input type="checkbox"/> 1108 (p. 196) |
| <input type="checkbox"/> 1016 (p. 130) | <input type="checkbox"/> 1070 (p. 164) | <input type="checkbox"/> 1144 (p. 210) |
| <input type="checkbox"/> 1023 (p. 138) | <input type="checkbox"/> 1076 (p. 170) | <input type="checkbox"/> 1146 (p. 214) |
| <input type="checkbox"/> 1031 (p. 150) | <input type="checkbox"/> 1078 (p. 176) | <input type="checkbox"/> 1147 (p. 218) |
| <input type="checkbox"/> 1035 (p. 150) | <input type="checkbox"/> 1088 (p. 176) | <input type="checkbox"/> 1177 (p. 192) |
| <input type="checkbox"/> 1045 (p. 154) | <input type="checkbox"/> 1107 (p. 192) | <input type="checkbox"/> 1178 (p. 196) |

Door knobs

- 08 0804 (solid doors, page 300)
 08 0846 (frame doors, page 311)

Interior

Long backplate

Backplate set security class

S2-ZA 9–16 mm

Direction of set

- Right, door handle
ZA-side facing left
 Left, door handle
ZA-side facing right

Set to match door thickness

_____ mm

PC distance

- | | | |
|---|--------------------------------|---|
| <input type="checkbox"/> 72 mm | <input type="checkbox"/> 88 mm | <input type="checkbox"/> 92 mm |
| <input checked="" type="checkbox"/> 72 mm | | <input checked="" type="checkbox"/> 92 mm |

Square spindle

- | | | |
|--|---------------------------------|--------------------------------|
| <input type="checkbox"/> 8 mm | <input type="checkbox"/> 8.5 mm | <input type="checkbox"/> 10 mm |
| <input checked="" type="checkbox"/> 9 mm | | |

Material/colour

- | | | |
|--------------------|--------------------------------|--------------------------------|
| aluminium (AL) | <input type="checkbox"/> 01 | <input type="checkbox"/> _____ |
| alu. + colour (AF) | <input type="checkbox"/> white | <input type="checkbox"/> _____ |
| stainl. steel (ER) | <input type="checkbox"/> 6204 | <input type="checkbox"/> 6205 |

Administration and identification media

- _____ Ex. office
_____ Ex. master (a master in included in delivery for new installations)
_____ Ex. key (in pairs supplied with matching clone)
_____ Ex. key fob (in pairs supplied with matching clone)
_____ Ex. key fob emergency

Order quantity _____ Sets



fsb.de/261108

Reg. no. 3V63
DIN 18 257
ES1-L-ZA

73 7360 ■

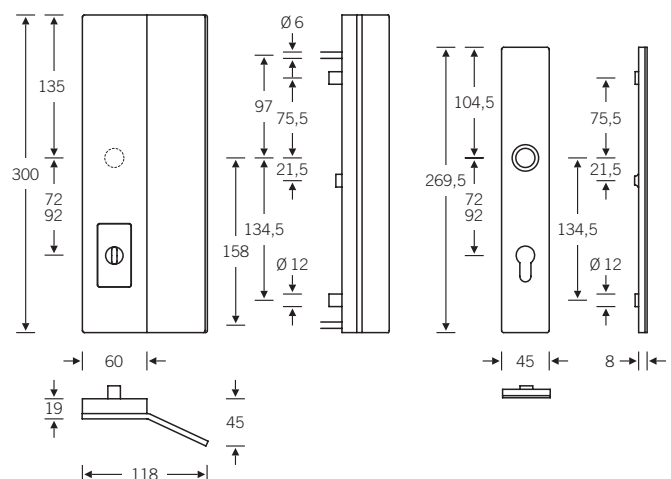


↪ 73 7360
↪ 73 7560

Entrance door fitting
with rectangular backplate inside,
with door handle FSB 1108, security class
S4-ZA (cylinder projection 8–15 mm)
PC distance 92 mm, 10 mm □ hole
PC distance 72 mm, 8 mm □ hole

Order information:

- door thickness
- distance and square
- door handle direction inside
- stainless steel surface
- quantity
- dimension X for pin 05 0115,
see page 707



fsb.de/737360

73 7361 ■

↻ 73 7361



Entrance door fitting
with rectangular backplate inside,
with door handle FSB 1108, security class
S4-ZA (cylinder projection 8–15 mm)
PC distance 92 mm, 10 mm □ hole
PC distance 72 mm, 8 mm □ hole

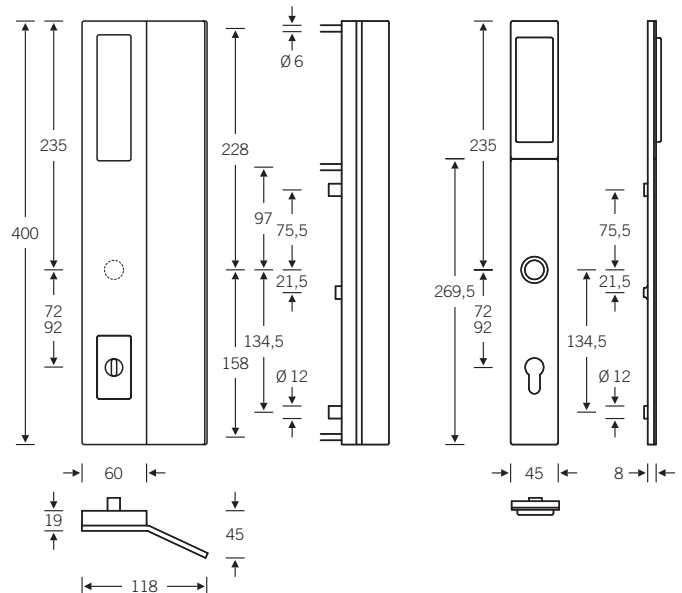
Included in the delivery:

integrated splash-proof capacitive bell
sensor with LED transmitter control (out-
side) and remote doorbell module in-
tegrated in door plate (inside), battery-
operated as a functional unit and with
battery-operated remote gong for the in-
side (batteries not included)

Order information:

- door thickness
- distance and square
- door handle direction inside
- stainless steel surface
- quantity
- dimension X for pin 05 0115,
see page 707

5b



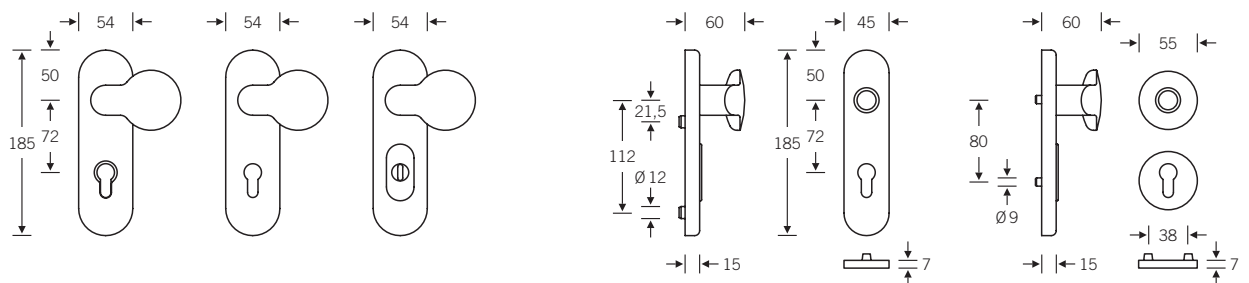
fsb.de/737361

73 7374 



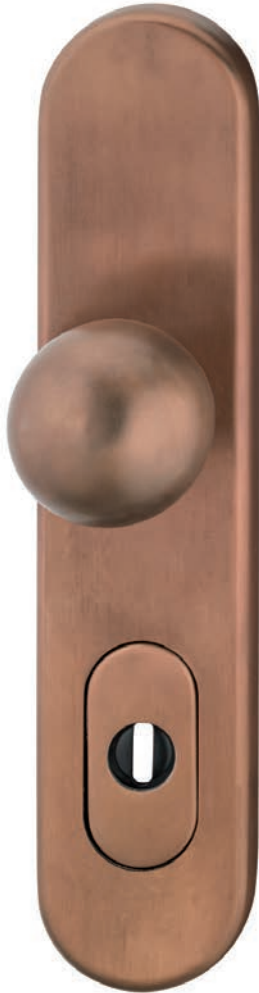
Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7374
	<input checked="" type="checkbox"/> Fire safety	<input checked="" type="checkbox"/> 73 7574
Type of set	<input type="checkbox"/> entrance door fitting	
	<input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right	
	<input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	
	<input checked="" type="checkbox"/> 9 mm	
Material/colour	aluminium (AL) <input type="checkbox"/> 01	<input type="checkbox"/> _____
	alu. + colour (AF) <input type="checkbox"/> white	<input type="checkbox"/> _____
	stainl. steel (ER) <input type="checkbox"/> 6204	<input type="checkbox"/> 6205
Order quantity _____ set		

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)



fsb.de/737374

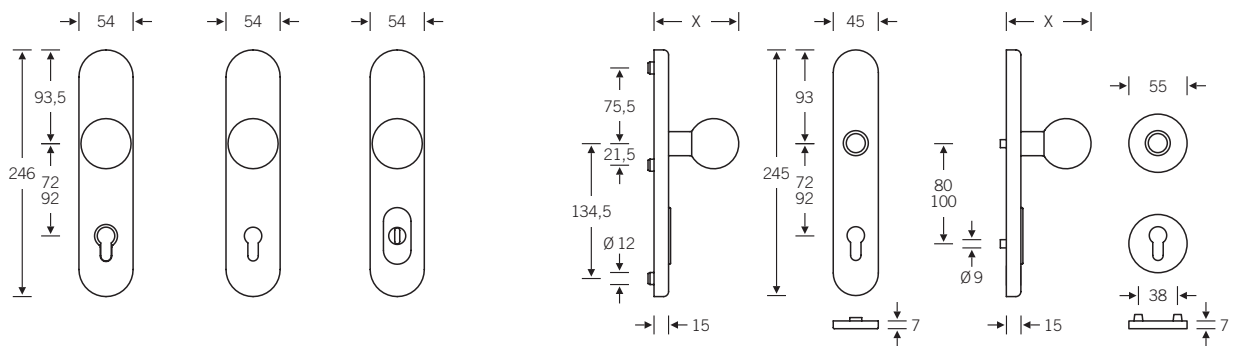
73 7375 



Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7375
	<input checked="" type="checkbox"/> Fire safety	<input checked="" type="checkbox"/> 73 7575
Type of set	<input type="checkbox"/> entrance door fitting	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
	<input type="checkbox"/> S4-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right	
	<input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input checked="" type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL)	<input type="checkbox"/> 01
	alu. + colour (AF)	<input type="checkbox"/> white
	stainl. steel (ER)	<input type="checkbox"/> 6204
	bronze	<input type="checkbox"/> 7615
		<input type="checkbox"/> _____
		<input type="checkbox"/> _____
		<input type="checkbox"/> 6205
		<input type="checkbox"/> 7625
	Order quantity _____ set	

5b

Material-specific handle versions:
 FSB 1107 (aluminium, aluminium + colour, stainless steel)
 FSB 1023 (bronze, brass)



fsb.de/737375

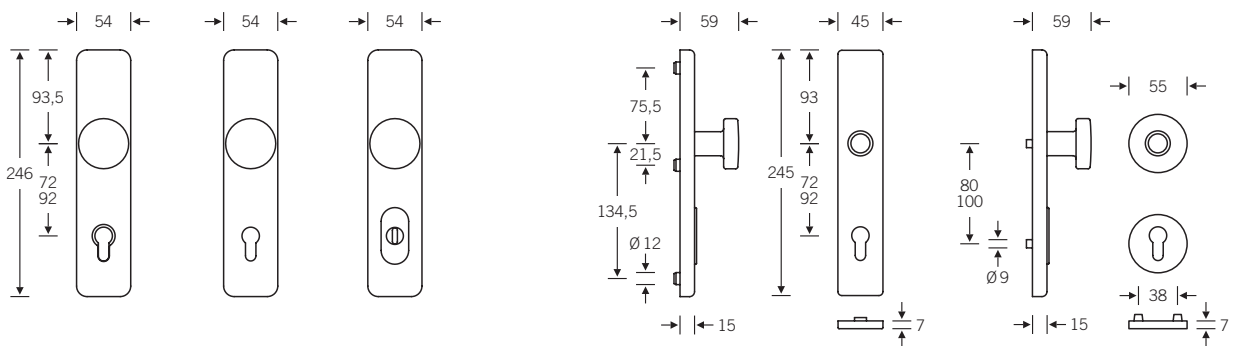
* only S2-ZA
 Dim. X: 85 mm (aluminium, alu. + colour)
 80 mm (stainless steel, bronze)

73 7376 



Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7376
	<input checked="" type="checkbox"/> Fire safety	<input checked="" type="checkbox"/> 73 7576
Type of set	<input type="checkbox"/> entrance door fitting	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8-15 mm
	<input type="checkbox"/> S4-ZA	8-15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8-15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right	
	<input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input checked="" type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL)	<input type="checkbox"/> 01
	alu. + colour (AF)	<input type="checkbox"/> white
	stainl. steel (ER)	<input type="checkbox"/> 6204
	bronze	<input type="checkbox"/> 7615
		<input type="checkbox"/> 6205
		<input type="checkbox"/> 7625
Order quantity _____ set		

Material-specific handle versions:
 FSB 1107 (aluminium, aluminium + colour, stainless steel)
 FSB 1023 (bronze)





fsb.de/737376

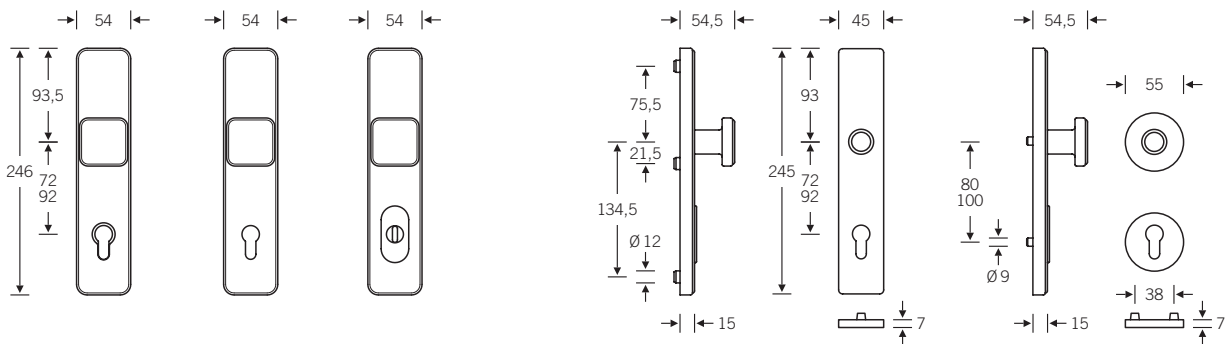
* only S2-ZA

73 7381 



Order information	 Standard	<input type="checkbox"/> 73 7381
	 Fire safety	<input type="checkbox"/> 73 7581 (stainless steel only)
Type of set	<input type="checkbox"/> entrance door fitting <input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
	<input type="checkbox"/> S4-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right <input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL) <input type="checkbox"/> 01	<input type="checkbox"/> _____
	alu. + colour (AF) <input type="checkbox"/> white	<input type="checkbox"/> _____
	stainl. steel (ER) <input type="checkbox"/> 6204	<input type="checkbox"/> 6205
Order quantity _____ set		

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)



fsb.de/737381

* only S2-ZA

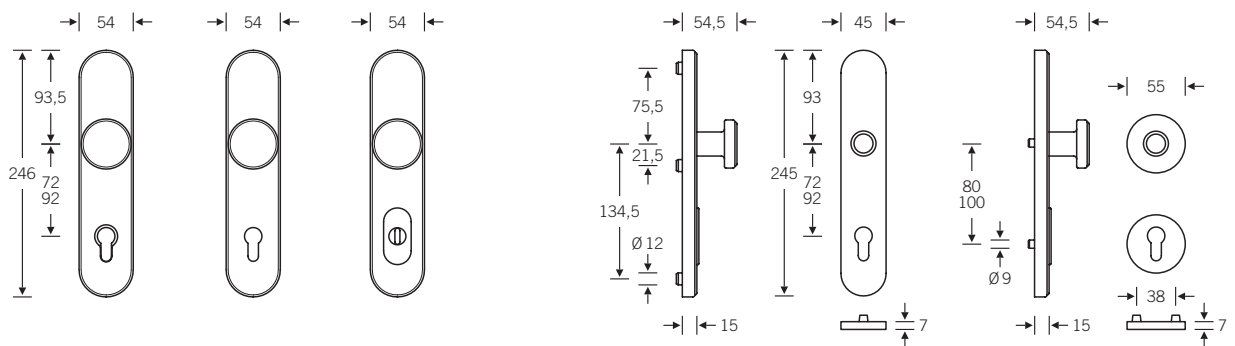
73 7382 



Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7382
	<input checked="" type="checkbox"/> Fire safety	<input checked="" type="checkbox"/> 73 7582 (stainless steel only)
Type of set	<input type="checkbox"/> entrance door fitting	
	<input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
	<input type="checkbox"/> S4-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right	
	<input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input checked="" type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL)	<input type="checkbox"/> 01
	alu. + colour (AF)	<input type="checkbox"/> white
	stainl. steel (ER)	<input type="checkbox"/> 6204
		<input type="checkbox"/> 6205

Order quantity _____ set

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)



fsb.de/737382

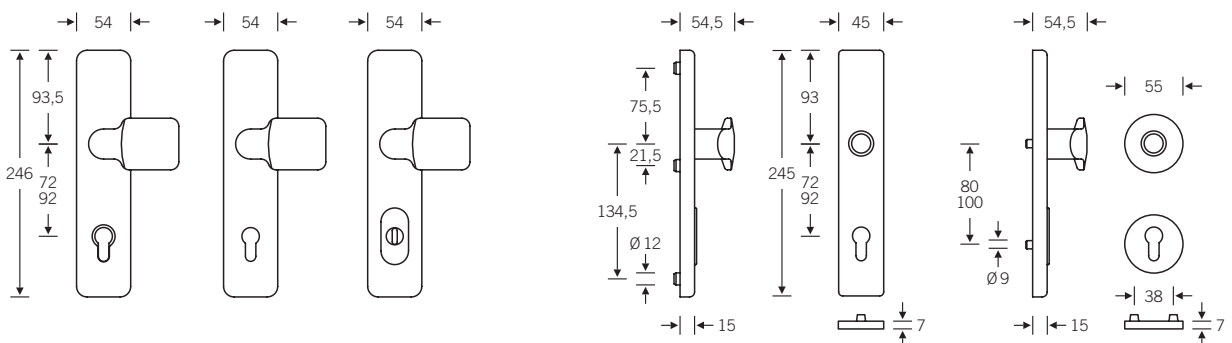
* only S2-ZA

73 7383 



Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7383
	<input checked="" type="checkbox"/> Fire safety	<input type="checkbox"/> 73 7583 (stainless steel only)
Type of set	<input type="checkbox"/> entrance door fitting	
	<input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
	<input type="checkbox"/> S4-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right	
	<input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input checked="" type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL) <input type="checkbox"/> 01	<input type="checkbox"/> _____
	alu. + colour (AF) <input type="checkbox"/> white	<input type="checkbox"/> _____
	stainl. steel (ER) <input type="checkbox"/> 6204	<input type="checkbox"/> 6205
Order quantity _____ set		

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)



fsb.de/737383

* only S2-ZA

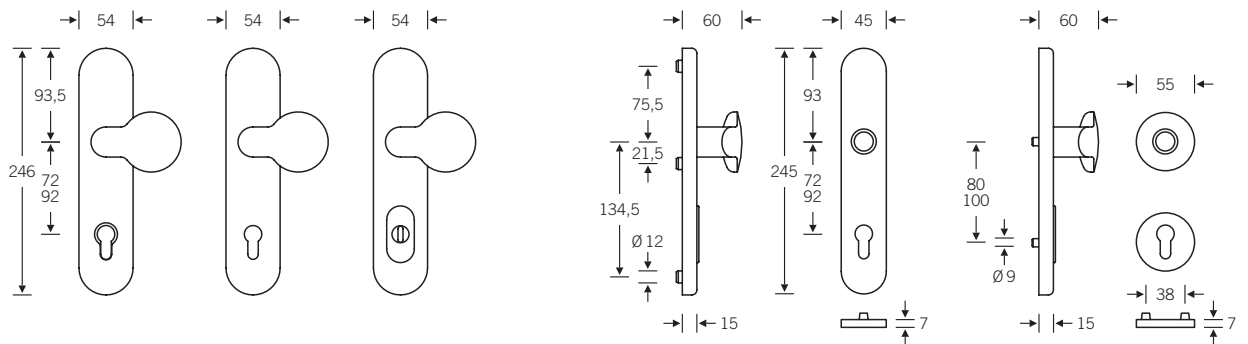
73 7384 



Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7384
	<input checked="" type="checkbox"/> Fire safety	<input checked="" type="checkbox"/> 73 7584
Type of set	<input type="checkbox"/> entrance door fitting <input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
	<input type="checkbox"/> S4-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right <input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input checked="" type="checkbox"/> 72 mm	<input checked="" type="checkbox"/> 92 mm*
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL) <input type="checkbox"/> 01	<input type="checkbox"/> _____
	alu. + colour (AF) <input type="checkbox"/> white	<input type="checkbox"/> _____
	stainl. steel (ER) <input type="checkbox"/> 6204	<input type="checkbox"/> 6205

Order quantity _____ set

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)





fsb.de/737384

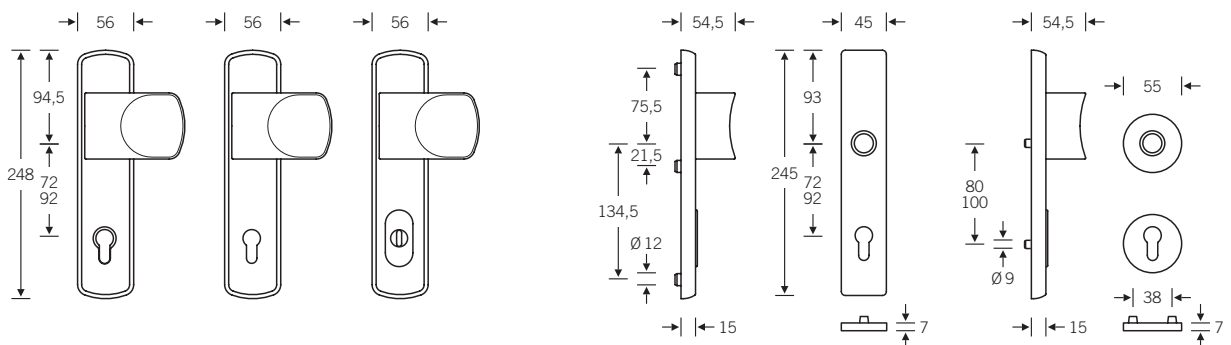
* only S2-ZA

73 7385 



Order information	 Standard	<input type="checkbox"/> 73 7385
	 Fire safety	<input type="checkbox"/> 73 7585 (stainless steel only)
Type of set	<input type="checkbox"/> entrance door fitting <input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
	<input type="checkbox"/> S4-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right <input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input checked="" type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL)	<input type="checkbox"/> 01
	alu. + colour (AF)	<input type="checkbox"/> white
	stainl. steel (ER)	<input type="checkbox"/> 6204
		<input type="checkbox"/> 6205
Order quantity _____ set		

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)



fsb.de/737385

* only S2-ZA

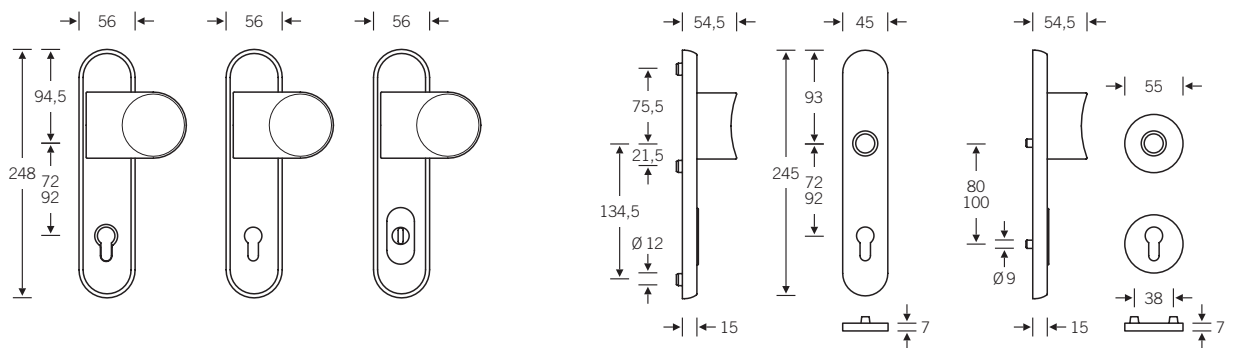
73 7386 



Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7386
	<input checked="" type="checkbox"/> Fire safety	<input checked="" type="checkbox"/> 73 7586 (stainless steel only)
Type of set	<input type="checkbox"/> entrance door fitting	
	<input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
	<input type="checkbox"/> S4-ZA	8–15 mm
Security class rose set	<input type="checkbox"/> S2	11 mm
	<input type="checkbox"/> S2	15 mm
	<input type="checkbox"/> S2-ZA	8–15 mm
Direction of set	<input type="checkbox"/> Door handle inside facing right	
	<input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input type="checkbox"/> 78 mm, RZ 22.4 mm*	<input type="checkbox"/> 92 mm
	<input checked="" type="checkbox"/> 72 mm	
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL)	<input type="checkbox"/> 01
	alu. + colour (AF)	<input type="checkbox"/> white
	stainl. steel (ER)	<input type="checkbox"/> 6204
		<input type="checkbox"/> _____
		<input type="checkbox"/> _____
		<input type="checkbox"/> 6205
	Order quantity _____ set	

5b

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)



fsb.de/737386

* only S2-ZA

73 7387 



Order information  Standard 73 7387
 Fire safety 73 7587 (stainless steel only)

Type of set entrance door fitting
 door handle set

Interior backplate rose

Security class backplate set S2 11 mm
 S2 15 mm
 S2-ZA 8–15 mm
 S4-ZA 8–15 mm

Security class rose set S2 11 mm
 S2 15 mm
 S2-ZA 8–15 mm

Direction of set Door handle inside facing right
 Door handle inside facing left

Set to match door thickness _____ mm

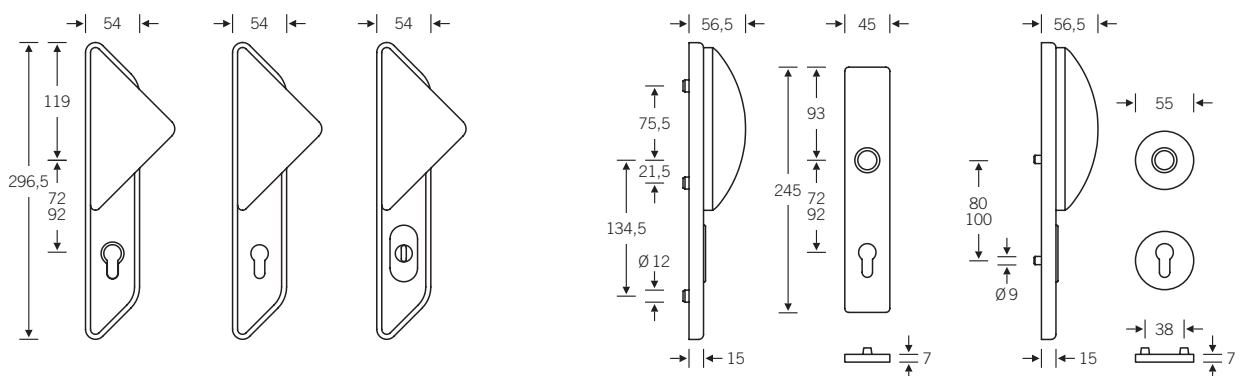
PC distance 72 mm 88* mm 92 mm
 72 mm

Square spindle 8 mm 8.5* mm 10 mm
 9 mm

Material/colour aluminium (AL) 01 _____
 alu. + colour (AF) white _____
 stainl. steel (ER) 6204 6205

Order quantity _____ set

Material-specific handle versions:
 FSB 1107 (aluminium, aluminium + colour, stainless steel)



fsb.de/737387

* only S2-ZA

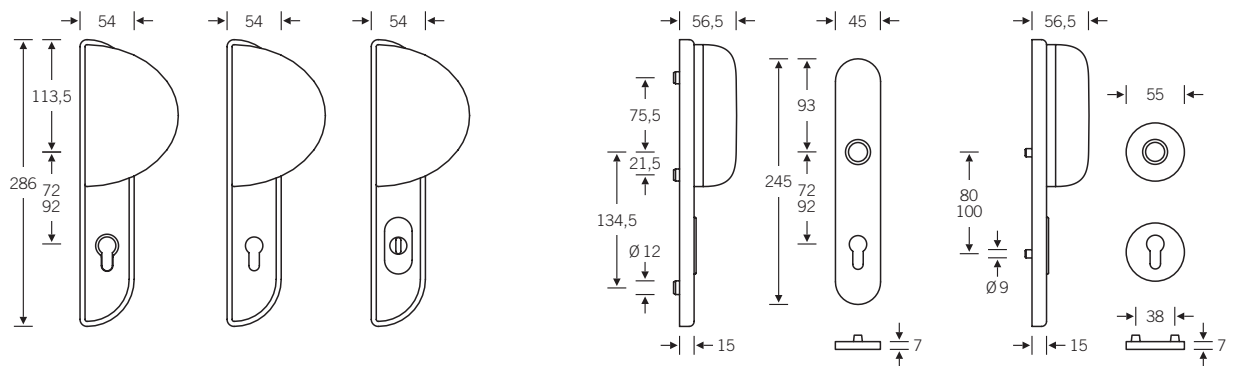
73 7388 



Order information	<input type="checkbox"/> Standard	<input type="checkbox"/> 73 7388
	<input checked="" type="checkbox"/> Fire safety	<input checked="" type="checkbox"/> 73 7588 (stainless steel only)
Type of set	<input type="checkbox"/> entrance door fitting <input type="checkbox"/> door handle set	
Interior	<input type="checkbox"/> backplate	<input type="checkbox"/> rose
Security class backplate set	<input type="checkbox"/> S2 11 mm	
	<input type="checkbox"/> S2 15 mm	
	<input type="checkbox"/> S2-ZA 8–15 mm	
	<input type="checkbox"/> S4-ZA 8–15 mm	
Security class rose set	<input type="checkbox"/> S2 11 mm	
	<input type="checkbox"/> S2 15 mm	
	<input type="checkbox"/> S2-ZA 8–15 mm	
Direction of set	<input type="checkbox"/> Door handle inside facing right <input type="checkbox"/> Door handle inside facing left	
Set to match door thickness	_____ mm	
PC distance	<input type="checkbox"/> 72 mm	<input type="checkbox"/> 88* mm
	<input checked="" type="checkbox"/> 72 mm	<input type="checkbox"/> 92 mm
Square spindle	<input type="checkbox"/> 8 mm	<input type="checkbox"/> 8.5* mm
	<input checked="" type="checkbox"/> 9 mm	<input type="checkbox"/> 10 mm
Material/colour	aluminium (AL) <input type="checkbox"/> 01	<input type="checkbox"/> _____
	alu. + colour (AF) <input type="checkbox"/> white	<input type="checkbox"/> _____
	stainl. steel (ER) <input type="checkbox"/> 6204	<input type="checkbox"/> 6205

Order quantity _____ set

Material-specific handle versions:
FSB 1107 (aluminium, aluminium + colour, stainless steel)





fsb.de/737388

* only S2-ZA

Security hardware for frame doors

For technical informations see page 576f.

73 7330 

 73 7330 030
 73 7530 030

Door handle set for frame doors, door handle with turnably fixed bearing on both sides, outside backplate 14 mm, inside backplate 7 mm, PC distance 72 and 92 mm

Pin 8 mm
Pin 9 mm

to match cylinder projections
from 12.5–15.5 mm

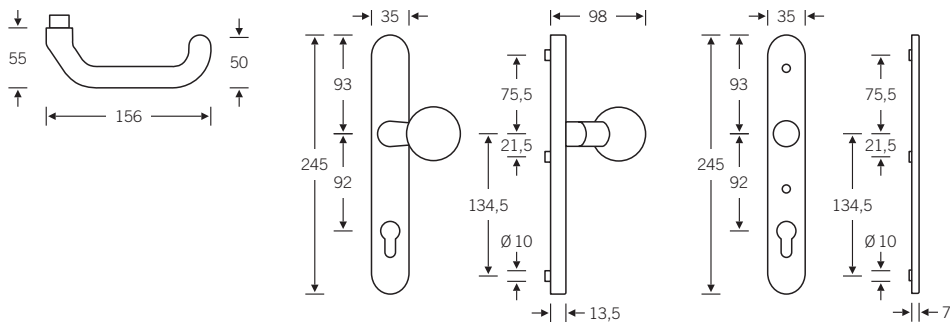


 73 7330 031
 73 7530 031

Entrance door fitting for frame doors, door handle with turnably fixed bearing, outside backplate 14 mm, inside backplate 7 mm, PC distance 72 and 92 mm

Pin 8 mm
Pin 9 mm

to match cylinder projections
from 12.5–15.5 mm



EN 179



fsb.de/737330

Certified acc. to DIN 18 257 ES 1
Reg. no. 3V05

Security hardware for frame doors

For technical informations see page 576.f.

73 7331 

 73 7331 030
 73 7531 030

Door handle set for frame doors, door handle with turnably fixed bearing on both sides, outside backplate 14 mm, inside backplate 7 mm, PC distance 72 and 92 mm

Pin 8 mm
 Pin 9 mm

to match cylinder projections from 8–13 mm



 73 7331 031
 73 7531 031

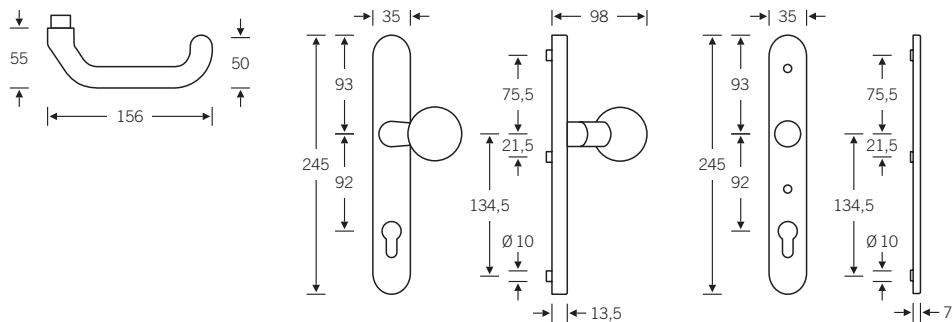
Entrance door fitting for frame doors, door handle with turnably fixed bearing, outside backplate 14 mm, inside backplate 7 mm, PC distance 72 and 92 mm

Pin 8 mm
 Pin 9 mm

to match cylinder projections from 8–13 mm



5b



EN179

fsb.de/737331

Certified acc. to DIN 18 257 ES 1
 Reg. no. 3V05

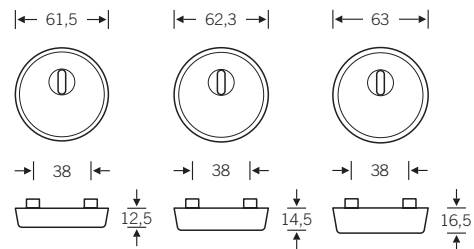
73 7395 01.. 



to match cylinder projection (ZÜ) as per table

Product no.	Ø	ZÜ	Height
73 7395 01010	61.5 mm	6.5 mm	12.5 mm
73 7395 01110	62.3 mm	8.5 mm	14.5 mm
73 7395 01210	63.0 mm	10.5 mm	16.5 mm

Because of the usual cylinder lengths on the market, these roses can only be used on a door thickness of 50 mm or more



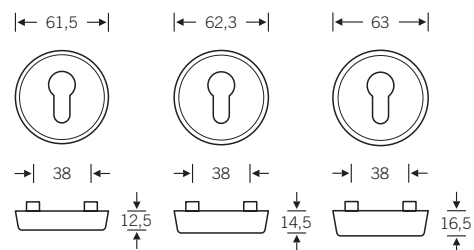
73 7395 00.. 



to match cylinder projection (ZÜ) as per table

Product no.	Ø	ZÜ	Height
73 7395 01010	61.5 mm	6.5 mm	12.5 mm
73 7395 01110	62.3 mm	8.5 mm	14.5 mm
73 7395 01210	63.0 mm	10.5 mm	16.5 mm

* recommended cylinder projection ± 1.5 mm



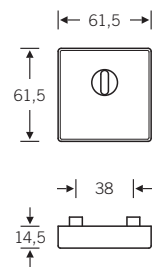
fsb.de/737395

Both roses are tested and certified accord. to DIN 18 257 ES 1

73 7397 ■

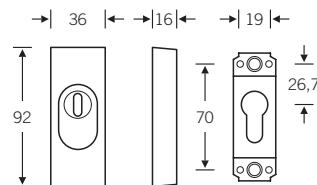
Tested and certified to DIN 18 257 ES 1
with inner rose FSB 17 1704

Product no.	Ø	ZÜ	Height
73 7397 01110	61.5 mm	8.5 mm	14.5 mm



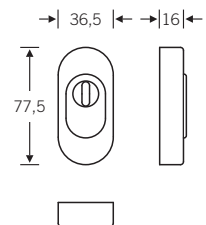
73 3244 ■ □

to match cylinder projections from 8–15 mm,
screw hole Ø 3.2 mm



73 3249 ■ □ ■ ■

to match cylinder projections from 10–17 mm,
screw hole Ø 3.2 mm

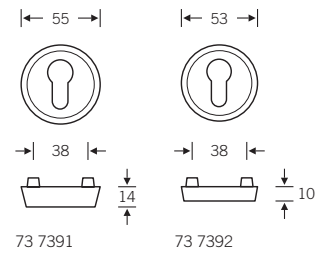


fsb.de/737397
fsb.de/733244
fsb.de/733249

The integrated security technology requires the external dimensions of the security rose to project 11 mm (FSB 73 3244) beyond the screw hole distance. Please take this into consideration in combination with other fittings.

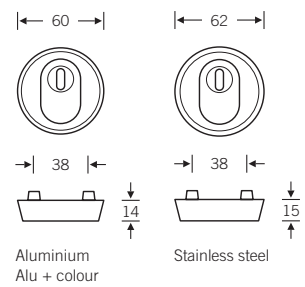
73 7391 | 73 7392 

73 7391 (14 mm)
73 7392 (10 mm)



73 7393 

to match cylinder projections
from 8–15 mm



fsb.de/737391
fsb.de/737392
fsb.de/737393

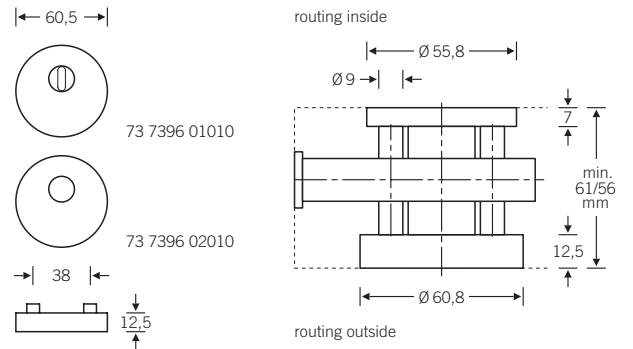
Security roses flush fit

For technical informations see page 576f.



73 7396

73 7396 01010 (with core extraction protection/ZA)
73 7396 02010 (without core extraction protection/ZA)



Tested and certified to
DIN 18 257 ES 1

The factor that ultimately determines whether series 73 7396 armoured roses can be flush-fitted is not so much the door thickness as the distance from the lock centre to the outside of the door of 56 mm:

FSB 73 7396 01010 requires at least 33.5 mm, and FSB 73 7396 02010 a modest 29 mm.

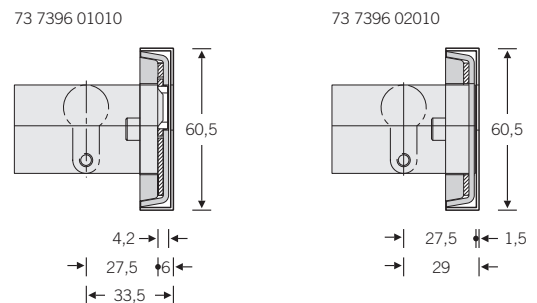
The smaller dimension for 73 7396 02010 is due to the omission of the securing disc, making 73 7396 02010 the first choice in cases with difficult dimensional configurations of door thickness/lock position: for thinner doors or if the position of the lock is less than ideal, 73 7396 02010 will provide up to 4.5 mm more cylinder projection than 73 7396 01010, or will compensate for a door that is 4.5 mm thinner. The advantage: omitting the securing disc does not affect the security class, so DIN 18 257 ES 1 applies for both versions. In order to be able to flush-fit the inside rose, another 27.5 mm are required from the lock centre to the inside of the door. This results in a minimum door thickness of 56 mm.

Flush-fitting hardware on the outside of a door requires it to be routed to \varnothing 60.8 mm with a depth of 12.5 mm, and \varnothing 55.8 mm on the inside with a depth of 7 mm.

The lug boreholes (\varnothing 9 mm) need to be 38 mm apart and at least 7 mm deep on both sides. The machined areas need to be sealed, especially on the outside of the door.

Since flush fitting has no bearing on the security class, armoured roses can, of course, be allowed to project by a few millimetres or, indeed, can be surface-mounted in the "classical" way, a solution that is every bit as visually impressive, given the elemental geometry that imbues the 73 7396.

You will find a routing template under product no. 03 0462 00010 on page 725.



fsb.de/737396


Order information:

- Door thickness
- Version 73 7396 01010 oder 02010
- Material/finish
- Quantity


606 Letter plates
612 Intercom and bell panels
614 Numerals

5c


Overview

38 3801 
Page 606




38 3808 
Page 607




38 3826 
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38 3826 
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38 3845 
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38 3863 
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38 3865 
Page 613



38 3866 
Page 613



38 4005 
Page 614



Engravings
Page 604





Fig. special design

The front door or entrance area area of a house gives an initial impression of the occupants' values. FSB's range offers almost unlimited possibilities for individual or exclusive designs. It is irrelevant whether the items in question are traditional door pulls, security hardware or other accessories that do not necessarily have to be attached to the door. A consistent, simple design philosophy, using the same materials (aluminium, stainless steel, brass and bronze) and a consistently fine surface finish to all the individual items guarantees a harmonious, matching overall appearance.

Letter plates

Intercom and bell-push plates



Letter plates

All FSB letter plates have a spring mechanism, so they can also be fitted vertically. Furthermore, FSB manufactures letter plates and the matching accessories for a wide range of installation situations and with the most diverse external and opening dimensions, with custom inscriptions or engravings:

- Letter plates with or without a spacer
- Letter plates with or without a nameplate, optionally with a plastic frame or the name engraved directly onto the letter plate

Engraving

Engravings can be carried out on letter plates, intercom and bell-push plates. In our opinion, engraving on metal is not only the most aesthetic solution, but also stands for respectability and a particular understanding of values that we associate with the first impression of the entrance area of the residence. Engravings can be carried out in “natural” or in colour. With regard to individual designs, the possibilities range from all the standard colour systems (RAL, HKS, Pantone etc.) to colours used in the automobile industry. If no specific colour request is made, we will supply the engraving in black as standard.

If you choose a special design for your engraving and/or a special format, please allow for a longer delivery time.

Fonts:
Upper case height from 4 mm

Laser engraving

FSB offers the possibility to process motifs in the form of pixel data such as .tiff, .jpeg and .bmp in addition to vectorised files, and of lasering picture motifs or graphics. Linear filigree design elements are particular delightful, as lasering enables the use of very fine line thicknesses or dots.

Due to the oxide layer in the aluminium, laser engravings generally have a metallic-white appearance (even on coloured anodised backgrounds). Lasered stainless steel surfaces are black.

If you choose a special design for your engraving and/or a special format, please allow for a longer delivery time.

Fonts:
Upper case height from 2.0 mm



5c

Fonts

In case of typographic engravings we need exact details about the font type and size. Besides a broad range of fonts, we can also arrange for your script, logos or names to be input in vectored form or converted into character paths. If no details about the font type, style or size are given when ordering, we produce typographic engravings in "Arial". The font "Blair Medium" is used for the lower of the engravings shown above, "Charlemagne" for the one on the right.

Bell push and light socket

Bell pushes may only be connected to a protective extra low voltage (max. 42V). Given the high no-load voltage involved, we recommend connecting the light socket (lamp operation max. 24V/40 mA) to the safety transformer (8V).

EN 13 724

The European Standards Committee drew up the above EN standard in co-operation with the Deutsche Bundespost, letter-plate manufacturers and representatives of consumer associations. With regard to the opening for domestic letter boxes, the standard requires a test envelope in the format C4 (= 229 × 324 mm) and 24 mm thick to pass through the opening without it being folded or otherwise being damaged. The FSB letter plate designs 38 3829 and 38 3801 meet this requirement.

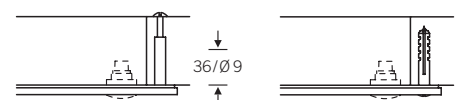
Fitting information

When fitting letter plates and bell-push plates, please ensure that they are not exposed to driving rain.

Fixing

Concealed fixing:
 \varnothing 9 mm, 36 mm deep, \varnothing 4.5 mm or \varnothing 5.5 mm through fixing. To be fixed with M4 or M5 screws (included).

Visible fixing (wall mounting):
 On request, the intercom and bell-push plates and the letter plate 38 3808 can also be supplied for visible fixing using \varnothing 5 mm countersunk screws.



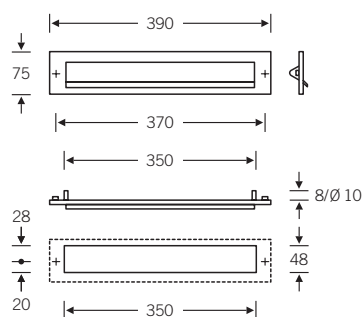
Letter plates

38 3801 | 38 3804 ■

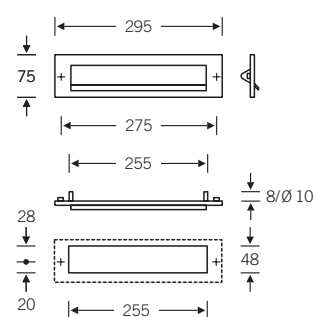
38 3801 02001 (without nameplate)
38 3801 02002 (with nameplate)
Opening dimensions 325 × 32 mm
Door cutout 350 × 48 mm

38 3804 02001 (without nameplate)
38 3804 02002 (with nameplate)
Opening dimensions 230 × 32 mm
Door cutout 255 × 48 mm

Engravings see page 604



38 3801



38 3804

fsb.de/383801
fsb.de/383804

Fastening drill holes:

Ø 10 mm, 48 mm deep
Ø 5.5 mm through fixing
To be fixed using M5 screws (included)

Letter plates

38 3808 

38 3808 00061 (40 – 70 mm)
38 3808 00071 (71 – 100 mm)
Letter plate set without nameplate,
with spacer and inner flap

38 3808 00001
38 3808 00101 for wall mounting
Letter plate without nameplate,
without spacer and inner flap

38 3808 00062 (40 – 70 mm)
38 3808 00072 (71 – 100 mm)
Letter plate set with nameplate,
spacer and inner flap

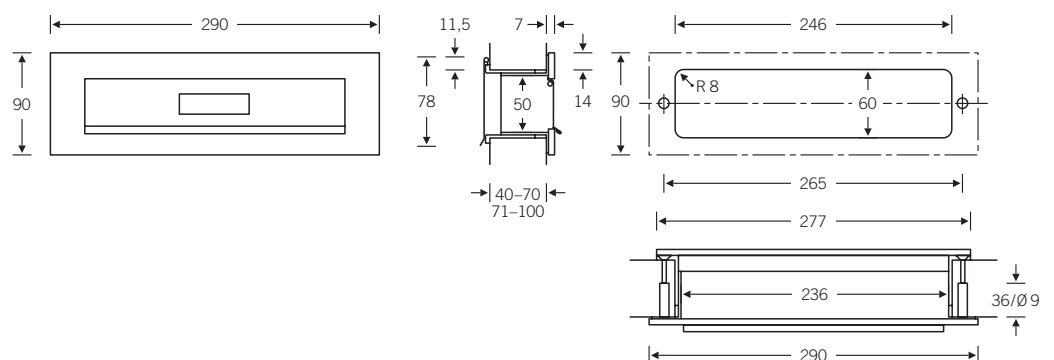
38 3808 00002
38 3808 00102 for wall mounting
Letter plate with nameplate,
without spacer and inner flap

Opening dimensions 230 × 35 mm
Door cutout 246 × 60 mm

Engravings see page 604



5c



fsb.de/383808

Fixed invisibly from the inside or
through the inner flap

Fastening drill holes:

Ø 9 mm, 36 mm deep
Ø 4,5 mm through fixing
To be fixed using M4 screws (included)

Letter plates

38 3826 

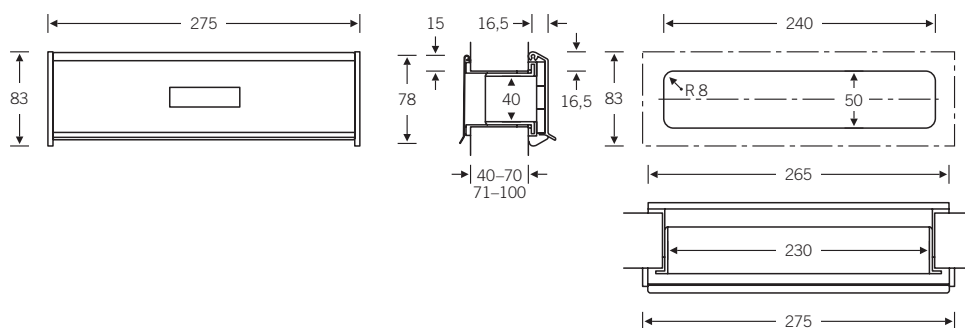
38 3826 02061 (40 – 70 mm)
38 3826 02071 (71 – 100 mm)
Letter plate set without nameplate,
with spacer and inner flap

38 3826 02001
Letter plate without nameplate,
without spacer and inner flap

38 3826 02062 (40 – 70 mm)
38 3826 02072 (71 – 100 mm)
Letter plate set with nameplate,
with spacer and inner flap

38 3826 02002
Letter plate with nameplate,
without spacer and inner flap

Opening dimensions 230 × 40 mm
Door cutout 240 × 50 mm



Letter plates

38 3826 | 38 3829 

38 3826 02001 without nameplate
38 3826 02002 with nameplate

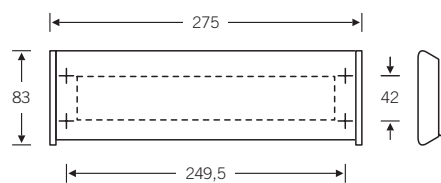
Opening dimensions or door cutout
230 × 40 mm

38 3829 02001 without nameplate
38 3829 02002 with nameplate

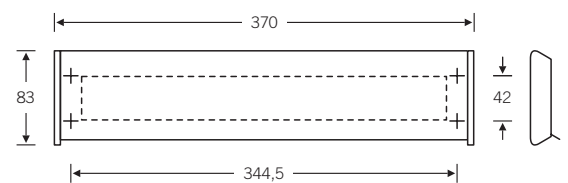
Opening dimensions or door cutout
325 × 40 mm



5c



38 3826



38 3829

fsb.de/383826
fsb.de/383829

Letter plates

38 3835 

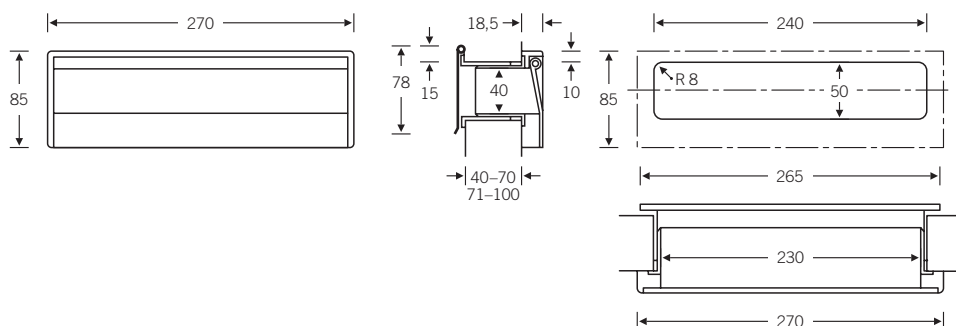
38 3835 00061 (40 – 70 mm)
38 3835 00071 (71 – 100 mm)
Letter plate set without nameplate,
with spacer and inner flap

38 3835 00001
Letter plate without nameplate,
without spacer and inner flap


38 3835 00062 (40 – 70 mm)
38 3835 00072 (71 – 100 mm)
Letter plate set with nameplate,
with spacer and inner flap

38 3835 00002
Letter plate with nameplate,
without spacer and inner flap

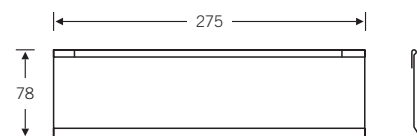
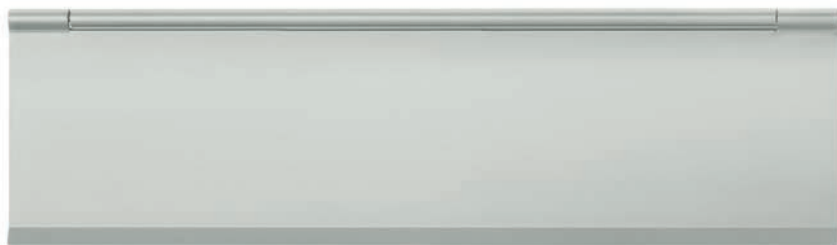
Opening dimensions 230 × 40 mm
Door cutout 240 × 50 mm



Flap Bell push

38 3845 

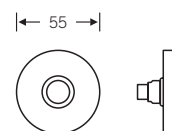
Suitable for door cutout 255 × 40 mm



38 3863  

To be connected to a protective
low voltage of max. 42V

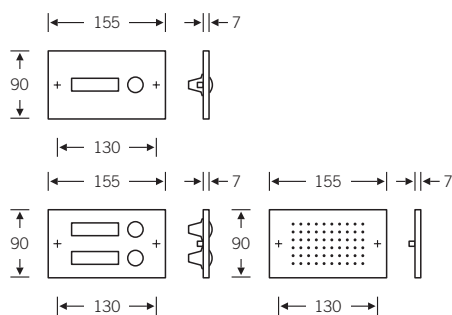
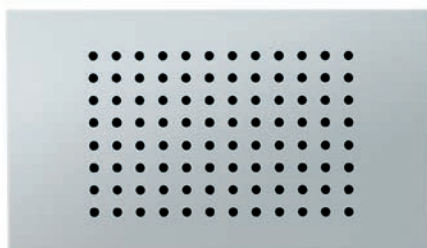
5c



38 3810 | 38 3811 ■ ■

Versions 38 3810 see below

Mill out W 110 x H 70 x D 30 mm



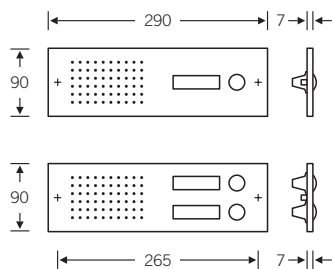
38 3810

38 3811

38 3812 ■ ■

Versions see below

Mill out W 245 x H 70 x D 30 mm



Versions 38 3810 | 38 3812

Interchangeable nameplates made of plastic

Fastening on back:
00011 (one piece) | 00012 (two pieces)
Visible fastening on front for wall mounting:
00111 (one piece) | 00112 (two pieces)

Screwed interchangeable name plates (68 x 20 mm) made of stainless steel and bronze for individually engraved names*

Fastening on back:
00021 (one piece) | 00022 (two pieces)
Visible fastening on front for wall mounting:
00121 (one piece) | 00122 (two pieces)

Without nameplates for individually engraved name*

Fastening on back:
00031 (one piece) | 00032 (two pieces)
Visible fastening on front for wall mounting:
00131 (one piece) | 00132 (two pieces)

fsb.de/383810
fsb.de/383811
fsb.de/383812

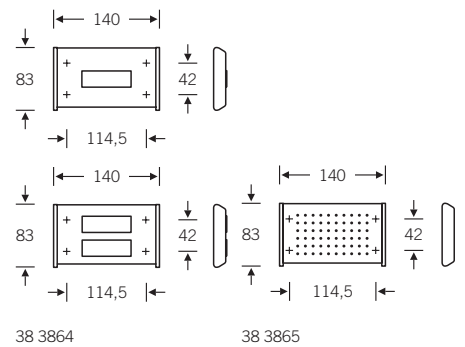
* Engravings see page 604

Suitable for loudspeakers made by Siedle (TLE 051-01, 061-0, 640-0) and Ritto (5921/01), and for all standard loudspeakers fitted to doors measuring ≤ 100 x 60 mm.

38 3864 | 38 3865 

Versions 38 3864 see below

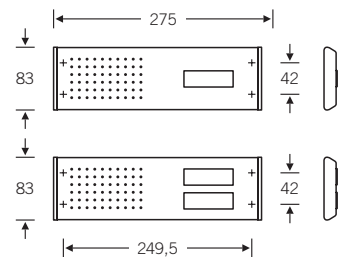
Mill out W 100 × H 60 × D 30 mm



38 3866 

Versions see below

Mill out W 235 × H 60 × D 30 mm



Versions 38 3864 | 38 3866

Interchangeable nameplates made of plastic as the bell-push

00011 (one piece)
00012 (two pieces)

All FBS bell pushes may only be connected to a protective low voltage (max. 42 V). For bell pushes 38 3864 and 38 3866, we recommend connecting the light socket (bulb operation max. 24 V/40 mA) to the safety transformer (8 V) because of the high no-load voltage involved.

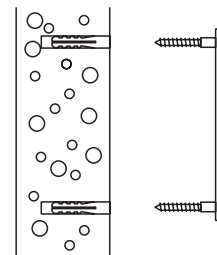
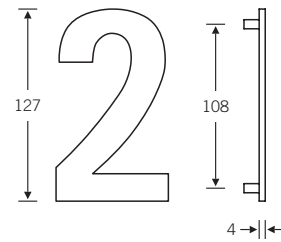
fsb.de/383864
fsb.de/383865
fsb.de/383866

Suitable for loudspeakers made by Siedle (TLE 051-01, 061-0, 640-0) and Ritto (5921/01), and for all standard loudspeakers fitted to doors measuring ≤ 100 × 60 mm.

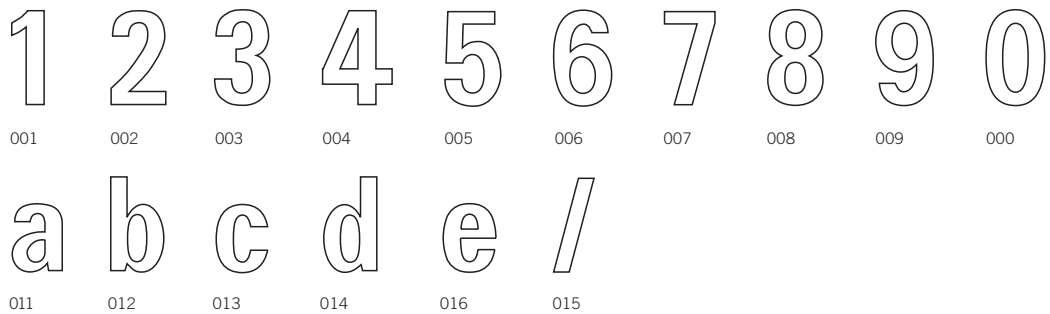
Numerals

38 4005 

FSB's programme of numerals and letters draws on designs that Otl Aicher recommended to our company as a headline typeface. For Otl Aicher, clear legibility from a great distance was of the utmost importance. Our numerals and letters are made of 4 mm-thick stainless steel or bronze sheet. Numerals and letters have the identical fastening points with threaded sockets (M4). These are fitted with bolts, which in turn are secured in rawl plugs (8 mm). Every numeral or letter comes with a fixing template that also determines the distance between the characters. Custom spacing is easy to achieve.



Order no.
38 4005 00...



fsb.de/384005





Heathrow Terminal 2 + 5, London

www.heathrowairport.com

Rogers Stirk Harbour + Partners

www.rsh-p.com

Pascall + Watson Architects Ltd.

www.pascalls.co.uk

ErgoSystem® grab rails FSB 82 8201

ErgoSystem® drop-down support rails

FSB 82 8244

ErgoSystem® tip-up shower seats

FSB 82 8244

including ErgoSystem® sanitary and

bathroom accessories,

see page 619 ff.

Stainless steel, fine matt, brushed

www.fsb.de/heathrow

623	Barrier-free heavy-duty fittings	6a
629	Function, design, convenience: Barrier-free ErgoSystem®	6b
635	Shower and bath area	
655	Washstands and bathroom accessories	
667	WC	
675	Additional equipment	
684	Fittings for supervised areas	
687	METRIC® Bathroom accessories	6c
696	Technology and planning information according to DIN 18 040	

Overview

Shower and bath area

Grab handle
Page 640



Angled rails
Page 639f.



Handrail configurations
Page 636f.



Tray
Page 639



Walking aid holder
Page 648



Bath towel rail
Page 654



Washstands and bathroom accessories

Wall mounted support rails
Page 656f.



Drop-down support rails
Pages 657, 671, 676f.



Floor/wall-mounted support rail
Page 658



Hooks
Pages 662, 664f., 683f.



Hooks (coloured)
Page 665



Wall buffer
Page 387f., 662



WC

Wall-mounted drop-down support rails
Page 668f., 671, 676f.



Backrest
Page 670



Armrest
Page 670



Additional equipment

Information signs
Page 391



Custom handrails
Page 678f.



Special products made to measure (standard coating)
Page 678f.



Suspended seats

Page 642f.



Folding shower seats

Page 644f., 677



Bath seat

Page 645



Shower stool

Page 646



Stool

Page 647



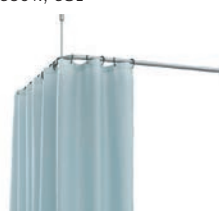
Splash guard holder

Page 649



Shower curtain rails

Page 650f., 681



Shower head holder, sliding shower rails

Page 652f., 694



Utensils shelf

Page 663, 690



Tilting mirror

Page 660



Wall mirror

Page 661, 683



Wall-mounted waste bin

Page 666



Mug holder, soap dish

Page 663, 690



Hand towel rail

Page 659



Support leg

Page 669



Toilet roll holder

Pages 672, 674, 684



WC brush set

Page 674



Push-button actuators

Page 672f.



A-Flex drop-down support rail

Page 676f.



Anti-suicide versions

Page 680f., 683



Fittings for supervised areas

Page 685



Door fittings for barrier-free living

Page 624f.



624 Barrier-free
heavy-duty fittings

6a

Ergo door handle

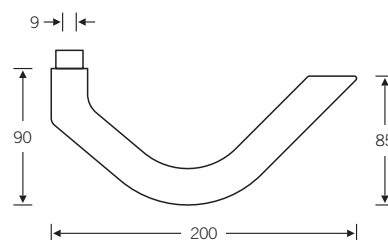
79 1155 ■

79 1155 613 (R) | 79 1155 614 (L)

Turnably fixed with 9 mm square door handle

The main benefits of 79 1155 are:

- its triangular alignment corresponds to the user's direction of movement
- the angular shape accommodates the sequence of movements when opening and closing the door
- its curve and cross-section match the hollow of a hand as it closes to grip
- its left/right alignment provides a firm hold if elbows are used to operate the door



EN 179


fsb.de/791155


Explanations about the bearings see page 26f.

Door handle model 1119

10 1119 

 10 1119

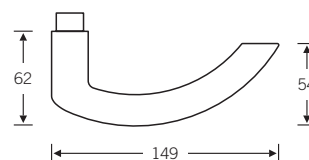
 72 1119 613 (R) | 72 1119 614 (L)

 79 1119 613 (R) | 79 1119 614 (L)

FSB 1119 draws on the insights that FSB gained in cooperation with the Fraunhofer Society in the course of scientific analyses on the design of a door handle for large doors in hospitals. Whilst the greatest attention was paid to strictly implementing the ergonomic parameters when designing the Ergo door handle, in the case of FSB 1119 the focus was on aesthetic considerations. Its creator is FSB's in-house designer, Hartmut Weise, who was also responsible for the ErgoSystem®.



6a



EN 179

fsb.de/101119

Explanations about the bearings see page 26f.

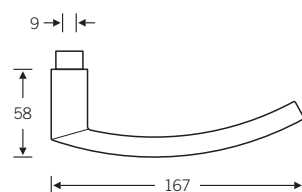
FSB XXL door handles

76 1052 ■



76 1052 613 (R) | 76 1052 614 (L)

Design matches the FSB 1107 family of handles



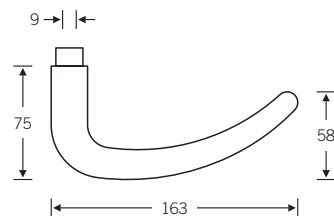
79 1117 ■



EN179

79 1117 613 (R) | 79 1117 614 (L)

Design matches the FSB 1023 family of handles



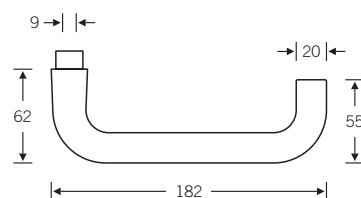
79 1090 ■



EN179

79 1090 613 (R) | 79 1090 614 (L)

Design matches the FSB 1070 family of handles



fsb.de/761052
 fsb.de/791117
 fsb.de/791090

Explanations about the bearings see page 26f.

Barrier-free hardware



14 424.

Standard version (handle 1119):
 ➤ 14 4240 40... (R) | 50... (L)
 Door entrance fitting with knob 0802
 ➤ 14 4240 42... (R) | 52... (L)
 (square □ 8 mm)
 ➤ 14 4240 61... (R) | 71... (L)
 Door entrance fitting with knob 0802
 ➤ 14 4240 43... (R) | 53... (L)
 (square □ 9 mm)
 FS approval according to DIN 18 273

Renovations version (handle 1119),
 as before, but only □ 8 mm:
 ➤ 14 4241 4... (R) | 5... (L)
 (square □ 8 mm)

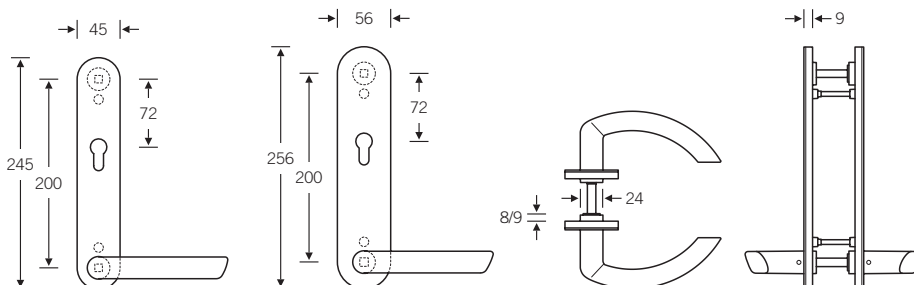
Spacing 72 mm (WC 78 mm) concealed
 screw connection on both sides, suitable
 for locks in accordance with DIN 18 251,
 complies with DIN 18 040-1 (handle
 height 850 mm)

The square spindle for the door handle
 and the top square spindle for actuating
 the lock follower are connected to each
 other with a rod. When the door handle
 is operated, this rod is used to turn the
 top spindle in the lock follower, which
 thus unlocks the latch.

With regard to barrier-free requirements,
 FSB has also given fresh thought to
 traditional hardware solutions. What
 distinguishes this hardware is that the
 door handle can be more easily reached
 by wheelchair users. It is also easier to
 insert the key because the cylinder is
 easier to access and see above the
 door handle. The barrier-free fitting
 can be fitted to existing doors and
 locks without the need for any
 modifications. The renovation
 backplate (55 mm wide) conceals
 drill holes left by the old fittings,
 moreover. Integrated in the fitting
 beneath the coverplate is a rugged
 mechanism that allows the door
 handle to be moved below the
 profile cylinder.

Standard version 14 4240

Renovation version 14 4241



Ordering information:

- Door thickness
- DIN direction
- 8/9 mm square
- Distance to locking cylinder
- Door handle model

M5 stainless steel screws are included in
 delivery depending on the thickness of the
 door.

Other keyholes (see page 268) and spac-
 ings are possible on request, except for
 FS fittings.

fsb.de/144240

fsb.de/144241

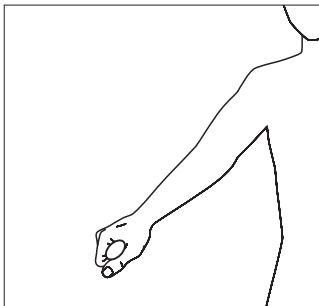
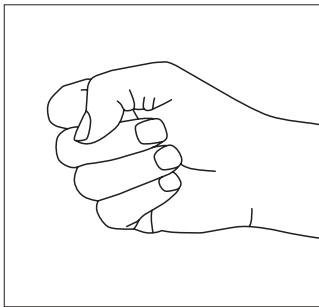
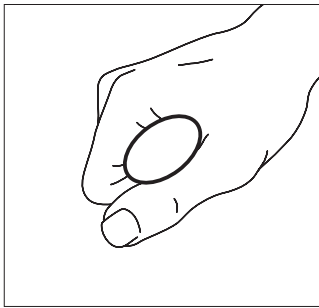
- 630 Function, design, convenience: **6b**
Barrier-free ErgoSystem®
- 635 Shower and bath area
- 655 Washstands and
bathroom accessories
- 667 WC
- 675 Additional equipment
- 684 Fittings for supervised areas

Barrier-free ErgoSystem®. We have harnessed our architectural expertise to yield a system that allows people of any age to make their lives more comfortable without having to forego aesthetic product design.



Diagonal + oval = optimum grip

Design for all



Functionality, ergonomics, aesthetics: the above qualities are what FSB's ErgoSystem® is all about. We have applied over 130 years of expertise acquired in all aspects of "handle culture" to designing barrier-free products for sanitary applications.

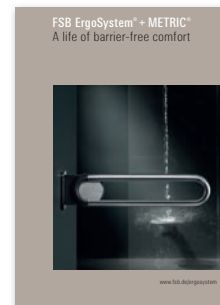
We see the ErgoSystem® as a "Design-for-all" concept, which focuses on the needs of people in all age groups – regardless of whether this involves children, adolescents, (young) adults, "best agers", "50+" or "60+" people, or so-called "senior citizens" – or whatever formulations the marketing strategies may have developed for these groups. Proof that functional and ergonomic products can also look good (in our view they must) is provided by the many awards won for design, a boon not only for gripping hands but also to the trained eye.

With its diagonal-oval design, the ErgoSystem® adheres rigorously to the ergonomics of grip. The diagonally tilted oval cross-section is a unique feature that optimises the action of gripping by the hand.

In terms of gripping, there is a basic difference between taking hold of an object and enclosing it with the hands. With the former, the fingers only touch the object intermittently, which also means that the hand only intermittently exerts any force on the object. Enclosure, by contrast, involves the whole surface of the hand and hence a far more extensive transmission of force. The act of enclosing is the most archetypal form of grip: we all resort to it instinctively whenever we have to hold or support our own body weight. An oval cross-section conforms particularly well to the laws governing the anatomy of the hand. The hand encloses the elliptical cross-section snugly.

The effort is distributed evenly between all finger joints and optimum use is made of all parts of the hand including the wrist. The upshot is that far less force needs be exerted by the hand than with a circular cross-section to prevent it slipping on the handle.

The oval shape offers the greatest possible support whilst requiring little muscular exertion. The oval section is thus an ideal shape for handles because it is so natural – especially if it is rotated through 45 degrees so that it tilts diagonally. This echoes the spatial sequence when taking hold of something. This results from the search for direction and support with the arm, which performs a diagonal motion starting from the shoulder joint and finishing with the act of enclosure. A sturdy triangle is thus formed between the hand, the shoulder used and the area the person is standing on. This causes an optimum transmission of force emanating from the body through the arm to the hand.



The full range and comprehensive information on the ErgoSystem® can be found in our brochure "A life of barrier-free comfort", which you can request free of charge under www.fsb.de/brochures

6b

Whether it is on the WC, around the washstand or even in the shower area: added convenience is called for when a person's movements no longer come naturally. The FSB ErgoSystem® makes it easy to be not reliant on help from other people.



Function, design, convenience

FSB's ErgoSystem® facilitates extremely flexible planning of bathroom and living areas by means of a wide-ranging collection of grab handles, drop-down support rails and seats that can be combined with a host of different accessories, thus adding specific functions to them.

The range of functional and coordinated add-on products features slide rails with shower head holders, care-oriented products such as splash guards and safety belts, through to classic bathroom accessories such as towel rails, shelves and mirrors. By way of example, at this point we would like to present you with a selection of products from the different sanitary application areas.

One-handed operation and child's play to use: the shower head holder

Proof that the ErgoSystem®, as well as being a complete barrier-free system from a single source, can equally be operated with one hand, is provided by the new shower head holder, which consistently espouses the FSB philosophy of safe gripping.

Its height, tilt and direction can be conveniently adjusted using one hand, leaving one hand free so that the user can hold on to a grab handle. The retention mechanism is released without having to either rotate the hand or exert any notable force. Once the retainer has been released, our multi-award winning shower head holder rests safely in the user's hand, as if of its own volition. Find out more on page 652f.

The design permeating our ErgoSystem® continues in the washstand area: the ergonomic principle of a tilted oval handle cross-section is reiterated here in the form of a toothbrush mug angled slightly towards the user. The mug's conical styling allows it to be safely removed and accurately replaced. The tilting mirror in turn is strikingly less conspicuous compared to other products on the market. Its understated, pared-down design is devoid of visible adjusting devices and assiduously exemplifies FSB's approach to styling and finish. Once again, user-friendliness enjoys top priority: the ease of action of the mirror's tilt adjustment mechanism can be pre-set as required. The maximum angle of tilt has been optimised with a view to



6b

minimising image distortion. The astutely conceived mirror height ensures that there is eye contact between the (wheelchair-) seated patient and the carer behind, which is good for interpersonal care aspects.

**Elementary part of the system:
the “diagonal-oval” handle range**

The basis of the ErgoSystem® is the diagonal-oval handle range in a variety of versions and lengths for all conceivable areas of application. Particularly characteristic of ErgoSystem® components for WC areas is a design geared down to the last detail towards simplifying complex sequences of movements.

A key element are the fixed and drop-down support rails adapted to the most varied of usage concepts; they are made of unsurpassedly rugged, corrosion-resistant stainless steel that is virtually immune to denting and scratches even under the most exacting forms of continuous use. The elegant shaping of the elliptical handles combines with the neutral design of the connecting elements to lend the products a light and sophisticated appearance.

The discreet light and ambience reflections on the fine matt brushed stainless steel surfaces integrate the ErgoSystem® components aesthetically and coherently in any bathroom and home interior. Combined with the anthracite-coloured (RAL 7021), powder-coated supports, the support rails are also optimised in terms of luminance and contrast.

Flexible assembly and demand-oriented use thanks to A-Flex

A-Flex is the name of the new assembly system for drop-down support rails and foldaway shower seats in the ErgoSystem®, with which you can flexibly and quickly adapt to individual or acutely changing needs of guests and patients. A-Flex facilitates flexible application and fixing in equal measure. The relevant spaces are fitted out with just the wall-mounted A-Flex support element complete with covering plate. The drop-down support rail or foldaway shower seat set up in this way is slotted into the support plate as required and is ready for use in a jiffy. Find out more about A-Flex on page 676f.





System features and system benefits

System features

- FSB's ErgoSystem® conforms to all sections of DIN 18 040.
- The ErgoSystem® is certified according to TÜV/GS (product safety) and TÜV/ GGT (comfort & quality).
- High corrosion resistance thanks to stainless steel handle components. This alloy is virtually immune to denting and scratches even under the most exacting forms of continuous use and guarantees top hygiene properties.
- Hands fit snugly due to the unique elliptical styling of the grip section, which observes the laws of anatomy.
- Due to the oval cross-section, demonstrably less force needs to be exerted both when taking hold of a handle and gripping it firmly.
- Ensuring optimum transmission of forces is the 45° tilt in the handle cross section, which in line with the rules of ergonomics allows the hardware to be taken hold of to form a triangle between hand, shoulder and the body's vertical axis.
- The consistent and uniform design concept underpinning the ErgoSystem® impresses with striking design elements right through to the line of accessories.

System benefits

- The ErgoSystem's modular concept, variety of products and plethora of retrofittable accessories and complementary components enable flexible responses to changing conditions during planning and use:
- ErgoSystem® grab handles can be supplied in non-standard dimensions on request, so consideration can be given to specific requirements.
 - Handrail combinations in standard lengths or as system building blocks ensure optimum solutions in any area of application.
 - Continuous radii with no sharp edges combine with concealed fixings to meet hygiene requirements.
 - Barrier-free handle system aimed strictly at the target group, which exceeds normal market requirements in terms of planning, equipment and use owing to its proven ergonomic and design merits.
 - Custom dimensions and colours are possible, see page 678f.
 - Anti-suicide versions of relevant accessory elements can be supplied, see page 680f.
 - Flexible attachment of components with A-Flex solution if required, see page 676f.

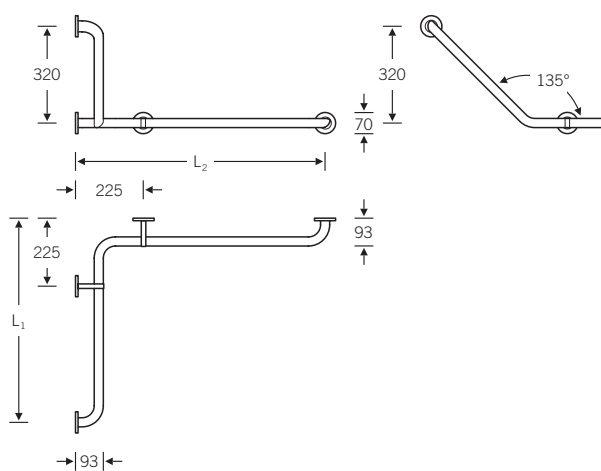
Planning benefits

- The matching range of accessories guarantees an aesthetically harmonious integration of the system into architectural surroundings.
- With its sleek looks and a brushed matt stainless steel finish that discreetly reflects the surrounding colours, the ErgoSystem® unobtrusively blends in with bespoke bathroom environments.
- Its premium design quality takes account of the aesthetic requirements of a new generation of "youthful seniors".
- A high level of user acceptancy is brought about by a wide variety of ergonomically-driven fine detail in all product groups right through to the accessories, which afford users a maximum level of convenience as well as assisting them in everyday sequences of movements.
- The ErgoSystem's modular concept enables flexible responses to changing conditions during planning and use.
- Its standard fittings and complementary products guarantee a differentiation in terms of interior fittings, e.g. for "optional services areas".
- FSB's proximity to the market and production location in Germany allow it to deliver bespoke solutions and innovations promptly and flexibly.

6b



82 8213 ■



fsb.de/828213

		L ₁	L ₂
82 8213 00101	r. h.	675	675
82 8213 00102	l. h.	675	675
82 8213 00201	r. h.	825	675
82 8213 00202	l. h.	675	825

Handrail configuration

Suitable for suspended seat 82 8250,
see page 642f.

Illustration: left



6b

The handing of angled rails and handrail configurations relates to the view into the corner of the space: angled rails indicated as being “lefthand” are designed for use on lefthand walls from this perspective and vice versa.

Individually produced handrails on request, see page 678f.

82 8211 ■

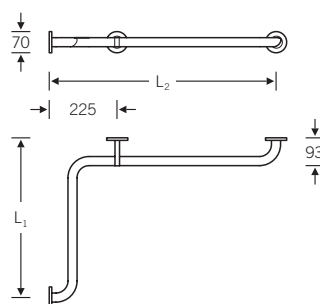


		L ₁	L ₂
82 8211 00101	r. h.	528	750
82 8211 00102	l. h.	528	750
82 8211 00201	r. h.	528	975
82 8211 00202	l. h.	528	975
82 8211 00301	r. h.	750	750
82 8211 00302	l. h.	750	750

Handrail configuration

Suspended seat in the left segment only permitted for version with floor support (82 8250 00001, see page 642)

Illustration: left



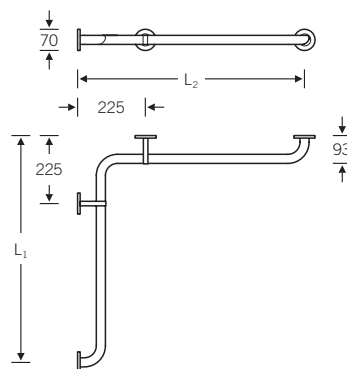
82 8212 ■



		L ₁	L ₂
82 8212 00100		750	750
82 8212 00200		975	975
82 8212 00301	r. h.	750	1125
82 8212 00302	l. h.	750	1125

Handrail configuration

Suitable for suspended seat 82 8250, see page 642f.



fsb.de/828211
fsb.de/828212

The handing of angled rails and handrail configurations relates to the view into the corner of the space: angled rails indicated as being "lefthand" are designed for use on lefthand walls from this perspective and vice versa.

Individually produced handrails on request, see page 678f.

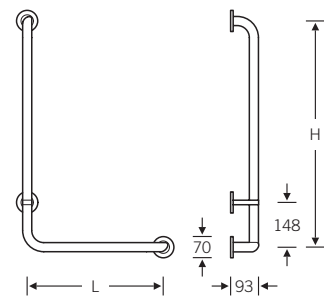
82 8210 ■



		H	L
82 8210 00201	r.h.	1048	450
82 8210 00202	l.h.	1048	450
82 8210 00301	r.h.	1198	600
82 8210 00302	l.h.	1198	600

Angled rail

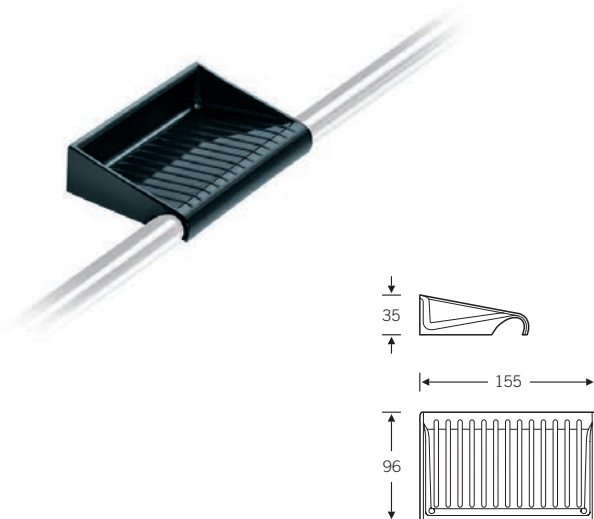
Illustration: left



82 8260

82 8260 00039

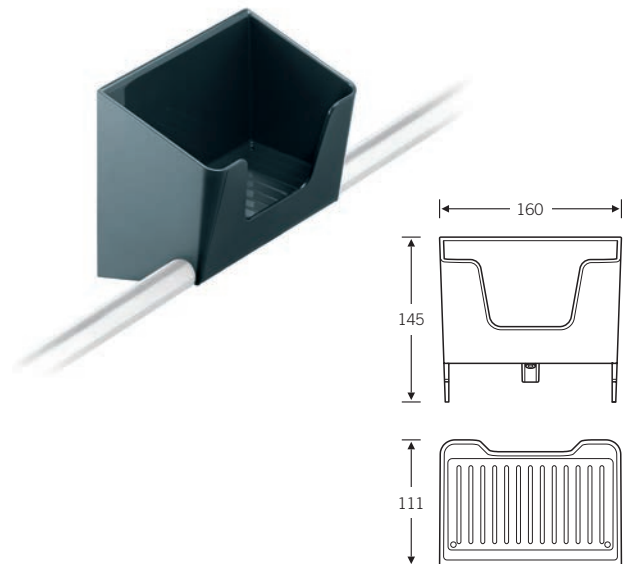
Plastic tray



82 8260 00039

82 8260 00059

Plastic clip-on tray with anti-theft device



82 8260 00059

fsb.de/828210
fsb.de/828260

The handing of angled rails and handrail configurations relates to the view into the corner of the space: angled rails indicated as being "lefthand" are designed for use on lefthand walls from this perspective and vice versa.

Individually produced handrails on request, see page 678f.

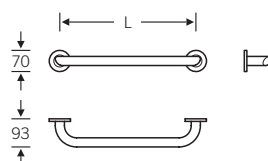
82 8201 ■



82 8201 03000 (L = 300 mm)
82 8201 04500 (L = 450 mm)
82 8201 06000 (L = 600 mm)
82 8201 09000 (L = 900 mm)

Grab handle

Suitable for suspended seat 82 8250,
see page 642 f.



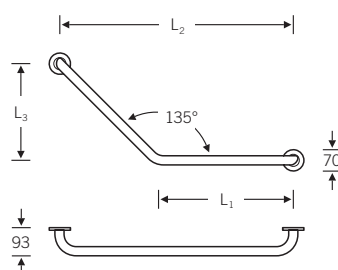
82 8202 ■



	L ₁	L ₂	L ₃
82 8202 05120	300	512	210
82 8202 07720	450	772	320

Angled rail

with identical side lengths, the angled rail
can be used equally pointing right or left



fsb.de/828201
fsb.de/828202

The handing of angled rails and handrail configurations relates to the view into the corner of the space: angled rails indicated as being "lefthand" are designed for use on lefthand walls from this perspective and vice versa.

Individually produced handrails on request, see page 678 f.

82 8203 ■

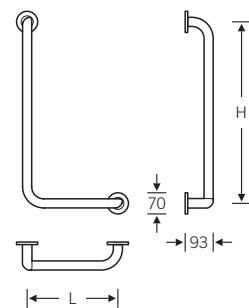
		L	H
82 8203 03000		300	300
82 8203 06001	r.h.	300	600
82 8203 06002	l.h.	300	600

Angled rail

Illustration: left




6b



fsb.de/828203

The handing of angled rails and handrail configurations relates to the view into the corner of the space: angled rails indicated as being "lefthand" are designed for use on lefthand walls from this perspective and vice versa.

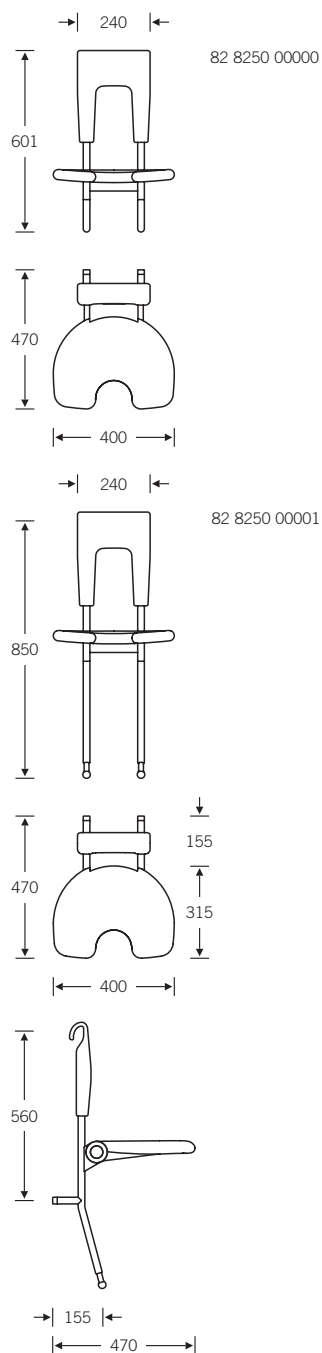
Individually produced handrails on request, see page 678f.

82 8250  Seat section PUR

82 8250 00000 (wall-mounted support)
82 8250 00001 (wall-/floor-mounted support)

Suspended seat for grab handles
(length from 450 mm), with spring-assisted
folding mechanism and grip hold at the
top of backrest

Loading capacity to 150 kg



reddot design award
winner 2008

fsb.de/828250

Shower and bath area

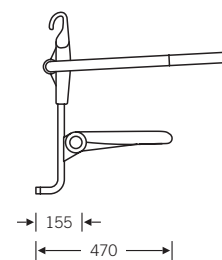
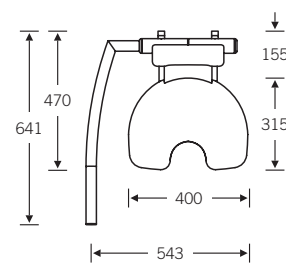
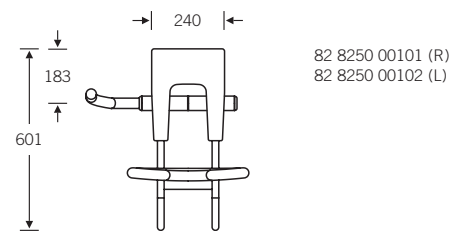
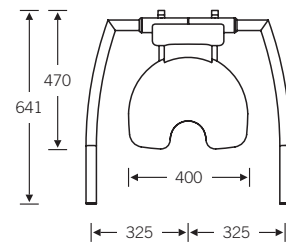
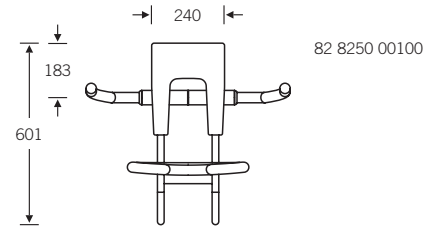
For planning information see page 697f.
Tender specifications: fsb.de/ergosystem

82 8250 ■ Seat section PUR

82 8250 00100 (armrest on both sides)
82 8250 00101 (armrest on right)
82 8250 00102 (armrest on left)

Suspended seat wall-mounted
like 82 8250 00000, but with arm-rests
on one or both sides (illustration: armrest
on left)

Loading capacity for seat 150 kg
Loading capacity for armrest 50 kg



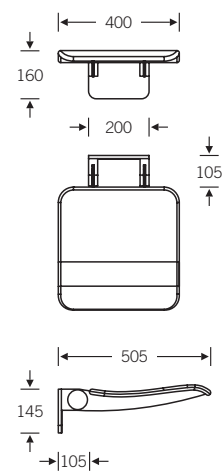
fsb.de/828250

82 8251  Seat section PUR

Folding shower seat
with rectangular seat section

A-Flex solution 82 8251 00001
for flexible fitting e.g. in hotels or optional
service areas, see page 676 f.

Loading capacity to 150 kg



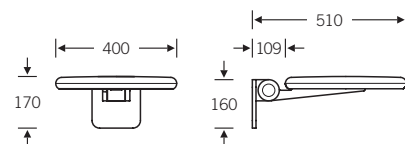
fsb.de/828251

82 8244 ■ Seat section PUR

Folding shower seat
with pivotable seat section

A-Flex solution 82 8251 00001
for flexible fitting e.g. in hotels or optional
service areas, see page 676f.

Loading capacity to 150 kg



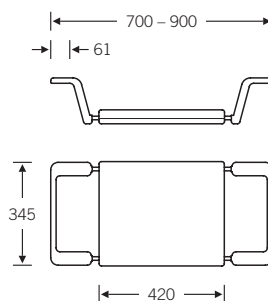
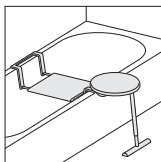
82 8240 ■ Seat section PUR

Suspended bath seat

6b

Can be used for bath tub dimensions:
70 × 170 cm
75 × 170 cm
80 × 170–210 cm
85 × 170–210 cm
90 × 170–210 cm

Loading capacity to 150 kg



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fsb.de/828240

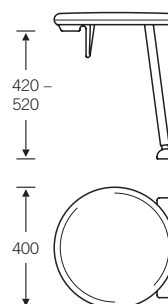
82 8241  Seat section PUR


82 8241 00000 (without suspension bracket)
82 8241 01000 (with suspension bracket)

Shower and bath stool
with pivotable seat section

Stool locked in place on suspension bracket by means of a corresponding groove on the underneath of the seat

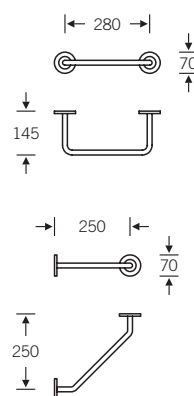
Loading capacity to 150 kg



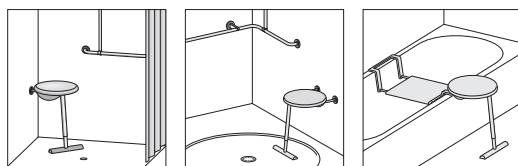
82 8242 

82 8242 00000 (for wall mounting)
82 8242 00001 (for corner mounting)

Suspension bracket
for shower and bath stool



fsb.de/828241



fsb.de/828242

82 8243  Seat section PUR

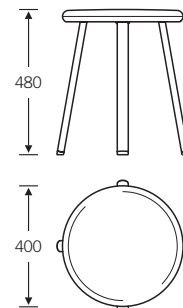
Stool
with pivotable seat section

The free-standing stool has a pivotable seat section and provides a high level of comfort in the bathroom and changing area.

Loading capacity to 150 kg



6b



82 8260 ■

82 8260 00033

Walking aid holder
for universal positioning and use in the home



fsb.de/828260

82 8290

82 8290 00011

Safety belt for securing persons

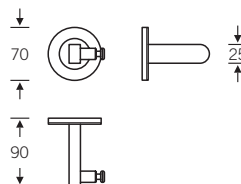
Can be combined with WC drop-down
support rail 82 8224 085 or belt holder
82 8290 00016



82 8290

82 8290 00016

Belt holder

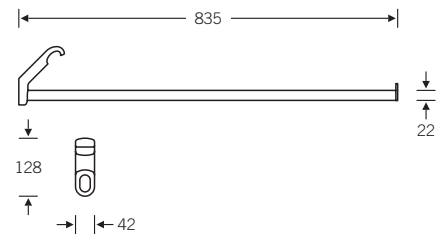


fsb.de/828290

82 8249 ■



Splash guard holder
for shower, hooks onto FSB grabs and
handrail configurations



82 8236 Textile



82 8236 00850

Shower splash guard
with fastening loops, for use on FSB
drop-down support rails 850 mm long,
see page 668f.

Width = 900 mm | Height = 720 mm



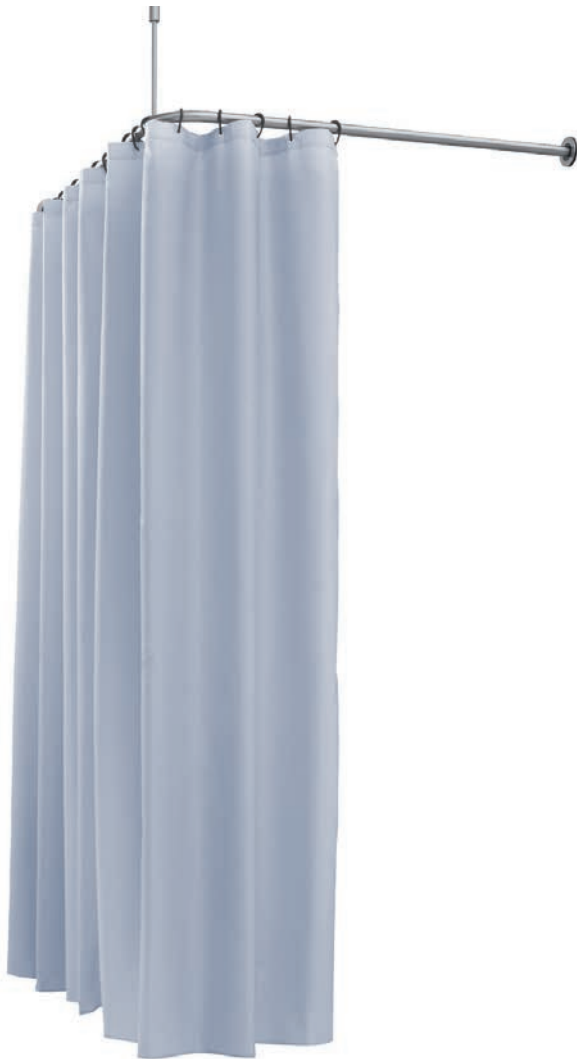
8200
magicwhite

9000
white

8800
manhattan

fsb.de/828249
fsb.de/828236

82 8238 | 82 8235 ■

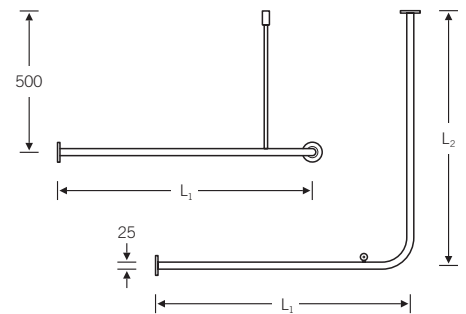


	L ₁	L ₂
82 8238 01000 (16 rings)	1000	1000
82 8238 01200 (24 rings)	1200	1200
82 8238 01500 (24 rings)	1500	1500

Shower curtain rail round a corner with curtain rings (ceiling connector and shower curtain rail can be shortened on site)

Same, but as an anti-suicide version due to reusable click-in mechanism on the ceiling connector:

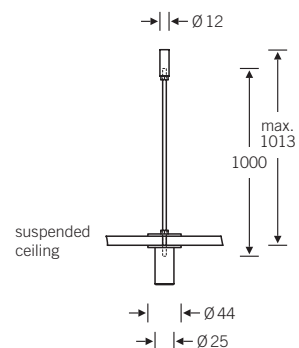
	L ₁	L ₂
82 8235 01000 (16 rings)	1000	1000
82 8235 01200 (24 rings)	1200	1200
82 8235 01500 (24 rings)	1500	1500



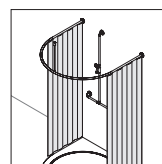
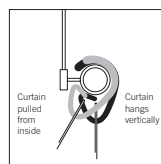
82 8299

82 8299 00012

Ceiling connector for suspended ceilings (can be shortened on site)



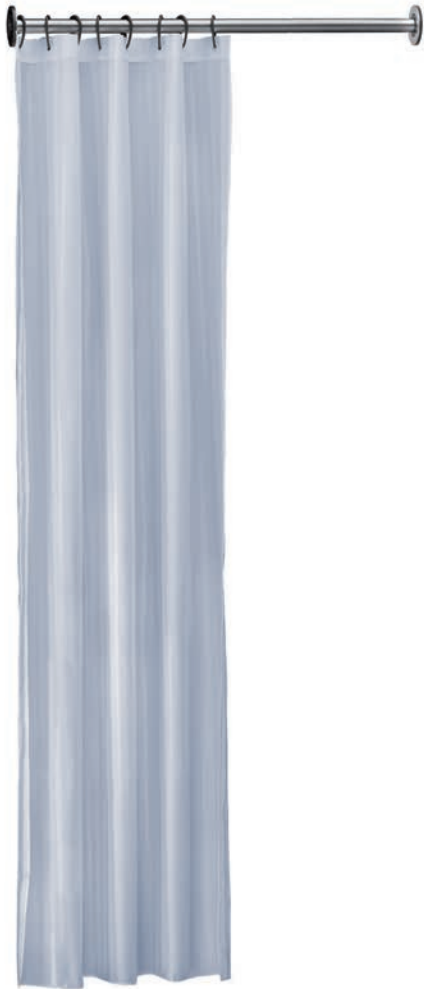
fsb.de/828238
fsb.de/828235
fsb.de/828299



Curtain designs see page 649

The curtain rings do not get caught on the ceiling suspension even when operated with one hand. Curtain rails available in U-shape or circular on request.

82 8234 | 82 8233 ■



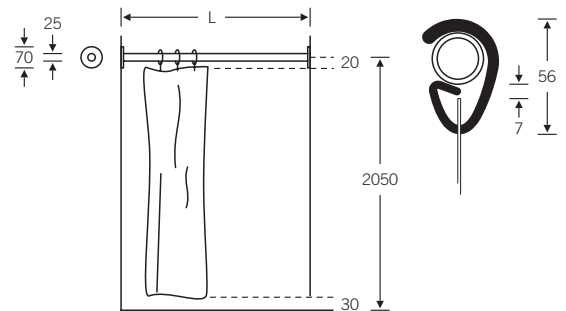
82 8234 00900 (L = 900 mm, 8 rings)
82 8234 01200 (L = 1200 mm, 16 rings)
82 8234 01500 (L = 1500 mm, 16 rings)
82 8234 01800 (L = 1800 mm, 16 rings)

Shower curtain rail
with curtain rings for alcoves
(can be shortened on site)

Same, but as an anti-suicide version due
to reusable click-in mechanism:

82 8233 00900 (L = 900 mm, 8 rings)
82 8233 01200 (L = 1200 mm, 16 rings)
82 8233 01500 (L = 1500 mm, 16 rings)
82 8233 01800 (L = 1800 mm, 16 rings)

The gap between the centre of the rail
and the curtain is 20 mm and should be
30 mm to the floor, see illustration.



82 8237 Textile

	L	H
82 8237 01200	1200	2000
82 8237 01800	1800	2000
82 8237 02400	2400	2000

Shower curtain with attachment eyelets

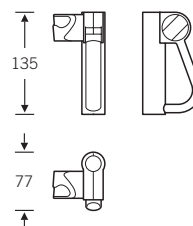
Note:
Shower curtain rails running round
a corner require two curtains



The new shower head holder enables convenient showering: it combines an ergonomically shaped handle that is safe and easy to operate without any turning action involved and features a maintenance-free, continuously adjustable height and tilt mechanism.

The shower head holder can be conveniently adjusted with one hand – leaving the other free at all times and giving the user the opportunity, for instance, to hold on to a grab handle.

The shower head holder can be converted on site from “right” to “left”.



reddot design award
winner 2008

Innovationspreis
architecture + health



82 8239 | 82 8260 ■

82 8239 01048 (L = 1048 mm)
82 8239 01198 (L = 1198 mm)

Sliding shower rail with shower head holder for fitting to grabs and handrail configurations

82 8260 00050 for wall assembly
(L = 900 mm)

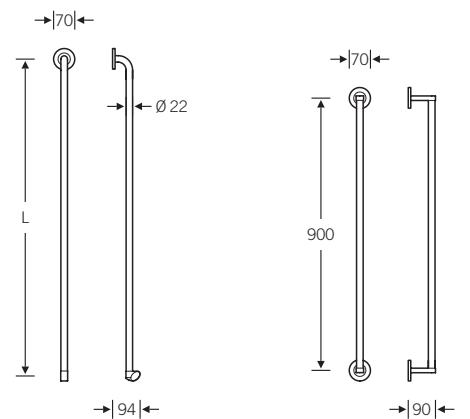
Different lengths possible to match tile spacing, to use/cover existing drill holes or at individual customer request. Please send us a dimensioned sketch for this purpose.



The position is fixed using a double-sided adhesive strip supplied, which is glued during assembly between the plastic connection and oval tube.

Matching grabs and handrail combinations (not included in delivery) see page 636f.

6b



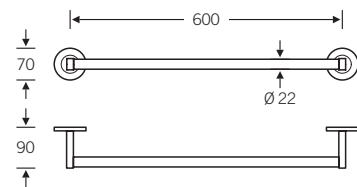
82 8239

82 8260 00050

82 8260 ■

82 8260 00011

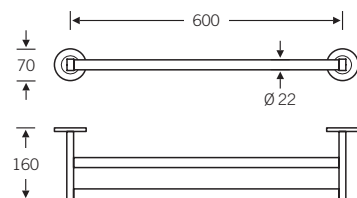
Bath towel rail



82 8260 ■

82 8260 00021

Twin bath towel rail



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You can find the FSB METRIC® range of accessories on pages 688 f.

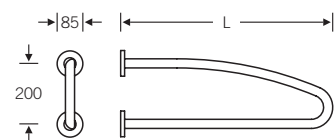
656 Washstands and bathroom accessories

82 8220 ■

		L
⊙	82 8220 06001	r.h. 600
⊙	82 8220 06002	l.h. 600
⊙	82 8220 07001	r.h. 700
⊙	82 8220 07002	l.h. 700

Wall-mounted support rail

Illustration: left



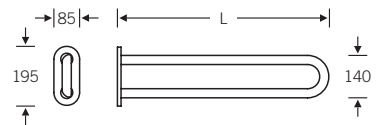
fsb.de/828220

All hardware bearing either the ⊙ “righthand” or ⊙ “lefthand” symbol needs to be ordered and fitted to suit the relevant handing. The relevant view is that towards the washstand/WC: the “righthand” model is for fitting to the right of the washstand/WC and vice versa.

82 8221 ■

82 8221 06000 (L = 600 mm)
82 8221 07000 (L = 700 mm)

Wall-mounted support rail
non-handed



82 8224 ■

			L
⊙	82 8224 06011	r.h.	600
⊙	82 8224 06012	l.h.	600
⊙	82 8224 07011	r.h.	700
⊙	82 8224 07012	l.h.	700

Drop-down support rail
with spring loading, ease of action adjustable as required

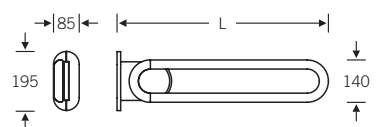
Compatible with TECEprofile 9.042.011

Loading capacity to 100 kg at leading edge

Optional accessory: wall bracket as an adapter solution for subsequently fitting support rails and drop-down support rails 82 8227 00001 (85 × 195 mm)



Illustration: left



fsb.de/828221
fsb.de/828224

Fastening material included in delivery

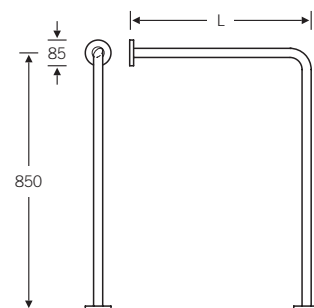
82 8225 ■

L

⊙ 82 8225 06001	r.h.	600
⊙ 82 8225 06002	l.h.	600
⊙ 82 8225 07001	r.h.	700
⊙ 82 8225 07002	l.h.	700

Floor/wall-mounted support rail

Illustration: left



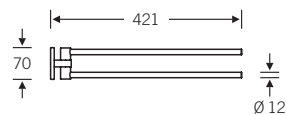
fsb.de/828225

All hardware bearing either the ⊙ “right-hand” or ⊙ “lefthand” symbol needs to be ordered and fitted to suit the relevant handing. The relevant view is that towards the washstand/WC: the “righthand” model is for fitting to the right of the washstand/WC and vice versa.

82 8260 ■

82 8260 00010

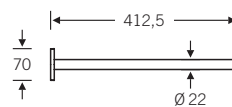
Hand towel rail
with dual swivel capacity



82 8260 ■

82 8260 00012

Hand towel rail
fixed position

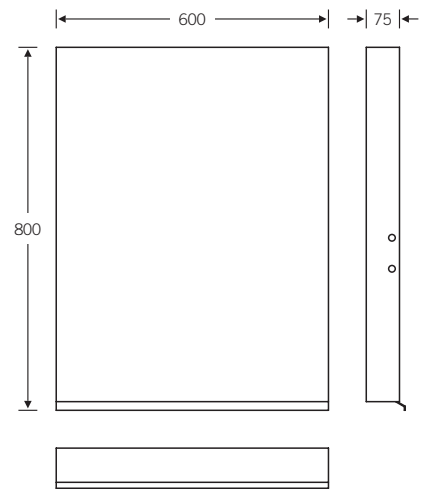


fsb.de/828260

82 8260 ■

82 8260 00053

Tilting mirror
with angle of tilt adjustable from 0° to 12°,
easy-action and customisable operation
using luminance contrast-optimised
handle bar



reddot design award
winner 2008

fsb.de/828260

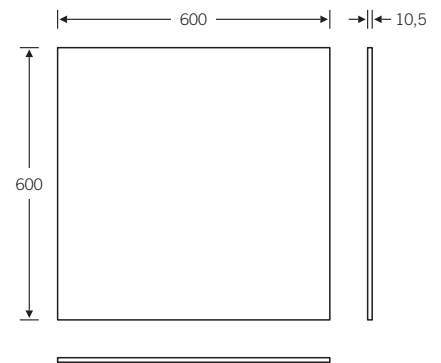
82 8260 ■

82 8260 00054 (450 × 450 mm)
82 8260 00055 (600 × 600 mm)
82 8260 00056 (600 × 450 mm)

Wall mirror
in mirror-polished stainless steel
incl. mounting plate

Vandalism-proof due to glass-free mirror
face

Metal thickness 1.5 mm



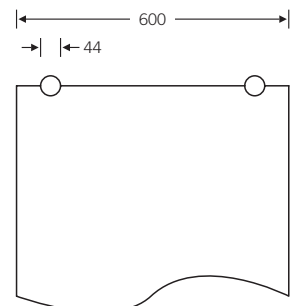
82 8260

82 8260 00051

6b

Wall mirror
Glass thickness 6 mm,
with 4 mirror holders, see page 662

1000 × 600 mm



fsb.de/828260

Washstands

Bathroom accessories

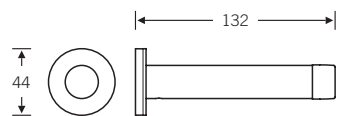
For planning information see page 697 f.
Tender specifications: fsb.de/ergosystem

82 8260 ■

82 8260 00003

Wall buffer

Shorter sizes possible on request

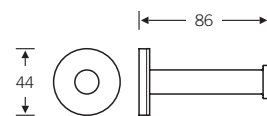


82 8260 ■

82 8260 00006

Coat hook

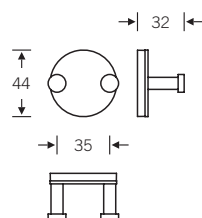
(Matching wall hook see page 664)



82 8260 ■

82 8260 00004

Hand towel hook, duo



82 8260 ■

82 8260 00052

Mirror holders (× 4)
for 6 mm glass thickness



fsb.de/828260

Washstands

Bathroom accessories

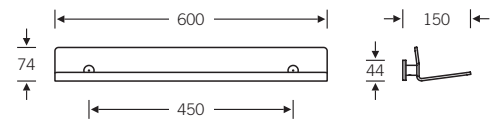
For planning information see page 697f.
Tender specifications: fsb.de/ergosystem

82 8260 ■



82 8260 00015

Utensils shelf
with slight inclination towards the wall
and non-slip plastic surface for the safe
deposit of items

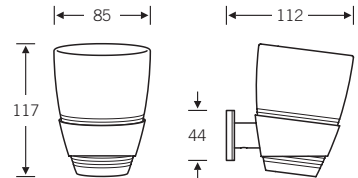


82 8260 ■



82 8260 00041

Mug holder with plastic mug



6b

82 8260 ■



82 8260 00040

Soap holder with plastic soap dish



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You can find the FSB METRIC® range of
accessories on pages 688f.

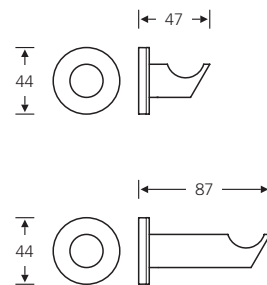
Washstands

Bathroom accessories

For planning information see page 697 f.
Tender specifications: fsb.de/ergosystem

82 8260 ■

82 8260 00001 (wall hook)
82 8260 00002 (coat hook)



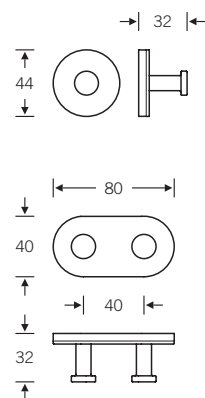
82 8260 ■

82 8260 00005 (wall hook)
82 8260 00007 (double wall hook)

(Matching coat hook see page 662)

Same, but as an anti-suicide version due to reusable clip fastening:

82 8260 01005 (wall hook)
82 8260 01007 (double wall hook)



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You can find the FSB METRIC® range of accessories on pages 688 f.

Washstands

Bathroom accessories

For planning information see page 697f.
Tender specifications: fsb.de/ergosystem

82 8260 ■



82 8260 00001 (wall hook)

Colour finishes

RAL 1018 (yellow)
RAL 3002 (red)
RAL 5002 (blue)



82 8260 ■



82 8260 00005 (wall hook)

82 8260 00005 (wall hook)

82 8260 00006 (coat hook)

82 8260 00007 (double wall hook)

Colour finishes

RAL 1018 (yellow)*
RAL 3002 (red)*
RAL 5002 (blue)*

Cupboard identifiers with customised engraving or laser engraving to match the colour of wall and coat hooks on request

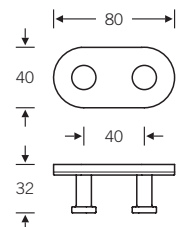
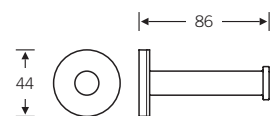
6b



82 8260 00006 (coat hook)



82 8260 00007 (double wall hook)



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* Standard colours, further RAL colours for an added charge. Please quote the RAL colour desired with orders and invitations to tender.

You can find the FSB METRIC® range of accessories on pages 688f.

Wall-mounted waste bin

For planning information see page 697 f.
Tender specifications: fsb.de/ergosystem

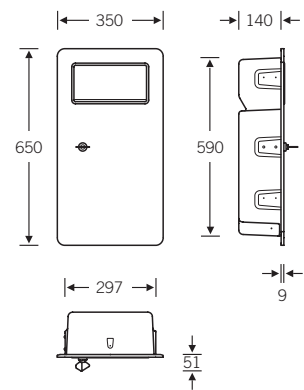


82 8290 ■

82 8290 00048 (right, lock on left)
82 8290 00049 (left, lock on right)

Lockable wall-mounted waste bin,
right or left-hand version, 12 litre capacity

Illustration: right



fsb.de/828290

82 8224 ■

		L
☉	82 8224 06001	r.h. 600
☉	82 8224 06002	l.h. 600
☉	82 8224 07001	r.h. 700
☉	82 8224 07002	l.h. 700
☉	82 8224 08501	r.h. 850
☉	82 8224 08502	l.h. 850
☉	82 8224 09001	r.h. 900
☉	82 8224 09002	l.h. 900

Drop-down support rail
with spring loading, ease of action adjust-
able as required

Compatible with TECE Geronto module or
TECEprofile 9.042.016

Custom lengths up to 900 mm can be
supplied

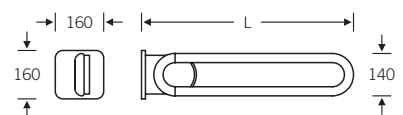
Loading capacity to 100 kg at leading edge

Illustration: left



Optional accessory: wall bracket as an
adapter solution for subsequently fitting
support rails and drop-down support rails
82 8227 00000 (160 x 160 mm)

A-Flex solution for flexible fitting
e. g. in hotels or optional service areas
see page 676 f.



fsb.de/828224

Fastening material included in delivery

All hardware bearing either the ☉ “right-hand” or ☉ “lefthand” symbol needs to be ordered and fitted to suit the relevant handing. The relevant view is that towards the washstand/WC: the “righthand” model is for fitting to the right of the washstand/WC and vice versa.

82 8224 ■

- ⊙ 82 8224 08531 (r. h.)
- ⊙ 82 8224 08532 (l. h.)

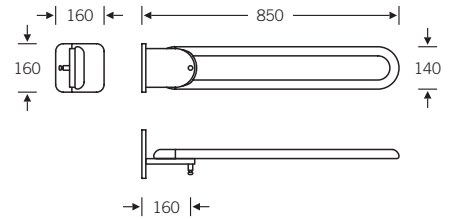
Drop-down support rail designed to take the holding eyelets on belt holder 82 8290 00011

Compatible with TECE Geronto module or TECEprofile 9.042.016

Custom lengths from 600 mm up to 900 mm can be supplied

Loading capacity to 100 kg at leading edge

Illustration: right



6b

82 8290

82 8290 00011

Safety belt for securing persons on the WC, only in combination with 82 8224 085

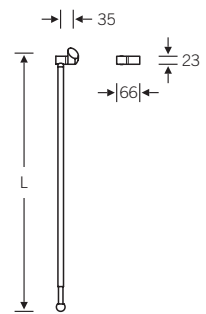


fsb.de/828224
fsb.de/828290

82 8228

82 8228 00001 (r. h.)
82 8228 00002 (l. h.)

Support leg for FSB drop-down support rails, to increase the bearing load by approx. 50 kg
Note: not suitable for public areas



fsb.de/828228

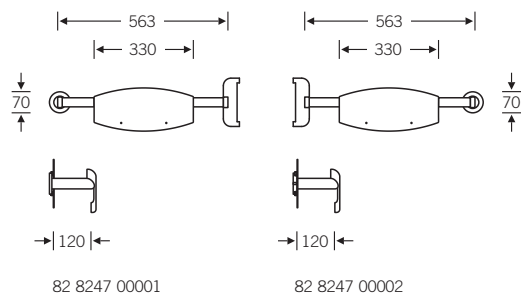
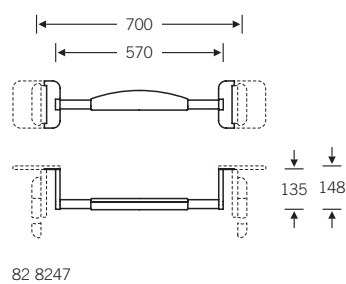
82 8247 ■ PUR

82 8247 (for two drop-down support rails)
82 8247 00001 (solo rose r. h.)
82 8247 00002 (solo rose l. h.)

Backrest
for subsequent fitting on drop-down support rails, variants with solo rose for confined spaces or for use with single support rail. Special version combined with safety belt 82 8290 00011 available on request. If combining with drop-down support rail 82 8224 please indicate when ordering.

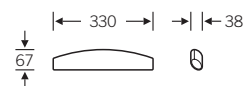


Illustration:
1 x backrest 82 8247
2 x drop-down support rail 82 8224



82 8246 PUR

Armrest
for fitting on support and grab handles



fsb.de/828247
fsb.de/828246

82 8224 ■



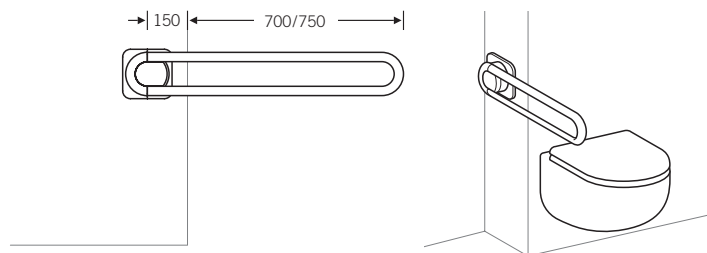
		L
⊙	82 8224 07021	r.h. 930
⊙	82 8224 07022	l.h. 930
⊙	82 8224 09021	r.h. 980
⊙	82 8224 09022	l.h. 980

Drop-down support rail for lateral assembly to reduce utility shaft widths for WC bowls projecting max. 550 mm

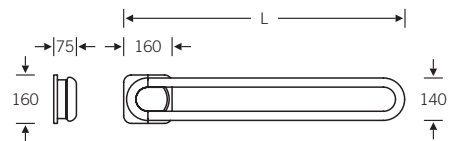
Loading capacity to 100 kg at leading edge

Illustration: left

A-Flex solution for flexible fitting e.g. in hotels or optional service areas see page 676f.

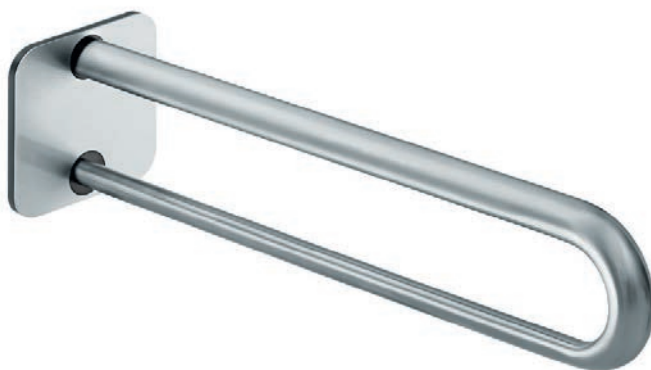


Fitting details



6b

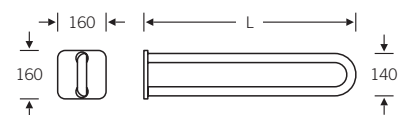
82 8222 ■



- 82 8222 07000 (L = 700 mm)
- 82 8222 08500 (L = 850 mm)
- 82 8222 09000 (L = 900 mm)

Wall-mounted support rail

non-handed



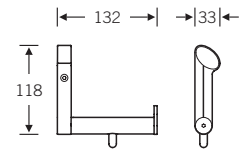
fsb.de/828224
fsb.de/828222

Fastening material included in delivery

82 8245 ■ Plastic

82 8245 00000

Toilet roll holder
for assembly on support rails and grabs



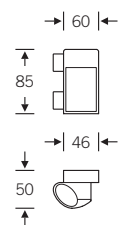
82 8248 ■ Plastic

82 8248 00002

Remote-controlled button
to trigger the WC flush

Compatible with TECE, Geberit, Viege etc.

Radio frequency 868.4 MHz



fsb.de/828245
fsb.de/828248

82 8224 ■



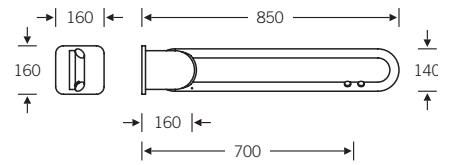
Drop-down sup. rail with functional buttons

right:
82 8224 08503 (blue/yellow, 1 × each)
82 8224 08505 (blue, 1 ×)
82 8224 08507 (yellow, 1 ×)

left:
82 8224 08504 (blue/yellow, 1 × each)
82 8224 08506 (blue, 1 ×)
82 8224 08508 (yellow, 1 ×)

Also available with red button for emergency call with opener function

Spiral cable length from outlet 1200 mm

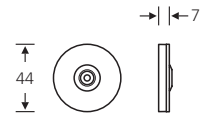


82 8248 ■



82 8248 00003

Surface-mounted socket for cable routing for drop-down support rail with functional buttons



82 8248 ■ Plastic

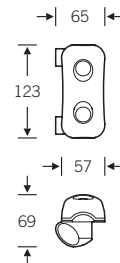


Bracket for pressing buttons for assembly on support rails and grabs, supplied without buttons

82 8248 00000 (for Mepa design)
82 8248 00001 (for Grohe design)

Other makes on request

Illustration: Mepa Sanicontrol 860

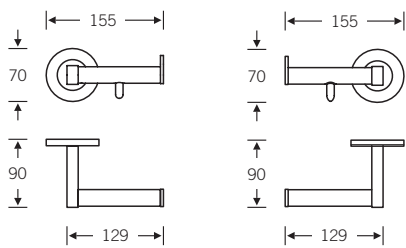


fsb.de/828224
fsb.de/828248

82 8260 ■

82 8260 00030 (r. h.)
82 8260 00130 (l. h.)

Toilet roll holder with roll brake



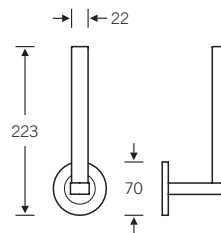
right hand

left hand

82 8260 ■

82 8260 00032

Spare toilet roll holder
for two toilet rolls

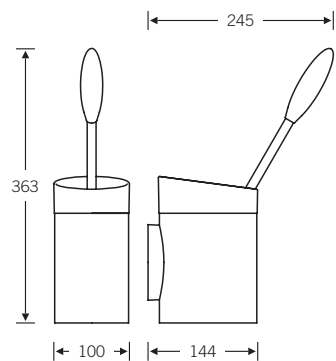


82 8260 ■ Plastic



82 8260 00042

WC brush set oval
with removable plastic insert, washable
up to 130 °C, brush head can be replaced
and ordered separately



fsb.de/828260

You can find the FSB METRIC® range
of accessories on pages 688 f.

676 Additional equipment

Compatible with TECE Geronto module or
TECEprofile 9.042.016



Flexible and modular

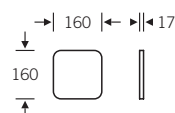
With A-Flex, FSB offers a well-conceived means of fitting spaces out with barrier-free components from the ErgoSystem® flexibly and according to demand.

A-Flex can be particularly recommended for hoteliers or operators of hospitals with optional service areas, offering them scope for catering to the individual or acutely changing needs of guests and patients. Cases in point are guests in a hotel who do not require barrier-free aids in the bathroom or for whom such aids suddenly become necessary due to an acute injury – e.g. at a winter sports resort. An additional benefit derives from significantly lower costs for the initial fit-out, as the spaces concerned merely need to be fitted with an A-Flex support plate and use can be made of drop-down support rails and foldaway shower seats just as in the standard scenario. The concept also convinced the jury of the Central Sanitary, Heating and Air Conditioning Association (ZVSHK) to give the A-Flex components the ZVSHK Award.

82 8227 ■

82 8227 00002

A-Flex support plate
incl. cover plate, for combination with
drop-down support rail 82 8224 0604. |
0704. | 0854. and folding shower seat
82 8244 00001



fsb.de/828227

All A-flex components are fitted with an anti-theft device.



82 8224 ■



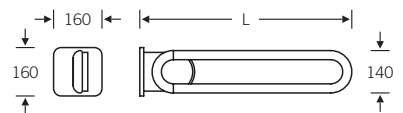
		L
⊙	82 8224 06041	r.h. 600
⊙	82 8224 06042	l.h. 600
⊙	82 8224 07041	r.h. 700
⊙	82 8224 07042	l.h. 700
⊙	82 8224 08541	r.h. 850
⊙	82 8224 08542	l.h. 850
⊙	82 8224 09041	r.h. 900
⊙	82 8224 09042	l.h. 900

A-Flex Drop-down support rail*
with spring loading, ease of action adjust-
able as required

Compatible with TECE Geronto module or
TECEprofile 9.042.016

Custom lengths available up to 900 mm

Loading capacity to 100 kg at leading
edge



82 8244 ■

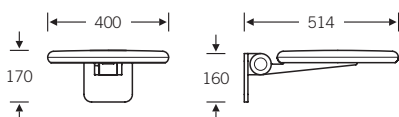
Seat section PUR

82 8244 00001

A-Flex Folding shower seat*
with pivotable seat section

With ball bearings and roll
brake

Loading capacity to 150 kg



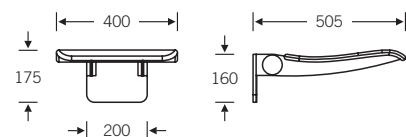
82 8251 ■

Seat section PUR

82 8251 00001

A-Flex Folding shower seat*
with rectangular seat sec-
tion

Loading capacity to 150 kg



fsb.de/828224
fsb.de/828244
fsb.de/828251

* The support plate 82 8227 (see page 676)
is not included in delivery and must be
ordered separately.

Custom handrails

Made-to-measure design
with standard coating



ErgoSystem® handrails made to measure

In years gone by, FSB has occasionally manufactured made-to-measure hand support systems for main entrance door areas in response to market demand. Comparable solutions are feasible for handrail designs, including those of a more complex variety, in hospitals and nursing homes.

Thus the unique diagonal-oval cross-section can also be harnessed for handrails. Special orders of this kind are not standard industrial products, however; rather, they are customised productions whose assembly and use lies in the client's sphere of responsibility. Assuming a suitable order volume, FSB is willing to provide you with specialists to draw up the measurements.

Please fax us your enquiries with dimensions. FSB will scrutinise these, produce a duplicate drawing and submit a quote. Please bear in mind that the maximum gap between two supports is 1.2 m.

Custom colours

Made-to-measure design
with bespoke coating



6b



Standard and bespoke coating

FSB sees itself first and foremost as a manufacturer of door and window hardware made of choice metals – which applies equally to its ErgoSystem®.

FSB can optionally coat all ErgoSystem® components made of aluminium, which are dark grey as standard, with almost any other colour in the RAL scale if so desired. ErgoSystem® heavy-duty fittings can then be made to match or, indeed, accentuate existing colour schemes. Please indicate the required RAL number with each enquiry.

Coating process

FSB adopts a solvent-free electrostatic powder-coating technique.

The resultant surface quality – colour fastness, surface hardness, resistance to wear etc. – is roughly that of anodised aluminium coatings. On grounds of product liability, however, we will not coat ErgoSystem® handle components made of stainless steel. Colour coating would take both ErgoSystem's aesthetic appearance and the indestructibility of the stainless steel surface to absurd levels.

Colour coatings will withstand regular use assuming items are properly fitted and used as intended. The surface may scratch if struck by hard, sharp-edged objects such as rings, tools, nursing or walking lifts etc.). Scratch marks have no affect, however, on the function of the fittings.



Fittings and equipment solutions for supervised areas. With a specific working paper, FSB documents its competence and many years of experience with products for prisons as well as forensic and psychiatric units.

fsb.de/jva

It goes without saying that these special fittings and equipment components fulfil the particular requirements of usability, robustness, protection against escape and vandalism plus anti-suicide design and have proven themselves many times over in practice.

Experience shows that establishments follow different safety concepts with specific key points and that, as a rule, a close and trusting coordination process with the safety experts responsible is necessary to develop specific fitting or equipment solutions. In this respect, we will omit at this point to comprehensively set out all the solutions developed for various institutions so far.

In order to develop and produce solutions that meet your specific requirements and requests without compromise, the tremendous manufacturing depth of FSB is at your disposal, as are the specialists from our development and design department.

Ask for the comprehensive brochure on the subject under info@fsb.de or fsb.de/brochures

Anti-suicide versions

For planning information see page 697f.
Tender specifications: fsb.de/ergosystem

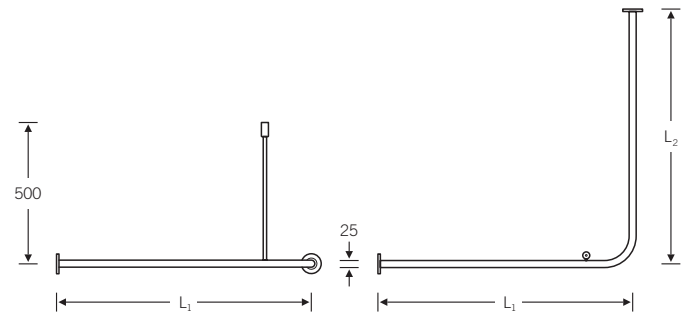
82 8235 ■



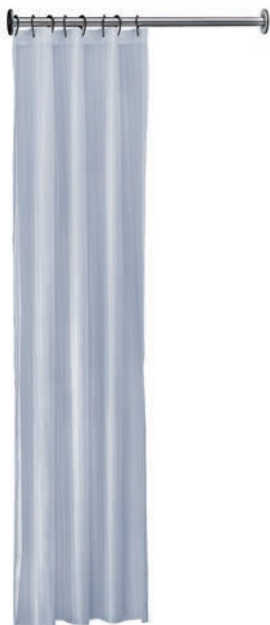
	L ₁	L ₂
82 8235 01000 (16 rings)	1000	1000
82 8235 01200 (24 rings)	1200	1200
82 8235 01500 (24 rings)	1500	1500

Shower curtain rail round a corner with curtain rings (ceiling connector can be shortened on site, rail cannot be shortened), see page 650

Anti-suicide version with reusable click-in mechanism on the ceiling connector



82 8233 ■

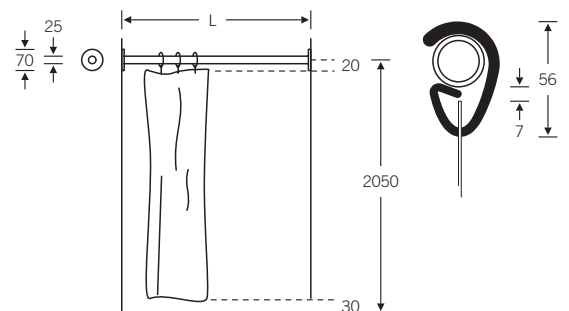


- 82 8233 00900 (L = 900 mm, 8 rings)
- 82 8233 01200 (L = 1200 mm, 16 rings)
- 82 8233 01500 (L = 1500 mm, 16 rings)
- 82 8233 01800 (L = 1800 mm, 16 rings)

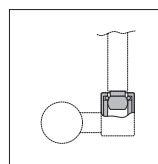
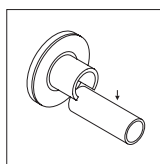
Shower curtain rail with curtain rings for alcoves (can be shortened on site), see page 651

Anti-suicide version with reusable click-in mechanism

The gap between the centre of the rail and the curtain is 20 mm and should be 30 mm to the floor, see illustration.



fsb.de/828235
fsb.de/828233



Curtain designs see page 649

A special snap-in clip mechanism is designed so that it falls out of the holder under a load of approx. 25 kg. It is possible to put it back together.

82 8259 ■



82 8259 01198

Sliding shower rail with shower head holder for fitting to grab handles and handrail configurations

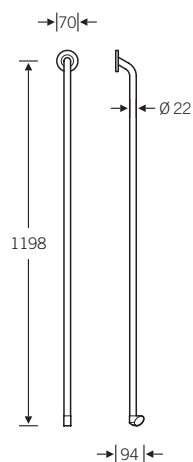
Anti-suicide version

The new shower head holder enables convenient showering: It combines an ergonomically shaped handle that is safe and easy to operate without any turning action involved and features a maintenance-free, continuously adjustable height and tilt mechanism. The shower head holder can be conveniently adjusted with one hand – leaving the other free at all times and giving the user the opportunity, for instance, to hold on to a grab handle.



The position is fixed using a double-sided adhesive strip supplied, which is glued during assembly between the plastic connection and oval tube.

Matching grabs and handrail combinations (not included in delivery) see page 636 f.



reddot design award
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Innovationspreis



architecture + health

fsb.de/828259

82 8260 ■

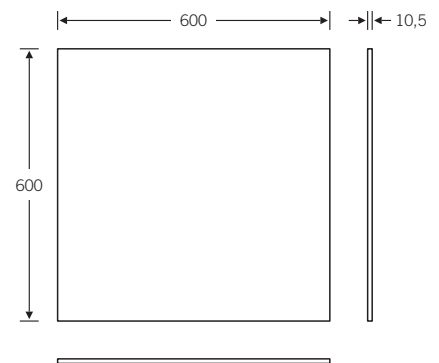


82 8260 00054 (450 × 450 mm)
82 8260 00055 (600 × 600 mm)
82 8260 00056 (600 × 450 mm)

Mirror
in mirror-polished stainless steel
incl. mounting plate

Vandalism-proof due to glass-free
mirror face

Metal thickness 1.5 mm



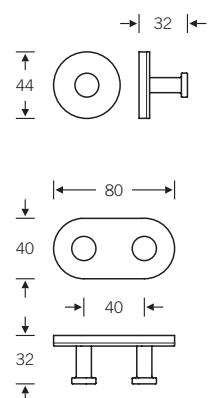
6b

82 8260 ■



82 8260 01005 (wall hook)
82 8260 01007 (double wall hook)

Anti-suicide version due to reuseable
clip fastening



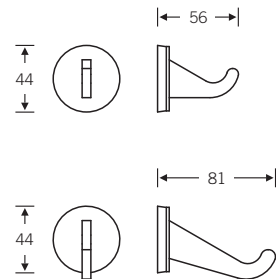
Anti-suicide versions

For planning information see page 697 f.
Tender specifications: fsb.de/ergosystem

82 8260 ■

82 8260 01008 (wall hook short)
82 8260 01009 (wall hook long)

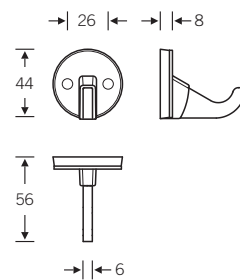
Anti-suicide version due to re-useable clip fastening



82 8260 ■

82 8260 00061

Folding hook, anti-suicide
Hook and faceplate cannot be dismantled*

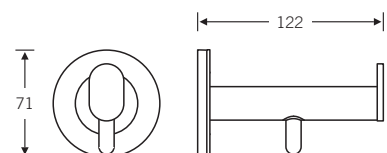


82 8260 ■

82 8260 01058

Toilet roll holder

Anti-suicide version due to re-useable clip fastening



fsb.de/828260

* The definition of the type of fastening is the responsibility of the specialist planner or operator in the application context. Fastening material (screws and plugs) not included in delivery.

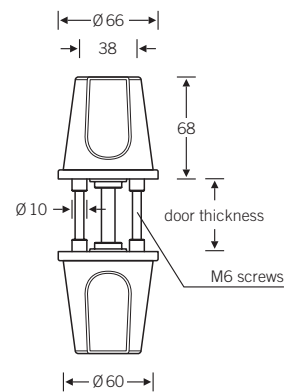
Fittings for supervised areas

96 2399 



Door knob in the form of a stub-ended cone with finger recesses in a particularly rugged design with a special rose enclosing the knob's shank. It is impossible to attach cords or ropes to the knob. Its ergonomic form guarantees good handling and lessens the likelihood of acts of suicide.

You can find the different versions of this door knob in the brochure mentioned below.



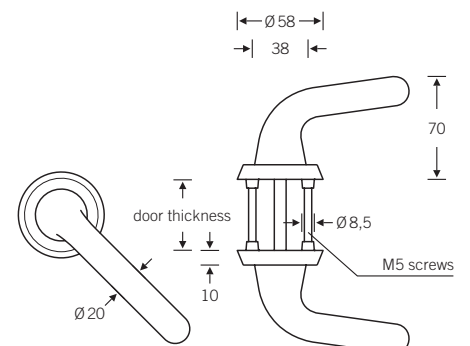
96 7099 



96 7099 00099 (r. h.)
96 7099 00100 (l. h.)

6b

Door handle set with conical neck and grip section angled 45° downwards on both sides. The bearing mechanism set in a conical shaped rose makes it impossible to attach cords or ropes and lessens the likelihood of acts of suicide. This particularly rugged design ensures safe use. Face fixing concealed by solid conical rose, lug \varnothing 8.5 mm.



Further special hardware and equipment solutions for prisons, forensic units and psychiatric establishments along with details of the products shown here can be found in a special brochure available for download from www.fsb.de/brochures

Overview

Utensile shelf
Page 690



Mug holder
Page 690



Soap dish
Page 690



Sliding shower rail
Page 694



Bath towel rail
Page 691



Bath towel rail
Page 691



Hand towel rail
Page 691



Toilet roll holder
Page 693



Spare toilet roll holder
Page 693



Spare toilet roll holder
Page 693



WC brush set oval
Page 692



WC brush set round
Page 692



Wall buffer
Page 695



Wall hook, coat hook
Page 695



METRIC®

Bathroom accessories

The bathroom is increasingly becoming a place for tranquillity and relaxation. As a result, notions of how such spaces are designed are having to be reconsidered too. The atmosphere of a space plays an increasingly important part alongside purely functional requirements.

Factors such as “natural quality”, “simplicity” and “wellbeing” are setting new standards both in the domestic sphere as well as in hotels and public areas. Growing significance is attached to the process of selecting and combining natural materials, finishes and colours. FSB is addressing this trend in the design of its METRIC® range of bathroom accessories.



The METRIC® design is deliberately understated, being defined by geometric shapes and high quality materials. The contrast between round roses and rectangular support profiles is a striking design feature that runs through the entire range. The combination of round functional parts and the supports made of rectangular profiles underscores the clear division of the system's constituent parts.

Its astutely balanced proportions have a soothing effect and blend harmoniously with a variety of design concepts. Ergonomic criteria have been taken into account wherever they are an aid to fluent sequences of movements. The holder for the toothbrush mug, for instance, tilts towards the user, thus making it easier to remove the mug.

METRIC® is supplied in stainless steel satin matt finish. Besides looking good, stainless steel boasts an authenticity that harmonises particularly well with natural materials such as wood or granite and is excellently suited to well-appointed bathroom schemes. Steel rightly lays claim to being exceedingly hard wearing, corrosion resistant, easy to look after and durable.

The quality with which FSB works stainless steel draws on decades of experience gained as a manufacturer of well-designed, finely machined hardware for doors and windows. This expertise has found its way into the design and production of the METRIC® range of bathroom accessories.

Fastenings

The base rose features two parallel longitudinal slots for optimum dimensional coordination and is screwed to the wall with the fastenings supplied. The cover rose is then placed on top and aligned with the patterning as required. The final optical adjustment of the working parts is performed by firmly tightening the socket screw against the tensioning bolt.

As an alternative to classic screw fastening, FSB offers a fitting method using high strength adhesive bonding removable without residue.



6c



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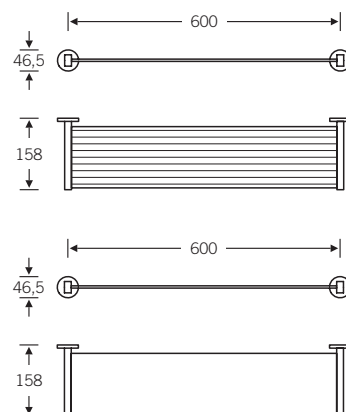
architecture + health

METRIC®
Bathroom accessories

82 8270 ■

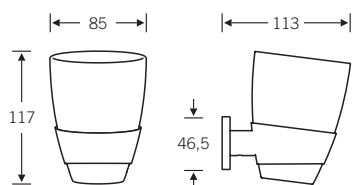


82 8270 00015 (glass with satin finish)
82 8270 08015 (same with adhesive bonding)
82 8270 00016 (clear glass)
82 8270 08016 (same with adhesive bonding)



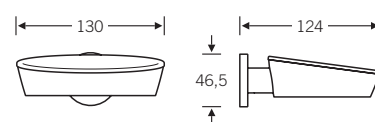
82 8270 ■

82 8270 00041 (Mug holder with glass)
82 8270 08041 (same with adhesive bonding)



82 8270 ■

82 8270 00040 (Soap holder with plastic soap dish)
82 8270 08040 (same with adhesive bonding)

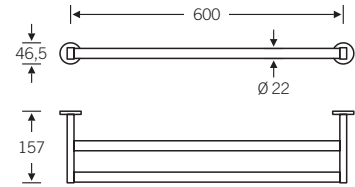


fsb.de/828270

82 8270 ■



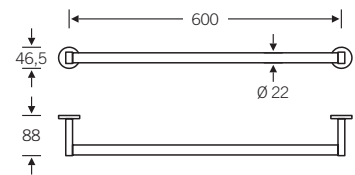
82 8270 00021 (Twin bath towel rail)
82 8270 08021 (same with adhesive bonding)



82 8270 ■



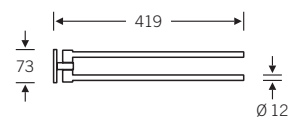
82 8270 00011 (Single bath towel rail)
82 8270 08011 (same with adhesive bonding)



82 8270 ■



82 8270 00010 (Twin hand towel holder, pivotable)
82 8270 08010 (same with adhesive bonding)

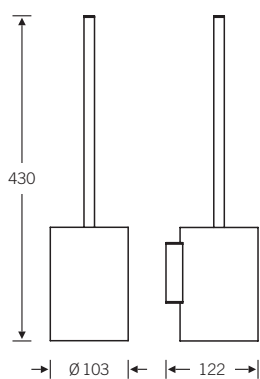


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82 8270 ■

82 8270 00043 (WC brush set round)
82 8270 08043 (same with adhesive bonding)

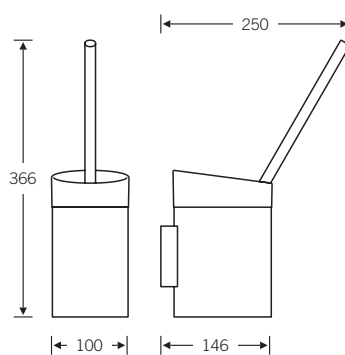
WC brush set round
with removable plastic insert*



82 8270 ■

82 8270 00042 (WC brush set oval)
82 8270 08042 (same with adhesive bonding)

WC brush set oval
with removable plastic insert*



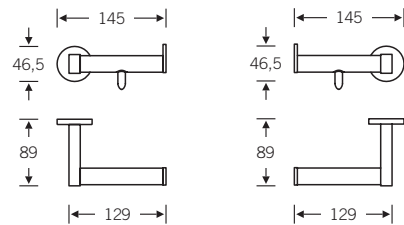
fsb.de/828270

* The removable plastic insert for the WC brush sets is washable up to 130 °C. The brush heads can be replaced and ordered separately.

82 8270 ■

82 8270 00030 (right) | 00130 (left)
Toilet roll holder with roll brake

82 8270 08030 (right) | 08130 (left)
same with adhesive bonding

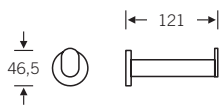


right hand

left hand

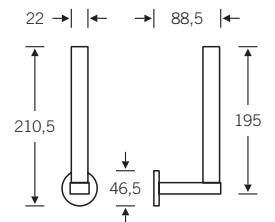
82 8270 ■

82 8270 00031 (Spare toilet roll holder for one roll)
82 8270 08031 (same with adhesive bonding)



82 8270 ■

82 8270 00032 (Spare toilet roll holder for two rolls)
82 8270 08032 (same with adhesive bonding)



82 8270 ■



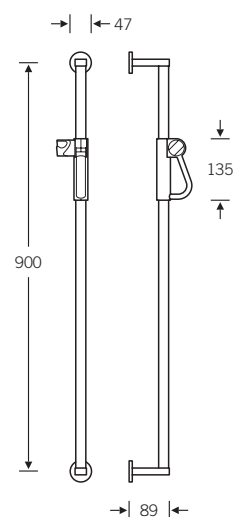
82 8270 00050 (Sliding shower rail with shower head holder for wall mounting)

82 8270 08050 (same with adhesive bonding)

The METRIC® shower head holder enables the shower head to be used conveniently: it combines an ergonomically shaped handle that is safe and easy to operate without rotational movement, with maintenance-free and infinite height and angle adjustment. The shower head holder can easily be adjusted with one hand – one hand always remains free, giving the user the ability to hold on to a support rail, for example.

Different lengths possible e.g. to match tile spacing or to use/cover existing drill holes are possible at customer request. Please send us a dimensioned sketch.

The shower head holder can be converted on site from “right” to “left”.



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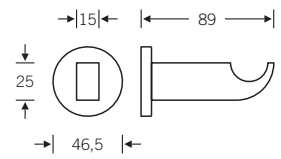
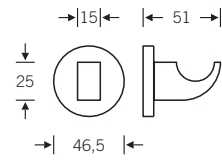
architecture + health

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82 8270 ■



- 82 8270 00001 (wall hook)
- 82 8270 08001 (same with adhesive bonding)
- 82 8270 00002 (coat hook)
- 82 8270 08002 (same with adhesive bonding)

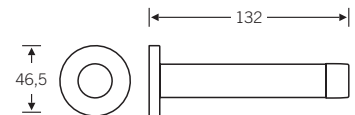


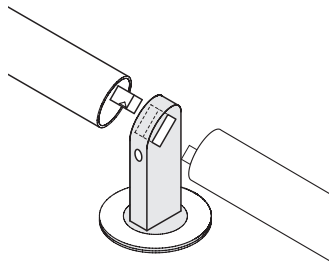
82 8270 ■



- 82 8270 00003 (wall buffer)
- 82 8270 08003 (same with adhesive bonding)

Custom lengths available

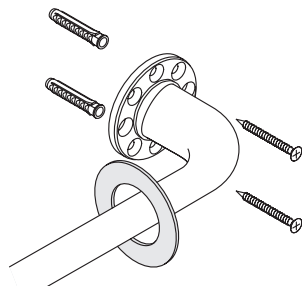




Push-in assembly

The handrails, bends and end pieces feature connecting pins, which contain a threaded hole with M6 grub screw one on side and a counterbore on the other side. To join the pieces together, these connecting pins are pushed into

the precision-fit openings on the wall brackets and screwed stably together using a hole on the underneath with an SW3 socket spanner to stop them from twisting.



Fastening

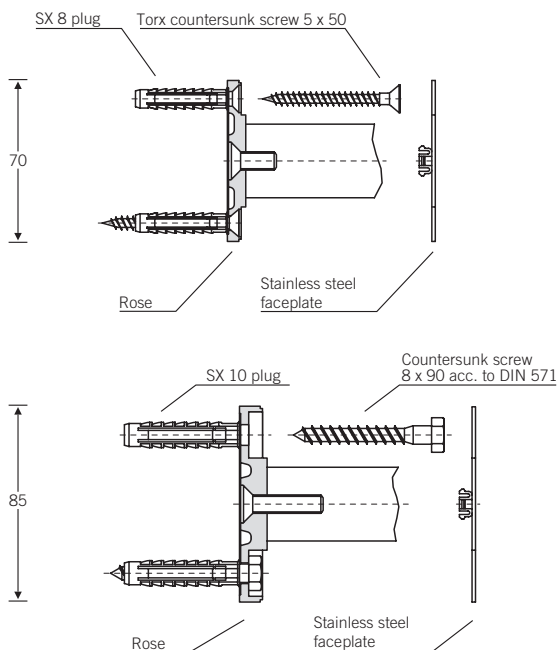
The fastening roses on the handrail and grab system feature six screw holes, enabling ideal fastening with screws.

Once assembled, the stainless steel faceplates are snapped onto the fastening roses with plastic clips to cover the screws.

Note

If the nature of the walls or wall structure (lightweight construction, hollow bricks, pre-wall assembly system etc.) makes a different fastening method necessary, please note

the specifications of the plug manufacturers or the pre-wall installation manufacturers.



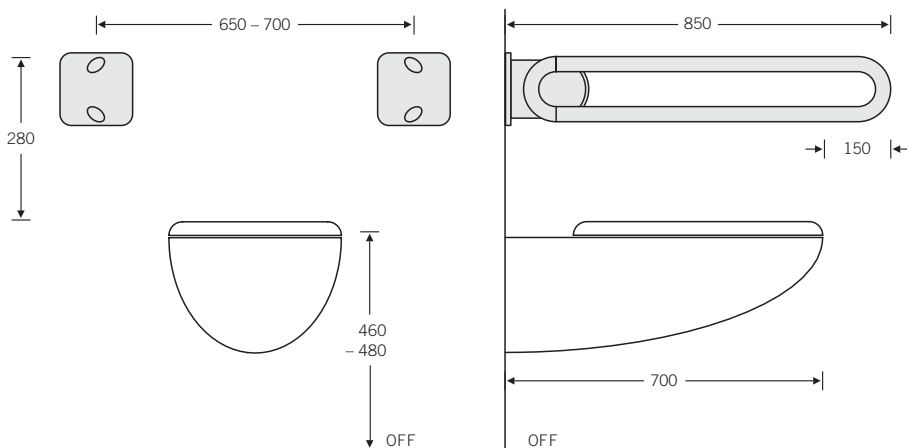
For assembly of the handrail and grab system to solid walls, the fastening accessory kit, consisting of 5 x 50 mm stainless steel Torx countersunk screws and SX 8 plastic plugs, is included in delivery. Clipping on the stainless steel faceplate covers the screws.


This type of fastening applies to the \varnothing 70 mm rose.

For assembly of the handrail and grab system to solid walls, the fastening accessory kit, consisting of 8 x 90 mm DIN 571 stainless steel countersunk screws and SX 10 plastic plugs, is included in delivery. Clipping on the stainless steel faceplate covers the screws.

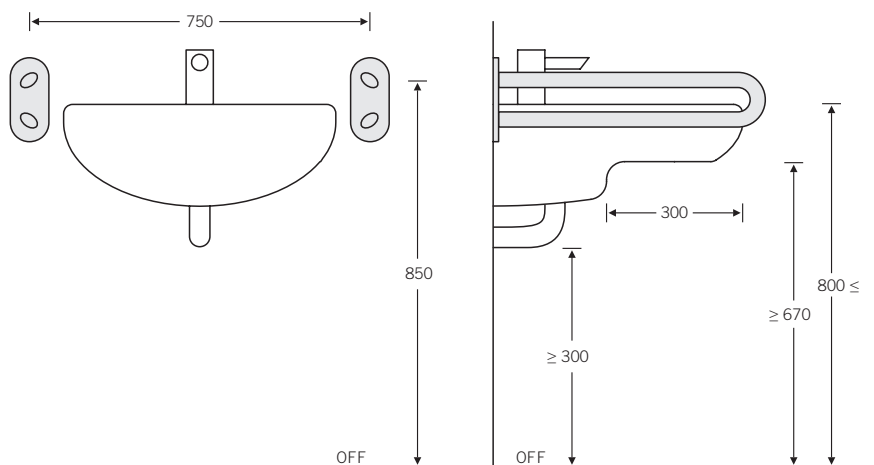
This type of fastening applies to roses with a \varnothing 85 mm and baseplates.


Planning information ErgoSystem® WC



	DIN 18 040/1	DIN 18 040/2 	DIN 18 040/2
Installation height including seat	460–480 mm	460–480 mm	as required
WC depth (distance from front edge to wall)	≥ 700 mm	700 mm	600 mm
Mobility area at sides	≥ 900 mm on both sides	on access side min. 900 mm	as required
Mobility area in front of WC	1500 mm deep 1500 mm wide	1500 mm deep 1500 mm wide	1200 mm deep 1200 mm wide
Distance from WC to side wall	≥ 900 mm	≥ 300 mm	≥ 200 mm
Drop-down rails	280 mm above WC seat height on both sides	280 mm above WC seat height on both sides	as required
<ul style="list-style-type: none"> · Distance between rails · Integrated flushing · Integrated toilet roll holder · Backrest 	650–700 mm on the left and right 550 mm behind the front edge of the WC	650–700 mm on the left and right 550 mm behind the front edge of the WC	as required as required as required as required
For planning bathroom and WC areas in barrier-free buildings, the following standards must be observed:	DIN 18 040 Part 1 relates to the planning, execution and fitting-out of public-access buildings or parts thereof as well of outdoor facilities, i. e. of all structural facilities except those of a purely residential nature. This standard does not apply to schools, nursery schools or hospitals – these are governed by the regional building regulations. In turn, the workplace directive applies to places of work.	DIN 18 040 Part 2 applies to the planning, execution and fitting-out of new rented and cooperative accommodation and corresponding residential facilities suitable for wheelchair users.	DIN 18 040 Part 2 applies to the planning, execution and fitting-out of new, barrier-free rented and cooperative accommodation and corresponding residential facilities.

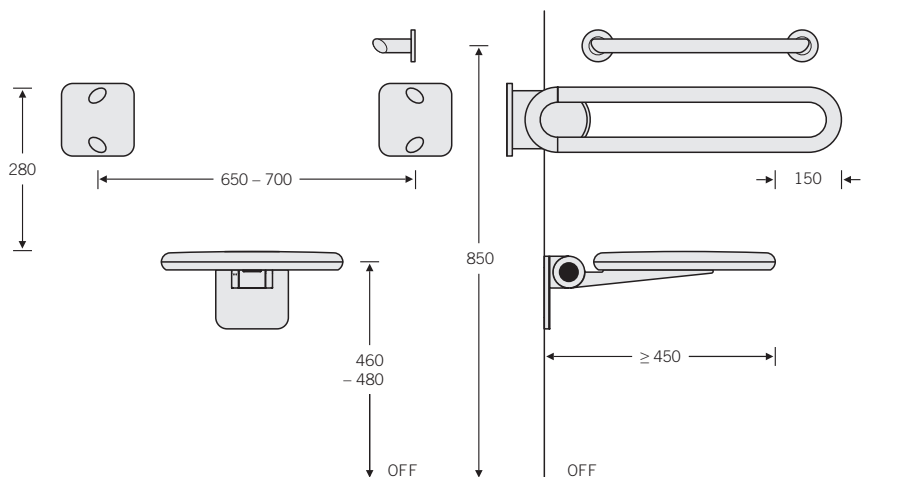
Planning information ErgoSystem® Washstands




	DIN 18 040/1	DIN 18 040/2 	DIN 18 040/2
Installation height top edge of washstand	≤ 800 mm	≤ 800 mm	≤ 850 mm
Mobility area in front of the washstand	1500 mm deep 1500 mm wide	1500 mm deep 1500 mm wide	1200 mm deep 1200 mm wide
Room to move underneath	≥ 550 mm	550 mm	550 mm
Legroom in depth	≥ 300 mm	300 mm	300 mm
Room to sit underneath	≥ 670 mm high	≥ 670 mm high	≥ 670 mm high
Contactless single-lever fittings with anti-scald feature	mandatory	recommended	recommended
One-handed soap dispenser, paper towel dispenser, waste bin and hand dryer	Layout in the area of the washstand	as required	as required
Flush or recess-mounted stench trap	mandatory	mandatory	mandatory
Mirror usable in seated or standing position	A mirror at least 1000 mm high is to be fitted above the washstand	A mirror at least 1000 mm high is to be fitted above the washstand	as required

Planning information ErgoSystem®

Shower area



	DIN 18 040/1	DIN 18 040/2 	DIN 18 040/2
Flush with floor (no steps to be negotiated)	1500 mm deep 1500 mm wide	1500 mm deep 1500 mm wide	1200 mm deep 1200 mm wide
Subsequent installation of a bath tub	not prescribed in the public domain	must be capable of having a lifter moved	underneath
Tip-up seat	Installation height 460–480 mm, optionally shower seat 82 8243	Installation height 460–480 mm, must be retrofittable	as required
Fold-down rails	on both sides 280 mm above fold-away seat	must be retrofittable	
Grab handle	Installation height 850 mm	as required	as required
Fittings	Installation height 850–1050 mm at side, within reach when sitting	Installation height 850–1050 mm at side, within reach when sitting	as required
Contactless single-lever fittings with anti-scald feature	mandatory	recommended	recommended
For planning bathroom and WC areas in barrier-free buildings, the following standards must be ob- served:	DIN 18 040 Part 1 relates to the planning, execution and fitting-out of public-access buildings or parts thereof as well of outdoor facilities, i. e. of all structural facilities except those of a purely residential nature. This standard does not apply to schools, nursery schools or hospi- tals – these are governed by the re- gional building regulations. In turn, the workplace directive applies to places of work.	DIN 18 040 Part 2 applies to the planning, execution and fitting-out of new rented and cooperative ac- commodation and corresponding residential facilities suitable for wheel-chair users.	DIN 18 040 Part 2 applies to the planning, execution and fitting-out of new, bar- rier-free rented and coop- erative accommodation and corresponding residential facilities.





TRUtec Building, Seoul | Korea

Barkow Leibinger, Berlin, New York
www.barkowleibinger.com

FSB 1005 range of handles,
see page 122 f.

Stainless steel, fine matt, brushed

www.fsb.de/trutec

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half-spindles
- 712 Solid spindles
- 712 Fixing accessories
- 713 RT square spindles

7a

Overview

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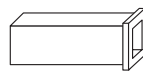
05 0402 | 05 0406
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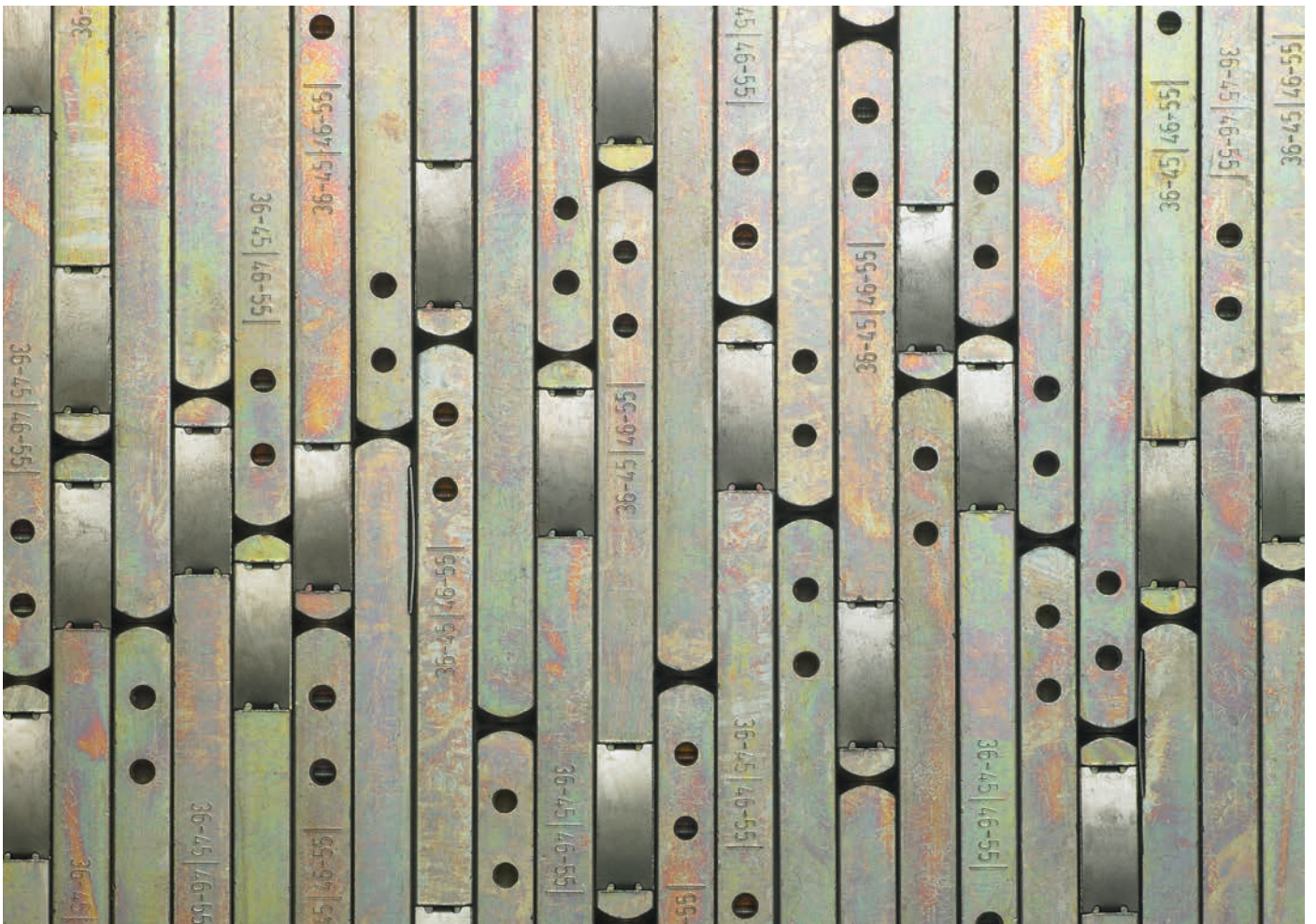


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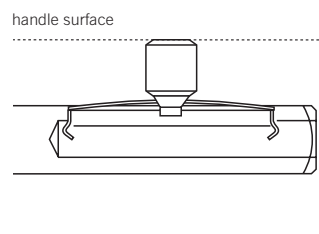
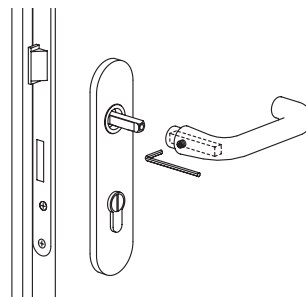


The FSB Stabil-spindle. It may live life in the shadows, but for us it is the dot on the i as far as consistent heavy-duty fitting technology is concerned. FSB is one of the few manufacturers where both halves of the fitting still positively interlock on the square spindle. On the spindle side already at the factory, on the aperture side during assembly. This ensures that the forces occurring are effectively dissipated into the door and are not imposed on the door handle set alone. We are so convinced by this principle that we have been practising it for over 30 years and have adapted it to all other spindle versions.

FSB Stabil-spindle



What is distinctive about the FSB Stabil-spindle is its spring loaded tolerance compensator, which is pierced by a grub screw when fastened.

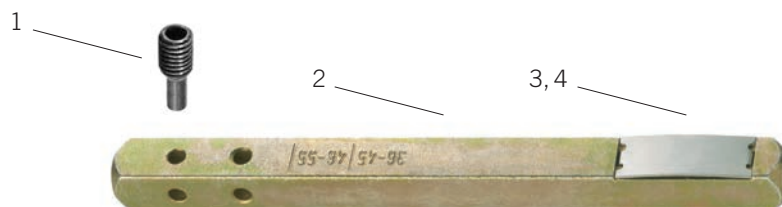


The FSB stock range serves the following door thicknesses:

- 36 to 45 mm with 8 mm FSB Stabil-spindle
- 66 to 75 mm with 10 mm FSB Stabil-spindle

The screw lengths of the accessories are adapted to this stock range. Hardware can be precision customised for other door or spindle thicknesses and fitted with accessories to match.

1. Stainless steel grub screw with punch for piercing the anchor clamp spring
2. Solid square-section material
3. Recess for anchor clamp spring
4. Anchor clamp spring under pretension



Assembly instructions:

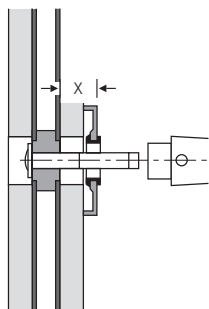
Pass the spindle part of the door handle or knob handle through the lock follower. The aperture part of the door handle or knob handle is fitted onto the spindle and the two parts pushed together securely. The screw in the neck of the door handle or knob handle aperture (grub screw with punch) is then tightened against the resistance that builds up. The punch must penetrate the anchor clamp spring.

Visible sign for correctly mounted fittings: the top of the grub screw fits flush with the handle's neck.

Check that the spindle fits correctly and without play by turning, pushing and pulling the handle a number of times.

Stabil-half-spindles

05 0103

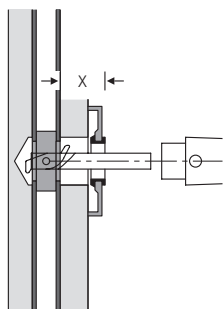


FSB Stabil-half-spindles
for through fixing

Dimension X

05 0103 00808	8 × 55 mm	15 – 24 mm
05 0103 00812	8 × 65 mm	25 – 34 mm
05 0103 00816	8 × 75 mm	35 – 44 mm
05 0103 00908	9 × 55 mm	15 – 24 mm
05 0103 00912	9 × 65 mm	25 – 34 mm
05 0103 00916	9 × 75 mm	35 – 44 mm
05 0103 01008	10 × 55 mm	15 – 24 mm
05 0103 01012	10 × 65 mm	25 – 34 mm
05 0103 01016	10 × 75 mm	35 – 44 mm

05 0115
05 0116



FSB Stabil-half-spindles
for doors drilled on one side,
not suitable for locks with clamping follower

Dimension X

05 0115 00810	8 × 60 mm	20 – 24 mm
05 0115 00812	8 × 65 mm	25 – 29 mm
05 0115 00814	8 × 70 mm	30 – 34 mm
05 0115 00816	8 × 75 mm	35 – 39 mm
05 0115 00818	8 × 80 mm	40 – 44 mm
05 0115 00910	9 × 60 mm	20 – 24 mm
05 0115 00912	9 × 65 mm	25 – 29 mm
05 0115 00914	9 × 70 mm	30 – 34 mm
05 0115 00916	9 × 75 mm	35 – 39 mm
05 0115 00918	9 × 80 mm	40 – 44 mm
05 0115 01010	10 × 60 mm	20 – 24 mm
05 0115 01012	10 × 65 mm	25 – 29 mm
05 0115 01014	10 × 70 mm	30 – 34 mm
05 0115 01016	10 × 75 mm	35 – 39 mm
05 0115 01018	10 × 80 mm	40 – 44 mm
05 0115 01022	10 × 90 mm	50 – 54 mm
05 0115 01026	10 × 100 mm	60 – 64 mm
05 0116 01012	8/10 × 65 mm	25 – 29 mm*
05 0116 01014	8/10 × 70 mm	30 – 34 mm*
05 0116 01016	8/10 × 75 mm	35 – 39 mm*
05 0116 01018	8/10 × 80 mm	40 – 44 mm*

* stepped, 8 mm handle hole/10 mm follower

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When choosing the right FSB Stabil-half-spindle, please use dimension X for guidance. Dimension X is the distance from the top edge of the backplate or rose guide to the top edge of the follower.

Stabil-half-spindles

05 0177

05 0107

FSB Stabil-half-spindles
with plug (M12 thread), for screw mounting in knob neck,
width across flats 13 mm



Door thickness

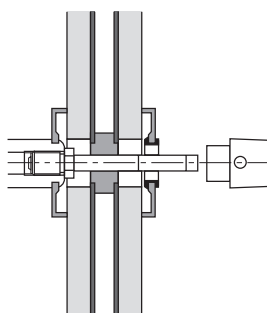
05 0177 00820	8 × 85 mm	36 – 45 mm
05 0177 00824	8 × 95 mm	46 – 55 mm
05 0177 00828	8 × 105 mm	56 – 65 mm
05 0177 00832	8 × 115 mm	66 – 75 mm
05 0177 00836	8 × 125 mm	76 – 85 mm
05 0177 00840	8 × 135 mm	86 – 95 mm
05 0177 00844	8 × 145 mm	96 – 105 mm

05 0177 00920	9 × 85 mm	36 – 45 mm
05 0177 00924	9 × 95 mm	46 – 55 mm
05 0177 00928	9 × 105 mm	56 – 65 mm
05 0177 00932	9 × 115 mm	66 – 75 mm
05 0177 00936	9 × 125 mm	76 – 85 mm
05 0177 00940	9 × 135 mm	86 – 95 mm
05 0177 00944	9 × 145 mm	96 – 105 mm

05 0177 01020	10 × 85 mm	36 – 45 mm
05 0177 01024	10 × 95 mm	46 – 55 mm
05 0177 01028	10 × 105 mm	56 – 65 mm
05 0177 01032	10 × 115 mm	66 – 75 mm
05 0177 01036	10 × 125 mm	76 – 85 mm
05 0177 01040	10 × 135 mm	86 – 95 mm
05 0177 01044	10 × 145 mm	96 – 105 mm

05 0107 01020	8/10 × 85 mm	36 – 45 mm*
05 0107 01024	8/10 × 95 mm	46 – 55 mm*
05 0107 01028	8/10 × 105 mm	56 – 65 mm*
05 0107 01032	8/10 × 115 mm	66 – 75 mm*
05 0107 01036	8/10 × 125 mm	76 – 85 mm*
05 0107 01040	8/10 × 135 mm	86 – 95 mm*
05 0107 01044	8/10 × 145 mm	96 – 105 mm*

* stepped, 8 mm door handle hole / 10 mm follower



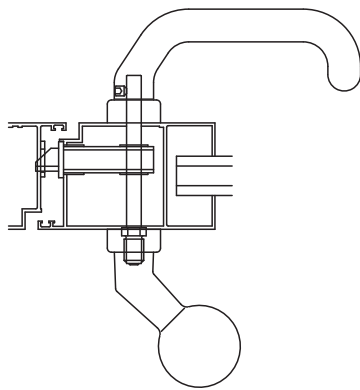
The measurements for the door thickness when selecting the spindles with plug shown here assume a backplate or rose thickness of 7 mm. In the case of security fittings, FSB supplies both the spindles shown here and the corresponding screws prepared at the factory for the required door thickness.

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Half-spindles and accessories

05 0108

FSB half-spindles for frame handles with plug (M12 thread), for screw mounting in knob neck, width across flats 13 mm



Door thickness, symmetrical knob	Door thickness, angled knob
----------------------------------	-----------------------------

05 0108 00920	9 × 85 mm	35 – 39 mm
05 0108 00922	9 × 90 mm	32 – 36 mm
05 0108 00924	9 × 95 mm	37 – 41 mm
05 0108 00926	9 × 100 mm	42 – 46 mm
05 0108 00928	9 × 105 mm	47 – 51 mm
05 0108 00930	9 × 110 mm	52 – 56 mm
05 0108 00932	9 × 115 mm	57 – 61 mm
05 0108 00934	9 × 120 mm	62 – 66 mm
05 0108 00936	9 × 125 mm	67 – 71 mm
05 0108 00938	9 × 130 mm	72 – 76 mm
05 0108 00940	9 × 135 mm	77 – 81 mm

For more information about using FSB fittings on emergency exit locks according to DIN EN 179, please ask for the the corresponding specialist FSB brochure.

05 0402

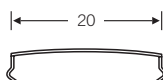
Grub screw with punch



05 0402 00601	M6 × 8.0 mm
05 0402 00602	M6 × 9.0 mm
05 0402 00603	M6 × 10.5 mm
05 0402 00604	M6 × 11.5 mm

05 0406

Anchor clamp spring



05 0406 02008	20 mm
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Stabil-spindles

03 0442

03 0442 00050

FSB Stabil-blind-spindle
8 × 75 mm, for door thickness 36 to 45 mm



05 0102

FSB Stabil-spindle
for connecting pairs of door handles or knob handles
consisting of two aperture parts



Door thickness

05 0102 00826	8 × 100 mm	36 – 55 mm
05 0102 00834	8 × 120 mm	56 – 75 mm
05 0102 00842	8 × 140 mm	76 – 95 mm

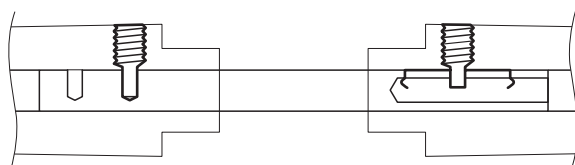
05 0102 00926	9 × 100 mm	36 – 55 mm
05 0102 00934	9 × 120 mm	56 – 75 mm
05 0102 00942	9 × 140 mm	76 – 95 mm

05 0102 01026	10 × 100 mm	36 – 55 mm
05 0102 01034	10 × 120 mm	56 – 75 mm
05 0102 01042	10 × 140 mm	76 – 95 mm

05 0404 grub screw M6 × 12 mm with pin

Aperture part of handle
with grub screw 05 0404

Aperture part of handle
with grub screw 05 0402



Grub screw included in delivery. Product no. only required
for replacement delivery.

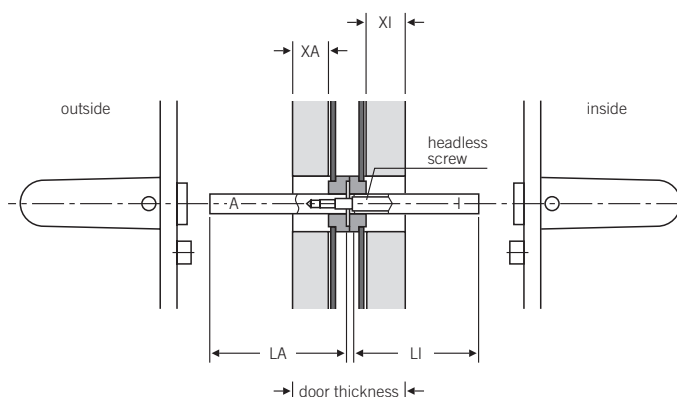
Where it is intended to form a set out of two aperture parts, the first step is to make a spindle part using the FSB Stabil-spindle 05 0102 and the special FSB grub screw 05 0404 that goes with it out of one of the aperture parts. This spindle part must only be used if the tip of the grub screw is fully engaged in the spindle drill hole leaving the screw head flush with the surface of the handle. Thereafter assembly follows the rules for the FSB Stabil-spindle (see Page 706). The measurements for the door thickness when selecting the FSB Stabil-spindles assume a backplate or rose thickness of 7 mm.

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Special spindle

05 0125

FSB special spindle in accordance with DIN 18 273 for locks with a split follower



For locks with a split follower, there is an FSB special spindle (square 9 mm), tested and approved according to DIN 18 273, with the order number 05 0125, which can be used to bridge door thicknesses from 34 to 101 mm where the lock is in the middle.

When ordering, the following details are necessary:

- Door thickness
- Dimensions XA and XI
- Order number of the FSB fitting used to determine the correct spindle length

For more information about using FSB fittings on emergency exit locks according to DIN EN 179, please ask for the corresponding specialist FSB brochure.

When deploying the FSB special spindle for locks with a split follower, it is important not only to heed building regulations but also to bear in mind that panic fittings (lock, cylinder, spindle, handles etc.) are intended solely for use in an emergency and should never be fitted to doors in constant operation.

Moreover, according to DIN 18 273 it is not permitted to freely put together fire safety fittings from one manufacturer's components or to mix fire and smoke safety fittings from different manufacturers.

FSB draws your attention to the recommendations and observations of the lock industry in this respect. Building regulations approval of the FSB special spindle 05 0125 for locks with a split follower is valid in connection with certified FSB fittings.

Assembly instructions:

1. From the outside of the door, insert spindle section A into the lock follower as far as the coupling washer.
2. From the inside, then insert the other spindle section marked I into the lock follower also as far as the coupling washer and screw the two spindle sections together through the lock follower coupling washer by means of the shank screw.
3. Now place the turnably fixed door handles together with backplates or roses onto the spindles.
4. It should be ensured that there is no play between the plates or roses and the doors, as a slight shift when operating the door can lead to the connection between the two spindle halves being ruptured.
5. Finally, firmly tighten the cup point screws on the two door handles against the spindle. The screws heads must be flush with the surface of the handle.

7a

Solid spindles

Fixing accessories

8 mm □ solid spindles



05 0172 00810	8 × 60 mm
05 0172 00814	8 × 70 mm
05 0172 00818	8 × 80 mm
05 0172 00822	8 × 90 mm
05 0172 00826	8 × 100 mm
05 0172 00830	8 × 110 mm
05 0172 00834	8 × 120 mm
05 0172 00838	8 × 130 mm
05 0172 00842	8 × 140 mm
05 0172 00846	8 × 150 mm
05 0172 00850	8 × 160 mm

9 mm □ solid spindles

05 0173 01910	9 × 60 mm
05 0173 01914	9 × 70 mm
05 0173 01918	9 × 80 mm
05 0173 01926	9 × 100 mm
05 0173 01930	9 × 110 mm
05 0173 01934	9 × 120 mm
05 0173 01938	9 × 130 mm
05 0173 01942	9 × 140 mm
05 0173 01946	9 × 150 mm
05 0173 01950	9 × 160 mm

These square spindles may only be used together with tested FSB FS frame door handles.

Solid spindles stepped on one side



05 0188 00910	9/8 × 60 mm
05 0188 00916	9/8 × 75 mm
05 0188 00934	9/8 × 120 mm

05 0189 01010	10/8 × 60 mm
05 0189 01016	10/8 × 75 mm
05 0189 01018	10/8 × 80 mm
05 0189 01026	10/8 × 100 mm
05 0189 01030	10/8 × 110 mm

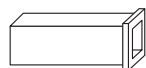


Solid spindles stepped on both sides

05 0183 00926	8/9/8 × 100 mm
05 0183 00934	8/9/8 × 120 mm

05 0184 01026	8/10/8 × 100 mm
05 0184 01030	8/10/8 × 110 mm
05 0184 01034	8/10/8 × 120 mm
05 0184 01038	8/10/8 × 130 mm
05 0184 01042	8/10/8 × 140 mm

05 0425



Adaptor sleeve for compensating door handle spindle/lock follower

05 0425 00809	8 on 9.0 mm
05 0425 00810	8 on 10.0 mm
05 0425 00910	9 on 10.0 mm
05 0425 00885	8 on 8.5 mm

05 0526



Fastening set for frame door fittings for through fixing on SSF mortise locks (series 01 and 02)

Matching spindle:
05 0525 018.. (□ 8 mm) or
05 0525 019.. (□ 9 mm)
see page 713

Bag of accessories	Screw length	Door thickness
05 0526 01045	50 mm	45 – 49 mm
05 0526 01050	55 mm	50 – 54 mm
05 0526 01055	60 mm	55 – 59 mm
05 0526 01060	65 mm	60 – 64 mm
05 0526 01065	70 mm	65 – 69 mm
05 0526 01070	75 mm	70 – 74 mm
05 0526 01075	80 mm	75 – 79 mm
05 0526 01080	85 mm	80 – 84 mm
05 0526 01085	90 mm	85 – 89 mm
05 0526 01090	95 mm	90 – 94 mm
05 0526 01095	100 mm	95 – 99 mm
05 0526 01000	105 mm	100 – 104 mm

fsb.de/spindles
fsb.de/fixing-accessories

RT square spindles

05 0525

Square spindles
for connecting of frame door fittings



05 0525 028(9)..

8(9) mm RT special spindles
suitable for connecting two angled
frame door handles by means of
screw pins with punch (see page
407 f.)

Bag of accessories	Spindle length	Door thickness
05 0525 02804	96 mm	35 – 44 mm
05 0525 02805	106 mm	45 – 54 mm
05 0525 02806	116 mm	55 – 64 mm
05 0525 02807	126 mm	65 – 74 mm
05 0525 02808	136 mm	75 – 84 mm
05 0525 02809	146 mm	85 – 94 mm
05 0525 02810	156 mm	95 – 104 mm

05 0525 02904	93 mm	35 – 44 mm
05 0525 02905	103 mm	45 – 54 mm
05 0525 02906	113 mm	55 – 64 mm
05 0525 02907	123 mm	65 – 74 mm
05 0525 02908	133 mm	75 – 84 mm
05 0525 02909	143 mm	85 – 94 mm
05 0525 02910	153 mm	95 – 104 mm

8(9) mm RT Stabil-spindle
suitable for connecting frame door
handles according to the Wittgenstein
solution (see page 402 f. and 407)

Bag of accessories	Spindle length	Door thickness
05 0525 018(9)04	98 mm	35 – 44 mm
05 0525 018(9)05	108 mm	45 – 54 mm
05 0525 018(9)06	118 mm	55 – 64 mm
05 0525 018(9)07	128 mm	65 – 74 mm
05 0525 018(9)08	138 mm	75 – 84 mm
05 0525 018(9)09	148 mm	85 – 94 mm
05 0525 018(9)10	158 mm	95 – 104 mm

7a

05 0526

Fixing accessories
for frame door fittings



Screws M5 × 25 mm
and rivet nuts

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fsb.de/fixing-accessories

Fixing accessories

05 0303

Oval head countersunk screw
with cross-head

05 0303 00515 M5 × 15 mm
05 0303 00535 M5 × 35 mm



05 0308

Countersunk screws
with cross-head, for fastening door knobs
23 08 .. 00006 to one another on a round
(17 1731 019) and rectangular
(17 1703 019) rose

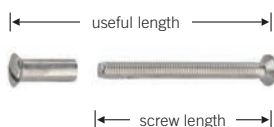
Door thickness

05 0308 00545	M5 × 45 mm	37 – 46 mm
05 0308 00555	M5 × 55 mm	47 – 56 mm
05 0308 00565	M5 × 65 mm	57 – 66 mm
05 0308 00575	M5 × 75 mm	67 – 76 mm
05 0308 00585	M5 × 85 mm	77 – 86 mm
05 0308 00595	M5 × 95 mm	87 – 96 mm
05 0308 00501	M5 × 105 mm	97 – 106 mm

05 0309

Screws
with M4 threaded sleeve nut

Screw length Useful length Door thickness



05 0309 00435	35 mm	39 – 44 mm	25 – 30 mm
05 0309 00440	40 mm	44 – 49 mm	30 – 35 mm
05 0309 00445	45 mm	49 – 54 mm	35 – 40 mm
05 0309 00450	50 mm	54 – 59 mm	40 – 45 mm
05 0309 00455	55 mm	59 – 64 mm	45 – 50 mm
05 0309 00460	60 mm	64 – 69 mm	50 – 55 mm
05 0309 00465	65 mm	69 – 74 mm	55 – 60 mm
05 0309 00470	70 mm	74 – 79 mm	60 – 65 mm
05 0309 00475	75 mm	79 – 84 mm	65 – 70 mm
05 0309 00480	80 mm	84 – 89 mm	70 – 75 mm

05 0313

Threaded pins



05 0313 00670	M6 × 70 mm
05 0313 00680	M6 × 80 mm
05 0313 00690	M6 × 90 mm
05 0313 00600	M6 × 100 mm

05 0313 00840	M8 × 40 mm
05 0313 00850	M8 × 55 mm
05 0313 00860	M8 × 60 mm
05 0313 00870	M8 × 70 mm
05 0313 00880	M8 × 80 mm
05 0313 00800	M8 × 100 mm

05 0315

Countersunk tapping screw
with cross-head



2.9 × 16 mm
3.9 × 16 mm
4.2 × 19 mm

05 0316

Threaded screws for wood



05 0316 00640

05 0316 00840

M6 version:
Total length 40 mm
Length of M6 thread
10 mm

M8 version:
Total length 40 mm
Length of M8 thread
15 mm

Fixing accessories


05 0319 

Dome nuts

Aluminium
05 0319 00600 M6
05 0319 00800 M8




Stainless steel
05 0319 00800 M8

05 0320 

Dome nuts

Aluminium
Stainless steel
05 0320 00800 M8



05 0325 

Cap nut
with 12 mm extension

Aluminium
05 0325 00600 M6
05 0325 00800 M8



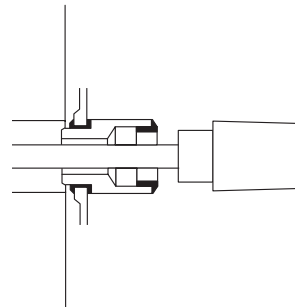
03 0410

FSB socket spanner
for half-spindles with plug




03 0440 

Door handle spacer rose
for increasing the gap
between the door and door
handle

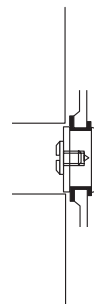


Aluminium
03 0440 020 20 mm
03 0440 025 25 mm
03 0440 030 30 mm

Stainless steel
03 0440 020 20 mm

03 0441 

Handle hole cover
for covering the handle
hole on short and long
backplates



Aluminium



For flush fittings (AGL[®], page 270) and roses (17 1736/1737, round, page 271 and 17 1733/1734, rectangular, page 272) we offer routing templates developed by ourselves and precisely matched to these hardware solutions. Turned or milled edge radii on the roses guarantee an accurate fit combined with our routing templates. In this way, exclusive door design is easily feasible even without CNC equipment.

Installation technology

Simply precise

Correct installation is essential for FSB door handle fittings to function flawlessly.

It is FSB policy to supply paper positioning templates with all orders. If these templates have inadvertently not been enclosed, we ask that you order them to be sent on immediately. The order numbers are listed in the footers of the pages that follow.

FSB supplies trade installers with metal templates, the product codes for which are specified on the pages that follow.

A considerable amount of force is exerted when operating door handle fittings. This holds particularly true for fittings on frequently used doors. Long-term trouble-free use can only be guaranteed if sufficient care is taken when marking out, drilling and fixing the hardware.

FSB has looked very carefully into all the complaints received over recent years. In the process, it was discovered that the reason for the complaint is very frequently faulty installation.

The main sources of problems were:

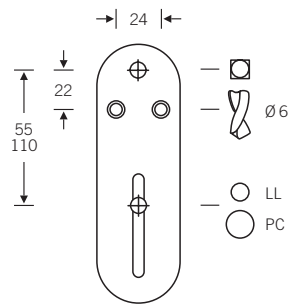
- Support lugs on roses and backplates had become detached, making it impossible to screw the fittings without risk of slipping. The fittings slipped about on the door surfaces when operated.
- Fittings were ordered for the wrong door thickness and installed anyway regardless of the consequences. The connecting spindles were either too long: door handles were able to slip about, or too short: spindle fastened too close to its edge, leading to breakage.
- When putting door handle fittings together, the grub screw with punch was not tightened with sufficient care in the door handle. The retaining plate in the form of the anchor clamp spring was not pierced. The door handle was able to slip about on the spindle.
- Drill holes were made without using a template. Drill centres were marked out in haphazard manner, producing oversize holes. Backplates and roses moved about in the oversize mounting holes.
- FSB hardware was combined with spindles, screws, backplates and roses from competitors.
- Spindles on window handles were shortened by the customer. This could cause fittings to get into the click-stop mechanism, leading to a fault.

FSB is at pains to stress that it can only accept liability for its products – as is certainly the case for all competitors – if they have been correctly and professionally installed.

We would additionally like to draw attention to growing public sensitivity regarding the issue of liability. Improperly installed door and window fittings and their accessories harbour serious risks for potential product liability. FSB puts its faith in the practical experience and skill of its own clientele and of their customers. Our mutual end customers have a right to properly fitted hardware that works.

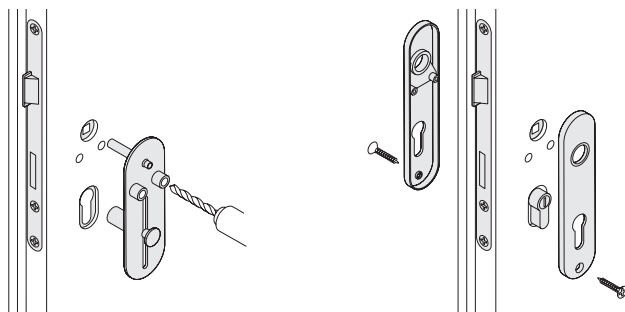
Fixing aids for short backplates with visible screw fixing

03 0453



Fixing template for
FSB standard short backplates, with
locating lugs and a visible screw fixing

For variable use with
LL/PC/WC 55–78 mm



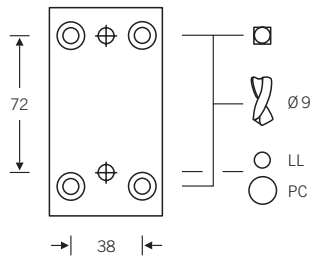
Paper template

78 8429 0252
for FSB short backplates with locating
lugs standard fittings and bathroom
fittings

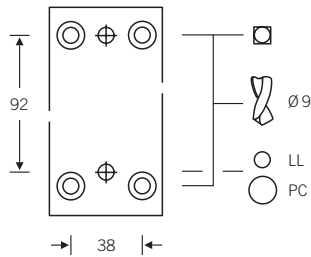
fsb.de/030453

Fixing aids for FSB rose sets

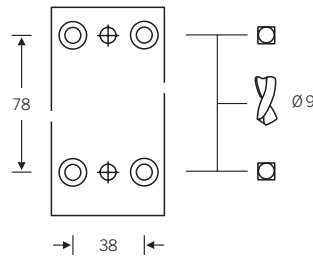
03 0455



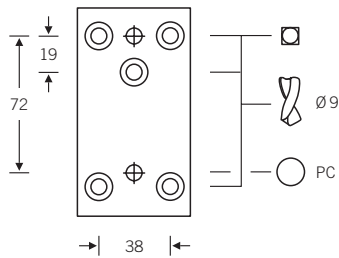
03 0455 00000
LL and PC 72 mm



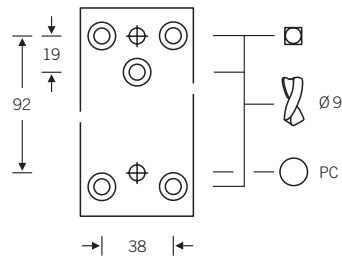
03 0455 00012
LL and PC 92 mm



03 0455 05608
WC 78 mm



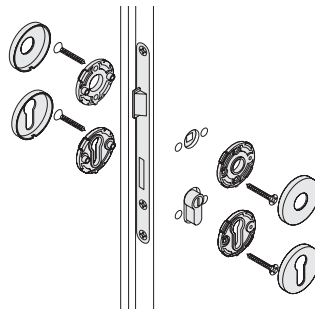
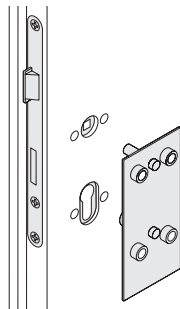
03 0455 01000
isis®, PC 72 mm



03 0455 01012
isis®, PC 92 mm

Fixing templates for
all FSB roses designed for concealed
screw fixing:

- FSB handle and cylinder key roses for
standard bearings, AGL® heavy-duty
bearings and AGL® fire safety fittings
- FSB security roses
- FSB isis® fittings



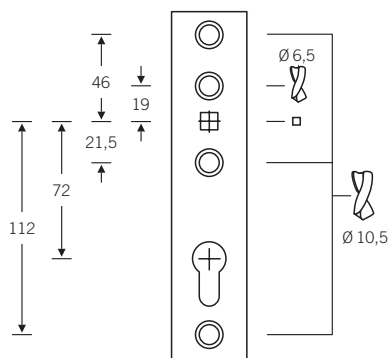
Paper templates

78 8429 0250
for FSB roses standard fittings and
AGL® + AGL® FS heavy-duty fittings

78 8429 0251
for FSB bathroom roses standard fittings

Fixing aids for panic fittings with concealed screw fixing

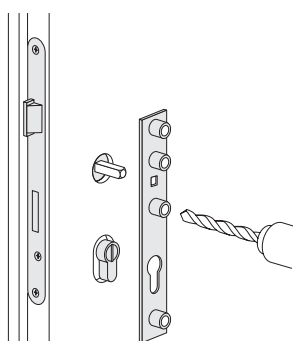
03 0457



Fixing templates for
FSB panic fittings

77 7970 00110
77 7970 00200

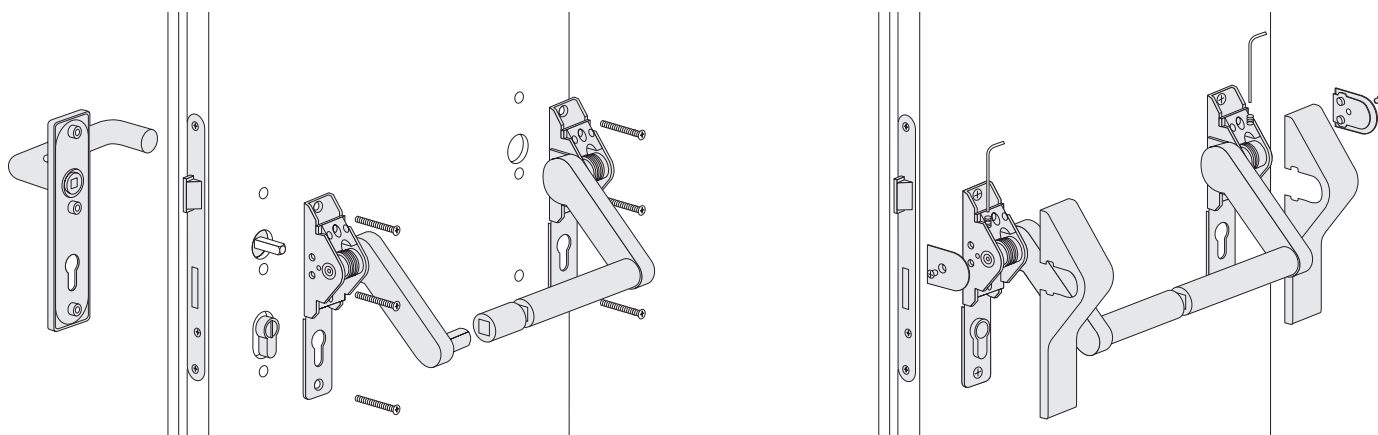
77 7980 0..10
77 7980 0..00



Insert the FSB special spindle 03 0125 in the lock and fit the cylinder. Position drill hole template over spindle and cylinder and drill through the drill bushes. Repeat the process on the door hinge side. Then work out the length of the crossbar and the length of the reinforcement profile: these are calculated by taking the width of the door less twice the size of the backset, less another 68 mm. Once the bars have been cut to size, fit plastic end pieces into the tube for the stainless steel version.

Assembling the panic hardware and connecting it to the fittings on the other side is very straightforward. Full instructions are enclosed with each set. Once the limit stop has been adjusted (only 77 7970) and the cover caps have been fitted, check that the fitting works.

78 8430 0085
Assembly instructions for panic fittings
77 7970



fsb.de/030457

Universal template

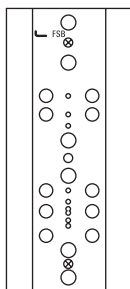
03 0460



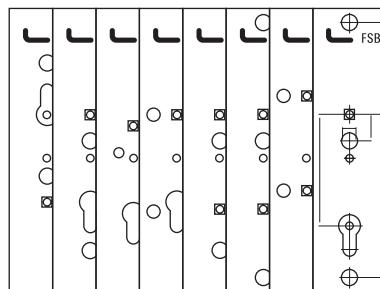
In addition to the wide range of special templates, FSB has developed a universal template that contains virtually every drill hole configuration. This universal template should be a part of every professional installer's standard equipment.

Contents:

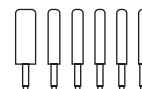
- 1 Metal template
- 2 Drill hole layout templates
- 3 Pilot pins
- 4 Knurled screw
- 5 Drill bits
- 6 Adapter for bigger door thicknesses from approx. 60 mm, depending on lock position



1



2



3



4



5



6

Instructions for use:

1. Select drill hole layout required using paper sheets provided.
2. Push selected drill hole sheet from the top into the guide of metal template.
3. Firmly secure drill hole sheet with knurled screw.
4. Select pilot pins to suit lock follower (7 mm, 8 mm, 9 mm, 10 mm) and keyway type (lever lock, profile cylinder, deadbolt follower) and screw them into the metal template from the back un-

til they become visible from the front in the drill hole sheet.

5. Attach the prepared universal template to each side of the door in turn and drill through the available layout holes.
6. Remove template and fit FSB hardware as shown in assembly instructions.

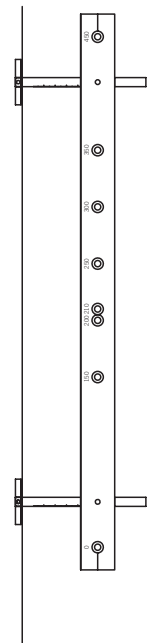
Door pull template

03 0461



The door pull template 03 0461 was designed to enable holes for door pulls to be drilled accurately. The FSB door pull template therefore takes different axial dimensions into account as well as individual backsets. It features hardened drilling bushes and graduated side stops and is made of high quality aluminium. The integrated felt pads prevent the door surfaces from being damaged.

Fixing centre spacing
150 mm, 200 mm, 210 mm, 250 mm,
300 mm, 350 mm and 450 mm



fsb.de/030461

Routing jig for round flush roses

03 0462



AT, CH, BeNeLux spacings

Description of application: push the centring device into the drill holes on the timber routing jig and place the assembly against the door leaf. Slot the two guide pins on the centring device into the handle follower and the profile cylinder or other key hole and align the routing jig parallel with the door leaf. Then secure the routing jig to the door with C-clamps based on the resulting position. Using the drilling bushes on the centring devices, make the corresponding holes to fasten the roses or fittings. Now remove the centring device and proceed to rout out:

03 0462 00001
(PC 88 mm, PC/LL 90 mm,
WC/R/7/90 mm – Ö-Norm)

03 0462 00002
(PC 70 + 85 mm, WC/R/7/70 mm)

03 0462 00003
(PC + WC 78 mm + CH-RZ 74/78/94)
for flush heavy-duty fittings (FSB 72 and
76/79) with a minimum door thickness
of 45 mm, depth 7 mm, Ø 55.6 mm and
for flush roses (FSB 17 1736/17 1737),
door thicknesses from 38–44 mm,
depth 3 mm, Ø 55.6 mm Routing cutter
Ø 20 mm, collar ring Ø 30 mm. Repeat
process on the other side.

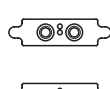
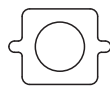
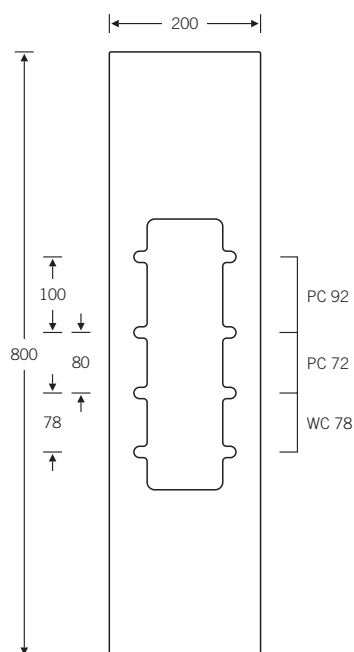
03 0462 00010
for flush security roses FSB 73 7396:
outer Ø 60.8 mm, depth 12.5 mm
(routing cutter Ø 20 mm, collar ring
Ø 30 mm), inside: Ø 55.8 mm, depth
7 mm (routing cutter Ø 20 mm, collar
ring Ø 35 mm).

03 0462 00020
for flush pulls 42 4250–42 4254

Routing template

for round and rectangular flush roses

03 0462



DE spacings

Description of application for 17 1733 / 17 1734: push the two centring devices into the timber routing jig and place the assembly against the door leaf. Slot the two guide pins on the centring devices into the handle follower and the profile cylinder or keyhole and align the routing jig parallel with the door leaf. Then secure the routing jig to the door with C-clamps based on the resulting position. Using the drilling bushes on the centring devices, make the corresponding holes to fasten the roses or fittings. Now remove the centring devices and use the small attachment to rout 3 mm deep with a \varnothing of 55.6 mm, \varnothing 20 mm routing cutter and \varnothing 30 mm collar ring. Then switch to the big attachment and rout out the corner areas, also 3 mm deep with \varnothing 30 mm collar ring but \varnothing 4 mm routing cutter. Repeat the process on the opposite side.

Description of application for heavy-duty fittings and 17 1736 /17 1737: Rout out with round attachment, 3 or 7 mm deep, \varnothing 20 mm routing cutter, \varnothing 30 mm collar ring

03 0462 00030
(PC 72 + 92 mm, WC/R/8/78 mm)

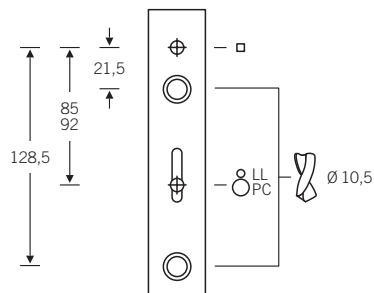
for round flush roses
FSB 17 1736/17 1737, door thicknesses from 38–44 mm, depth 3 mm, \varnothing 55.6 mm

for rectangular flush roses
FSB 17 1733/17 1734, door thicknesses from 38–44 mm, depth 3 mm, 55.6 x 55.6 mm

for flush heavy-duty fittings (round roses)
FSB 72 and 76/79, door thickness from 45 mm, depth 7 mm, \varnothing 55.6 mm

Fixing aids for short backplates with concealed screw fixing

03 0469

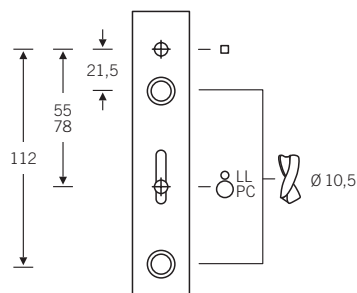


Fixing template for
FSB short backplates 14 1452 and
14 1453

- with concealed screw fixing
- FSB fittings in fire safety design
- FSB fittings with AGL® compensating bearing

For variable use with
LL/PC/WC 85–92 mm

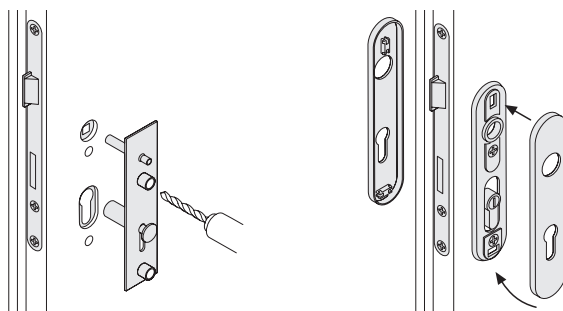
03 0477



Fixing template for
FSB short backplates 14 1450 and
14 1451

- with concealed screw fixing
- FSB fittings in fire safety design
- FSB fittings with AGL® compensating bearing

For variable use with
LL/PC/WC 55–78 mm



Paper templates

78 8429 0253
for FSB short backplates 14 1450 and
14 1451 standard fittings and AGL®
heavy-duty fittings + AGL® FS

78 8429 0261
for FSB short backplates 14 1452 and
14 1453 standard fittings and AGL®
heavy-duty fittings + AGL® FS

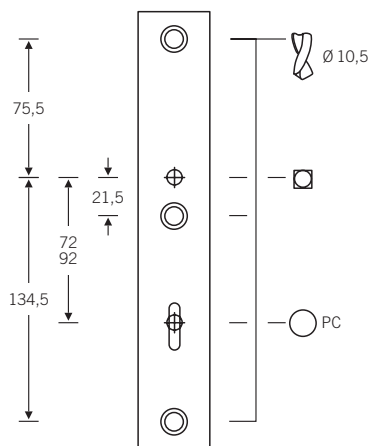
fsb.de/030469
fsb.de/030477

7b

Fixing aids

for long and wide backplates with concealed fastening

03 0476

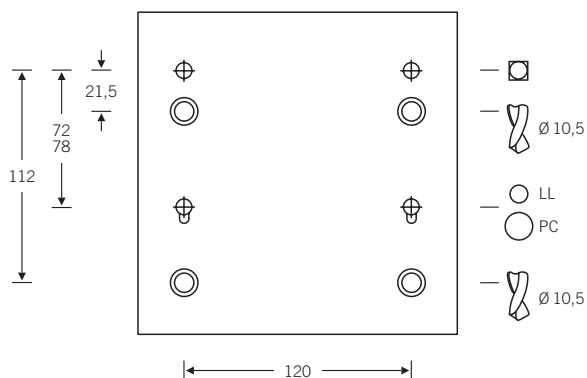


Fixing template for

- FSB long backplates with concealed screw fixing
- FSB long backplate sets in fire safety design or with compensating bearing
- FSB security fitting for frame door locks
FSB 73 7330 and 73 7331
FSB 73 7530 and 73 7531
- FSB narrow frame fittings in long backplate design
FSB 06 7816 and 06 7820

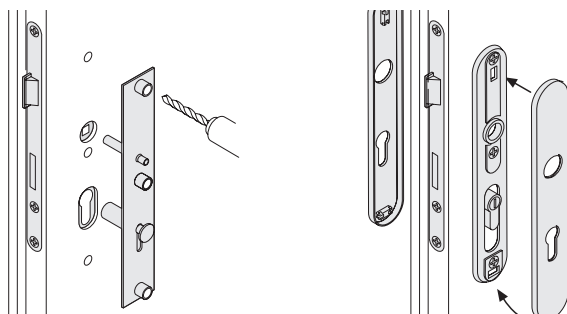
For variable use with
LL/PC/WC 72–92 mm

03 0478



Fixing template for

- FSB wide backplates with concealed screw fixing
FSB 14 1488 003
- FSB wide backplate fittings with AGL® compensating bearing
FSB 72 LL/PC/WC 72–78 mm
- FSB wide backplate fittings in fire safety design
FSB 76 PC 72 mm



Paper templates

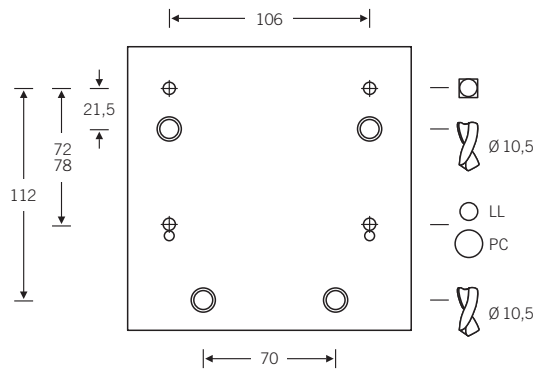
78 8429 0209
for FSB wide backplates with substructure

for FSB long backplates with substructure:
78 8429 0254
Standard and AGL® heavy-duty fittings
+ AGL® FS
78 8429 0255
Bathroom/WC fittings (standard)

fsb.de/030476
fsb.de/030478

Fixing aid for round backplate PS1 with concealed fastening

03 0473



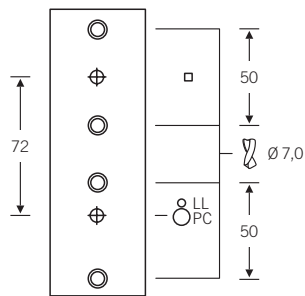
Fixing template for

- FSB round backplate with concealed screw fixing, design Philippe Starck
FSB 14 1491 003 (round backplate)
FSB 19 1991 0.. (round backplate with knob)

For variable use with
LL/PC/WC 72–78 mm

Fixing aids for frame door roses with rivet nuts

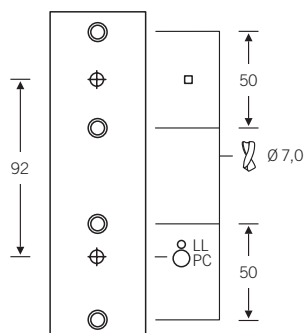
03 0481



Fixing template for
oval FSB roses with rivet nuts and when
using the FSB fixing accessories 03 0526

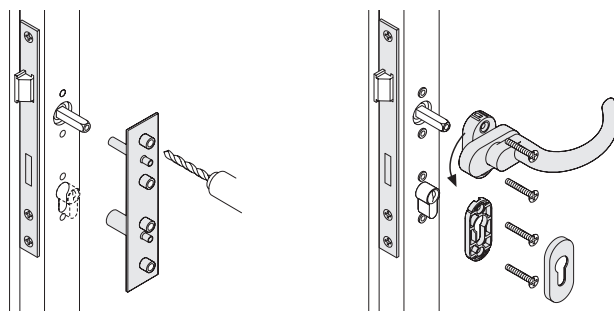
PC 72 mm

03 0482



Fixing template for
oval FSB roses with rivet nuts and when
using the FSB fixing accessories 03 0526

PC 92 mm



Paper template

78 8429 0258
for FSB frame door door handles on an
oval rose with rivet nuts

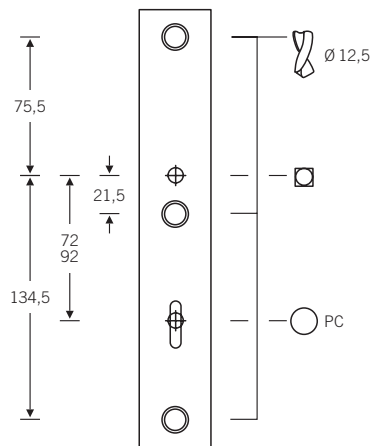
fsb.de/030481
fsb.de/030482

Fixing aids for Design + Security

03 0487

Fixing template for
FSB security fitting long backplate version

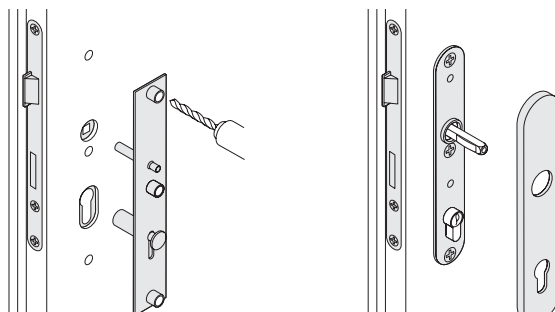
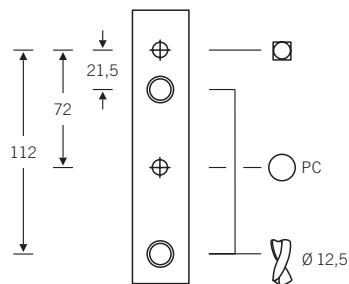
For variable use with
PC 72–92 mm



03 0488

Fixing template for
FSB security fitting short backplate version

PC 72 mm



Paper template

78 8429 0211–78 8429 0216
(depending on version) for FSB security
fitting

fsb.de/030487
fsb.de/030488

7b





Museum of the history of polish jews

www.jewishmuseum.org.pl/en

Lahdelma & Mahlamäki Architects,

Helsinki

www.ark-l-m.fi

FSB 1144 range of handles,

see page 210 f.

(Design: Jasper Morrison)

AGL®-/AGL® FS heavy duty fittings for

fire and smoke doors,

see page 26 ff.

Stainless steel, fine matt, brushed

www.fsb.de/jewish_museum

737	Sales organisation	8a
738	Handing details	
740	Terms and conditions	
742	Sales aids	
744	German standards (DIN)	
745	Directions to FSB	



You may have noticed it already: not only do we take a certain amount of care when preparing our catalogues and brochures. Our trade fair activities are also an important part of our sales work and corporate communications. Regardless of whether this relates to the architecture trade fair, BAU, in Munich, or exhibitions where we present our barrier-free ErgoSystem® or isis® access management system: you are always invited to visit us and get to know us in person. Where and when we from FSB can be encountered outside of Brakel around the world, you can find out here: www.fsb.de/dates

Sales/distribution partners

FSB project service worldwide



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Furthermore our qualified sales and specification team is available at all times for your questions and demands:

Spec Write

Nieheimer Straße 38
33034 Brakel
Germany
Phone +49 5272 608-213
Fax +49 5272 608-313
info@spec-write.com
www.spec-write.com

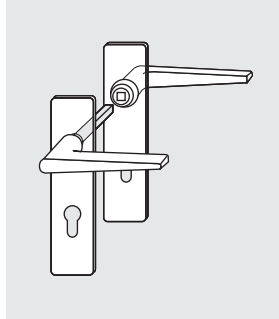
8a

Handing details

Door handle fitting

for DIN doors l.h.
opening inwards

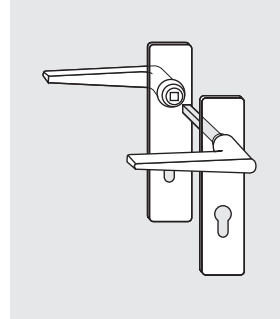
spindle part points right
aperture part points left



Door handle fitting

for DIN doors r.h.
opening inwards

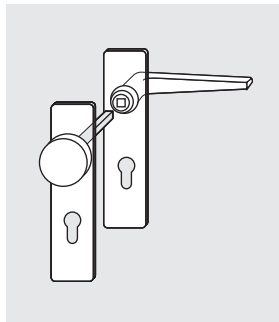
spindle part points left
aperture part points right



Entrance door fitting

for DIN doors l.h.
opening inwards

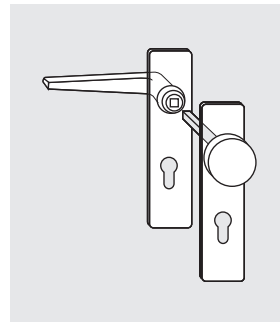
aperture part points left



Entrance door fitting

for DIN doors r.h.
opening inwards

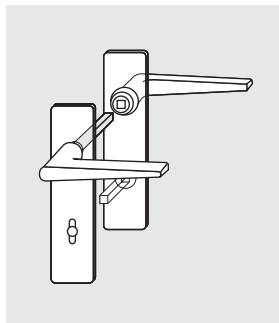
aperture part points right



Bathroom and WC fitting

for DIN doors l.h.
opening inwards

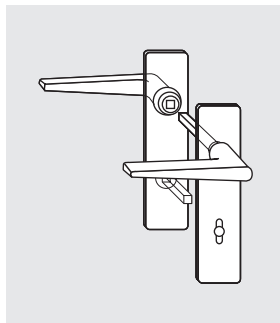
spindle part points right/
WC perforation
aperture part points left/
thumb turn



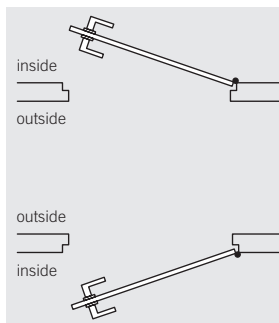
Bathroom and WC fitting

for DIN doors r.h.
opening inwards

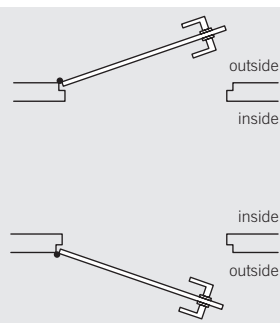
spindle part points left/
WC perforation
aperture part points right/
thumb turn



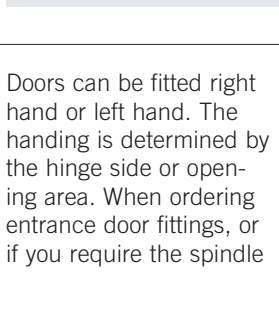
DIN l.h.,
opening inwards*



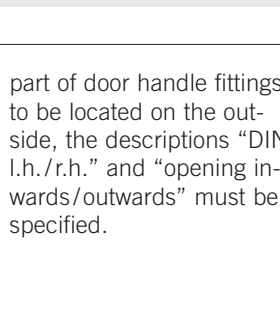
DIN r.h.,
opening outwards*



DIN r.h.,
opening inwards*



DIN l.h.,
opening outwards*



Doors can be fitted right hand or left hand. The handing is determined by the hinge side or opening area. When ordering entrance door fittings, or if you require the spindle

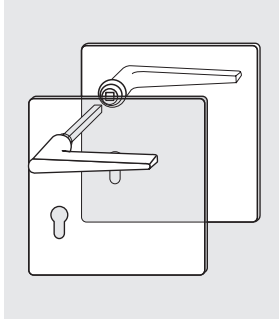
part of door handle fittings to be located on the outside, the descriptions "DIN l.h./r.h." and "opening inwards/outwards" must be specified.

* with isis® M/T = electronics side is always on the outside

Door handle fitting

for DIN doors l.h.
opening inwards

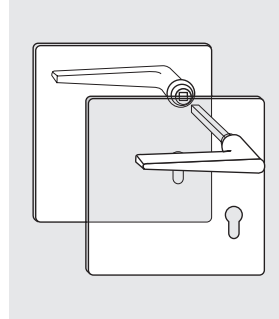
spindle part points right
aperture part points left



Door handle fitting

for DIN doors r.h.
opening inwards

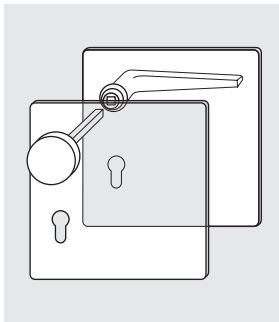
spindle part points left
aperture part points right



Entrance door fitting

for DIN doors l.h.
opening inwards

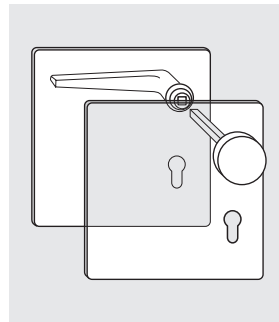
aperture part points left



Entrance door fitting

for DIN doors r.h.
opening inwards

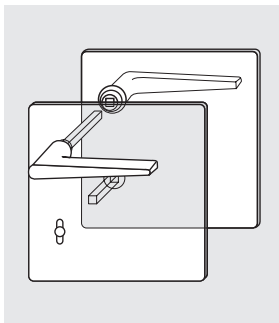
aperture part points right



Bathroom and WC fitting

for DIN doors l.h.
opening inwards

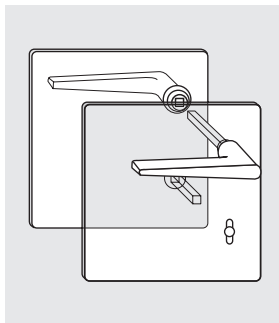
spindle part points right/
WC perforation
aperture part points left/
thumb turn



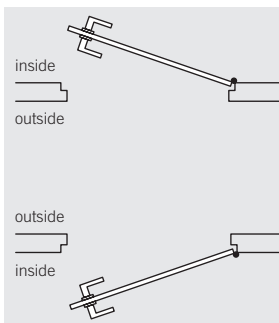
Bathroom and WC fitting

for DIN doors r.h.
opening inwards

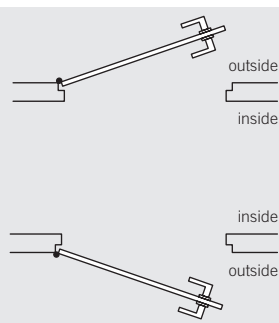
spindle part points left/
WC perforation
aperture part points right/
thumb turn



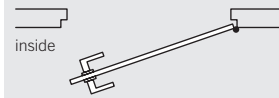
DIN l.h.,
opening inwards*



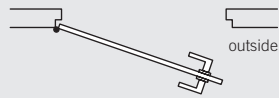
DIN r.h.,
opening outwards*



DIN r.h.,
opening inwards*



DIN l.h.,
opening outwards*



Doors can be fitted right hand or left hand. The handing is determined by the hinge side or opening area. When ordering entrance door fittings, or if you require the spindle

part of door handle fittings to be located on the outside, the descriptions "DIN l.h./r.h." and "opening inwards/outwards" must be specified.

* with isis® M/T = electronics side is always on the outside

Product liability

Under the Product Liability Act, FSB is liable for damage caused by faulty products,

the precondition being that, in terms of selection, installation and use of the products, all the applicable regulations set down in the FSB manual shall have been complied with.

We would also like to point out that what the law defines as product liability and what the end user actually expects of a product can be two very different things. Door and window handles, after all, are nothing more than tools for opening and closing doors and windows. Inevitably, these tools are also subject to the laws of wear and tear.

Despite the use of prime materials, production organised in accordance with ISO 9001, validation according to the EU “eco audit” and ISO 14 025 and ISO 14 001 certification, production faults can still occur, for whose rectification we are responsible.

The main definitions and regulations are summarised below.

1.0 Product definitions

1.1 Door handles + accessories

Door handles and their accessories are used to open and close doors. They do this in concert with the door frame, door hinges, door leaf, lock and cylinder. All these elements need to be coordinated with one another. Using a door handle to open and close a door, for example, requires the door not be locked. Only in certain exceptional cases, such as on panic doors, do special fittings release the locking function when the door handle or cross-bar is operated.

1.2 Tubular handles

The same applies to tubular handles. The door frame, door hinges, door leaf and other closing devices such as door closers need to be compatible with one another. It is particularly important to maintain the safety gap proposed at the factory between the edge of the door and the handle fastening.

1.3 Window handles + accessories

Again, window handles are just one part of a window. The method of closure will generally determine which type of handle is appropriate.

2.0 Improper use

Door handles, door pulls and window handles are subject comparatively often to improper use, which can lead to damage sooner or later and mean that they no longer retain the product features defined by the manufacturer.

Typical examples are:

- Door handles are used as supports, especially when on doors at the top of steep steps.
- Doors are used by children as a sort of roundabout, the door handles serving as the main source of support.
- In the absence of door stops, door handles and door pulls bang against the wall.
- Door handles and pull handles are used to hang heavy objects on.
- Door handles are used together with panic locks continually against the recommendation of lock and fittings industry instead of only in an emergency.

3.0 Product performance

Product performance is only defined by standards to a very limited degree. For the most part, product performance qualities are the up-shot of many years of experience and have become common property in the building hardware trade. FSB keeps to these generally accepted rules. The standards listed below apply to particular performance requirements.

DIN 18 255

This standard contains general benchmarks for door fittings and their accessories.

DIN 18 273

This standard contains special rules for fire and smoke safety doors.

DIN 18 257

This standard contains minimum safety requirements for security hardware.

FSB products are being constantly developed and production is continuously monitored by the FSB quality assurance department. We reserve the right to make technical modifications.

4.0 Product maintenance

Most FSB products are “implements” for opening and closing of doors and windows. Sooner or later, depending on what they are made of and where they are fitted, they will inevitably begin to show signs of wear. The properties of the various materials can be summarised as follows:

4.1 Aluminium

Aluminium has performed admirably in everyday use for many decades. The metal is protected by a tough anodised coating. Surface scratch marks in no way impair the functionality of the hardware but are simply a typical sign of ageing.

4.2 Stainless steel

Stainless steel is commonly regarded as being indestructible. In fact, even stainless steel can develop scratches and occasional rust patches. The latter is the phenomenon known as “flash rust”, which can be removed with the aid of standard cleaning agents.

4.3 Brass

Much has already been said in the FSB manual regarding the properties of brass. Whereas aluminium is more or less a pure metal, brass is a typical alloy, whose elements tend to corrode. We would therefore like to emphasise once again here that unlacquered brass components only retain their initial allure by being regularly cleaned. Once the coating of the lacquered brass fittings has been breached, unsightly corrosion sets in, which can only be rectified in our factory after a laborious stripping operation.

4.4 Aluminium + paint

In the case of painted door handles, FSB normally applies a flexible coat of paint approx. 80 microns thick, which lasts a long time given correct use. However, contact with sharp objects may cause slight dents.

4.5 Bronze

As far as brass and its properties as an alloy are concerned, this also applies in similar fashion to the alloy bronze. Culturally and historically speaking, the property of bronze especially for developing a typical patina over the course of its use is seen as a particularly aesthetic feature. In this respect, FSB only produces lacquered bronze fittings on specific request and furthermore draws attention to the fact that the same instructions apply to this surface as to lacquered brass fittings. In turn, the factory patinated bronze surfaces supplied by FSB may display production-related differences regarding the level of patina. These differences in no way impair the functionality of the hardware. These differences are in fact typical signs of bronze’s natural surface ageing process.

4.6 Care

All FSB products are largely maintenance-free. Once fitted, however, FSB recommends checking at regular intervals that they are properly positioned and that screw fastenings are secure.

Only water and a soft cloth should be used to keep FSB hardware clean.

5.0 Product information and instructions

For information and instruction purposes, the following material is available:

For stockists, architects and consultants: catalogues with all the necessary detailed descriptions.

For installers: besides the catalogues, fitting instructions and templates and, for special designs, technical drawings.

For end users: fitting instructions, templates, instructions for use and – in specific instances – care instructions, which are supplied with the product packs.

To ensure the correct functioning of door and window hardware:

- Architects and designers are urged to bear in mind where and under what conditions the hardware is going to be used and to select the right fittings accordingly. In case of doubt, any queries should be addressed to the building hardware wholesalers, the FSB field sales representatives, or FSB itself.
- The retail trade is urged to rigorously double check the specifications provided by architects, designers and clients and to compare them with the specifications of the fittings selected.
- Installers are urged to make sure they receive all the product information, fitting and maintenance instructions from the retail trade, which allow them to fit the hardware correctly and to pass on any relevant information to the customer.

Our terms and conditions

We supply and provide our contractual services on the basis of our terms and conditions (T&Cs) valid at the time of

our offer. The current version of our T&Cs can be downloaded at any time under www.fsb.de/termsandconditions on the

Internet from our website. We are also happy to send you the current version of our T&Cs on request.

You may be wondering why it is we have so much to say on the subject of sales aids. The fact is that in no way do we regard this as a peripheral issue.

After all, fittings are not replaced within short spaces of time. They are expected to perform day in day out over many years. Opting for the wrong product – wrong in terms of quality, design or, indeed, profit margin – can take a long time to put right. That is why it is important to support the decision-making process from an early stage so as to guide the customer towards choosing the right product at the decisive moment.

The enlightened purchaser and customer expects to find reasonable displays, easy to read catalogue material and pertinent sales arguments at the point of sale. FSB has always endeavoured to oblige.



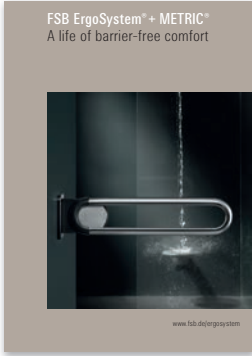
1. Displays and sample boards

We at FSB do not go along with turning display areas into supermarkets and confronting the end-user with a hotchpotch of hardware. For this reason, we have developed an all-in-one display module, which is so variable that it can easily be adapted to fit the space available.

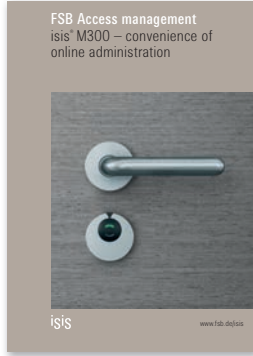
As a means of keeping key elements of the FSB range well apart from competitors' offerings even in the most cramped of spaces, we have also come up with a three-sided rotating merchandise stand. This allows upwards of 40 FSB products to be excellently exhibited on half a square metre of floor space at most. There is also a special rotating merchandise stand for FSB's wide range of main entrance door fittings.

Our sample fittings are combined with special lock mechanisms so that the customer can get a feel for how they work in practice. Sample boards come in both standard and custom sizes. Architects are often not satisfied with mere sample boards, however. Instead, they want to see how the fitting works in conjunction with lock and cylinder on a small door element. We supply special sample blocks just for this purpose.

The same is true for providing samples of our flush hardware solutions. For all those who want (or have) to travel with the FSB range, we have designed special sample cases. They can be purchased or, in individual instances, hired. FSB's Field Service can tell you about the arrangements.



FSB ErgoSystem® + METRIC®
A life of barrier-free comfort



FSB Access management
isis® M300 – convenience of
online administration



FSB Recessed pulls
Purist points of focus

2. Catalogues and brochures

As you may have noticed, for many years now FSB has been putting a lot of effort into its catalogues and brochures. (You are holding the latest evidence of this in your hands). And, to our great joy, the trade and public both definitely appear to have appreciated our efforts. This has inspired us to further expand our range of written sales and information aids.

The quickest and most direct access to all our available FSB material can be found on the Internet under fsb.de/brochures

Thumb rest



Forefinger furrow



Support for the
ball of the thumb



Gripping volume



3. Sales arguments

All retailers know (and dread) the classic question from the customer that goes: “And what would you recommend?” Thus begins, more often than not, a host of platitudes, such as everyone has their own taste, or this is currently in fashion, or that is selling particularly well at the moment. But are these good or at least adequate sales arguments?

We don't think so. In light of this, we have published a whole series of books – the FSB Edition – about the problems of gripping, the design of pulls and virtually every aspect of “handle culture”. Anyone wishing to extend his or her repertoire of sales arguments is urged to consult them – and in doing so will inevitably stumble on the best sales argument of all: the “Four rules of gripping” devised by FSB, the handiest aid to deciding which handle to buy. Because any enlightened end user can effortlessly reproduce them with his own hands.



8a

German standards (DIN)

Without laying any claim to being exhaustive, below is a selection of German Industrial Standards (DIN) relevant to doors and windows:

DIN 107

Identification of left and right side in the building trade

DIN 4102, Supplement 1

Fire behaviour of building materials and components; tables of contents

DIN 4102, Part 5

Fire behaviour of building materials and building components; fire barriers, barriers in lift wells and glazings resistant against fire; definitions, requirements and tests

DIN 4102, Part 13

Fire behaviour of building materials and components; fire resistant glazing, definitions, requirements and tests

DIN 4102, Part 18

Fire behaviour of building materials and components; fire barriers, verification of "automatic closure" (continuous performance test)

DIN 1080, Part 1

Terms, symbols and units used in civil engineering, principles

DIN 18 055

Windows; air permeability of joints, water tightness and mechanical strain; requirements and tests

DIN 18 082, Part 1

Fire barriers; steel doors T 30-1, construction type

DIN 18 095, Part 1

Doors; smoke control doors; terms and requirements

DIN 18 095, Part 2

Smoke control doors, type testing for durability and leakage

DIN 18 100

Doors; wall openings for doors; dimensions in accordance with DIN 4172

DIN 18 101

Doors; doors for residential buildings; sizes of door leaves, position of hinges and lock; interdependence of dimensions

DIN 18 111, Part 1

Door frames; steel door frames; standard door frames for rebated doors

DIN 18 250

Mortise locks for fire barriers

DIN 18 251

Locks; mortise locks for doors

DIN 18 252

Locking cylinders for door locks; terminology

DIN 18 254

Lock cylinders for door locks; dimensions, requirements, testing for profile cylinders with pin tumbler locks

DIN 18 255

Building hardware; door handles, door plates and door roses; terms, dimensions, requirements

DIN 18 257

Building hardware; security fittings – definitions, dimensions, requirements, testing and labelling

DIN 18 267

Clickable and lockable window handles

DIN 18 268

Building hardware; hinges for doors; reference-lines for hinges

DIN 18 273

Building hardware; door handle fittings for fire safety doors and smoke safety doors; definitions, dimensions, requirements and testing

DIN 18 357

Contract procedure for building works Part C: General technical terms of contract for construction work; installing window and door fittings

DIN 18 361

Construction contract procedures; Part C: General technical requirements for construction work; glazing

DIN 58 125

School buildings, structural requirements for the prevention of accidents

DIN 68 706, Part 1

Interior doors made from wood and wood-based panels; door leaves, definitions, sizes, construction features

DIN EN 179

Emergency exit devices operated by a handle or push pad – Requirements and test methods

DIN EN 1125

Panic exit devices operated by a horizontal bar – Requirements and test methods

DIN EN 1303

Cylinders for locks – Requirements and test methods

DIN EN 1627

Windows, doors, barriers – Anti-burglar devices – Requirements and classification

DIN EN 1628

Windows, doors, barriers – Anti-burglar devices – Test methods for establishing resistance under static loads

DIN EN 1629

Windows, doors, barriers – Anti-burglar devices – Test methods for establishing resistance under dynamic loads

DIN EN 1630

Windows, doors, barriers – Anti-burglar devices – Test methods for establishing resistance to manual attempts to break in

DIN EN 1670

Corrosion behaviour – Requirements and test methods DIN EN 1906 building hardware, door handles and door knobs – Requirements and test methods

DIN EN 12 209

Mechanically operated locks and striking plates – Requirements and test methods

DIN EN 12 217

Operating forces on doors

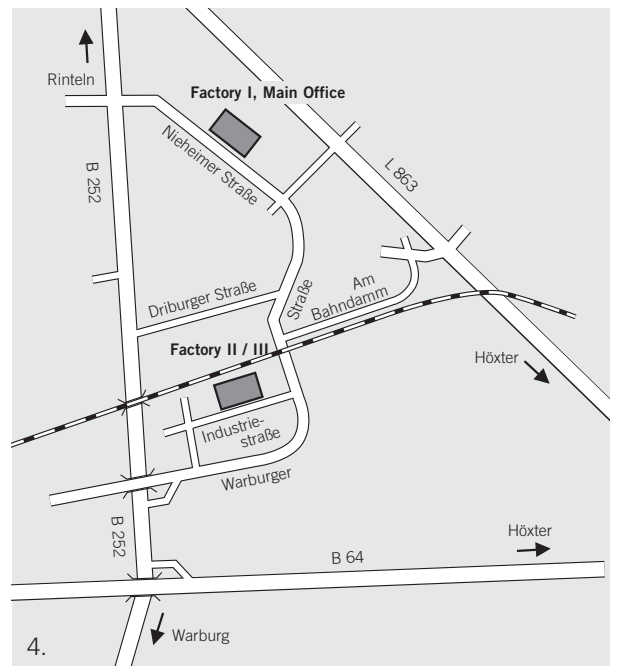
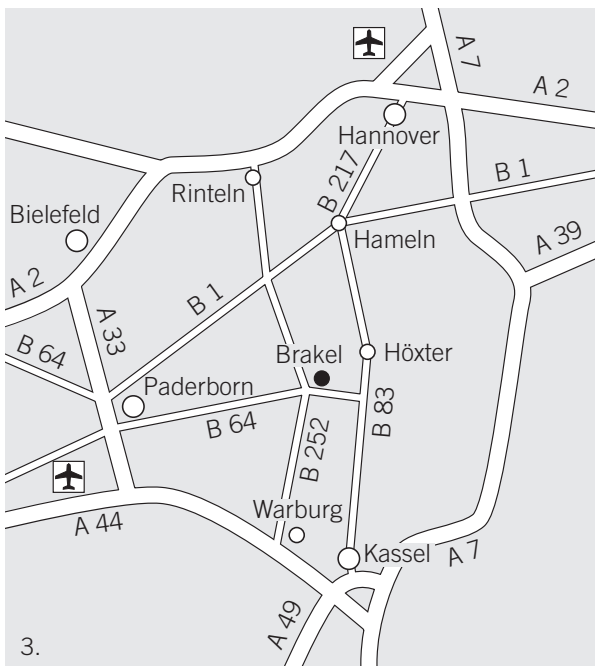
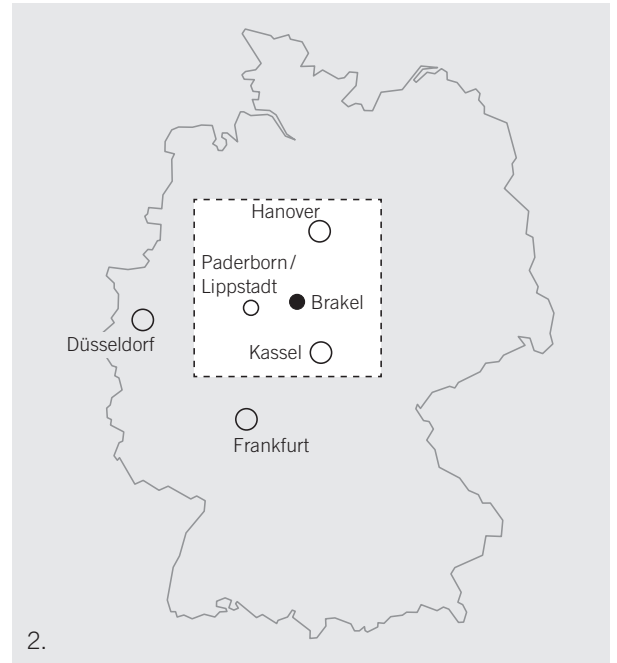
DIN EN 13 126-3

Window handle requirements

DIN EN 13 724

Residential letter boxes; requirements, testing and installation

Directions to FSB



1. Brakel is situated in the most south-easterly corner of the state of North Rhine Westphalia in Germany. Geographically speaking, it is where the Egge Mountains merge with the Weser Uplands.
2. Paderborn is linked to the airports in Berlin, London, Munich, Paris, Stuttgart, etc. The Kassel-Wilhelmshöhe intercity railway station is 55 minutes from Brakel by car. Distances to the most important airports in Germany: Düsseldorf approx. 200 km | Frankfurt approx. 220 km | Hanover approx. 120 km.

3. Brakel is reached by car from the north via the Hanover-Dortmund motorway, exit Rinteln, then taking the main road Rinteln-Barntrop-Blomberg to Brakel. The distance from Rinteln to Brakel is about 90 km. When coming from the south, leave the Kassel-Dortmund motorway at the Warburg/Brakel exit and drive from Warburg via Peckelsheim, Siddessen and Rheder about 35 km to Brakel.
4. FSB has two production sites in Brakel. The main offices are located together with the aluminium foundry, the tool making and development units at Nieheimer Straße 38. Factories II and III are located together along with the logistics centre on the Brakel industrial estate at Industriestraße 12.

8a

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2a

er Dinge



The FSB exhibition stand at fensterbau frontale 2012. The completely “green” accreditation of the FSB range according to ISO 14 025 resp. EN 15 804 provided the guiding theme: sustainability. The associated motif from the current FSB advertising campaign – “the tree” – was installed on site on the inside wall of the exhibition stand made completely of FSB products (including more than 600 door knobs in the design by Philippe Starck and nearly 250 door handles created by old master, Hartmut Weise).



After the trade fair, all the fittings were carefully dismantled and taken back to Brakel, since when they have been adorning our training centre, also as a “tree”. Sustainability in practice ...



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