FSB ErgoSystem® + METRIC® A life of barrier-free comfort





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Over 135 years of handle culture: FSB at the cusp of humanity and architecture

FSB is the brand for door and window hardware in "Project" buildings. Without a doubt, our being a number one choice amongst architects and project planners also has something to do with the expertise we have gathered in all aspects of "handle culture" over the past 135 years and more. Take a look back with us.

1881

Established at Iserlohn by Franz Schneider under the name of "Westfälisches Metallwerk". Company moves to Brakel in 1908, adopting the new name of "FSB" as the acronym for Franz Schneider Brakel. Production focuses on cabinet furniture.

1920s

The Bauhaus defines a new conception of design ... and FSB picks up the thread. The company switches to producing door and window hardware, in the process laying the foundations for adopting an approach based on the Bauhaus philosophy.

1950s

"In-house designer" Johannes Potente develops the moulded-to-the-hand design that has continued to characterise FSB to the present day. Door handle 1051 is a design classic of the 1950s and 1960s to match designs by the likes of Charles and Ray Eames, Arne Jacobsen etc.

Early 1980s

Company mentor Otl Aicher, whose achievements include designing the public images of the 1972 Olympic Games and Lufthansa, initiates a further reappraisal of corporate and product identity.

1980s - paradigm shift

FSB makes products for the hand: door handles become an interface between people and architecture and are upgraded into key constituents of architecture and design ventures. FSB turns its entire product range on its head, moreover, and comes up with innovations such as its AGL® compensating bearing. This ingenious item of handle engineering is still the non plus ultra for heavily used doors today.

1986

"Handle Workshop" at Brakel. Participants include Alessandro Mendini, Dieter Rams and Mario Botta. This event has spawned numerous design collections by architects and designers such as David Chipperfield, Jasper Morrison, Christoph Ingenhoven, Philipp Starck or Alfredo Häberli in the period since.

1990s

The four door handle designs 1051, 1020, 1046 and 1058 are added to the permanent collection at the Museum of Modern Arts (MoMA) in New York.

21st century

FSB products from the eastern Westphalian sticks have come to be loved the world over. The "made in Brakel" tag is a guarantor for timeless design, functional technology, durability and sustainability both at home and abroad.

FSB is quick to respond to demographic change by launching its barrier-free Ergo-System® concept in 2003, a system that transcends individual handles to deliver spatial sequences of hardware. It is a classically discreet system that marries the merits of ergonomics and architecture.

It is founded on a range of handles in shiny Stainless Steel in differing variants and lengths. It is of its essence rooted in the laws governing ergonomic grip. The unique diagonal styling of its oval crosssection makes for optimised gripping that requires less effort. Functionality, aesthetics and ergonomics add up to a compelling whole with ErgoSystem®. It is a system that becomes universally applicable in combination with accessory elements such as toilet roll holders, pushbutton actuators, armrest pads or shower seats with rotatable, tip-up seat sections. Functionality, aesthetics and ergonomics make our Ergo-System® a compelling all-in performer (ErgoSystem® E300).

2015 saw FSB launch its ErgoSystem® A100, a must for budget-conscious projects that operates with an innovative colour concept. Constructed in powder-coated Aluminium, ErgoSystem® A100 adds multifarious new interior-design options to the existing system's benefits of convenience, ergonomics and design. ErgoSystem® A100 allows detailed account to be had to brightness reference values whilst being conducive, where it is the client's individual taste that counts, to utterlydistinctive design and colour schemes.

For you to integrate FSB into your schemes would give us great pleasure. We will gladly make ourselves personally available to assist in your planning processes and provide comprehensive advice. Our Public Project consultants are listed under www.fsb.de/contact.

Made in Brakel Germany

^{1 |} FSB is a byword for select leading-edge manufacturing technology

^{2 |} Security fitting Design + Security FSB 73 7360

^{3 |} Door lever handle FSB 1004, design: David Chipperfield

^{4 |} ErgoSystem® A100 in the Gerda St. Niklaas residential home for the elderly in Belgium

^{5 |} Sliding door fittings by FSB: space-saving and also ideal for sanitary areas

^{6 |} Fingerscan F100 | 200 | 300: rails with biometric function

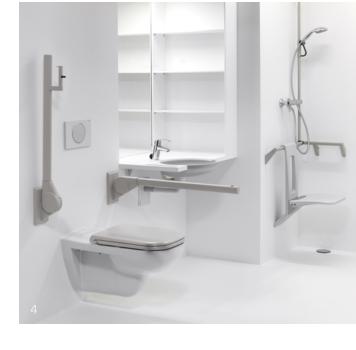














Hospitals, nursing schemes, halls of residence or luxury hotels -ErgoSystem® is the Number One choice for them all

Barrier freedom has long become a must for residential and nursing schemes that are up with the times. With its Ergo-System®, FSB has just the solution for the most varied of operator and client requirements. That's down to an ideal mix of design, function and value-added. The system's inclusion in top-notch hotels as well as public and private buildings is graphic proof of this.

Just as you would expect from a brand whose design quality is cherished by the world's most noted architects, ErgoSystem® embodies a fundamental approach to design in which aesthetics and functionality do not conflict. There are, however, also planning, commercial and purely practical aspects that make it particularly easy to opt for ErgoSystem®.

Quality instils confidence

Enterprises devoted to healing or nursing do not solely define themselves in terms of the specialist functions they perform these days: the customer or patient also considers "soft" factors when choosing a clinic or nursing home. Pleasant surroundings and first-class service engender a wider sense of wellbeing that is suggestive of a high level of quality overall. The general setting has the subliminal effect of making people feel they will be well nursed and medically looked after. They are at the centre of things instead of being treated as just another "case". They are actively integrated into the healing process and this reinforces and motivates a feeling of selfsufficiency within.

Mobility and the ability to cope alone, notably in the sanitary sphere, are elemental prerequisites for this. ErgoSystem® helps facilitate these capabilities with the likes of flexibly deployable A-Flex components that act as an aid to coping alone when and wherever this is required. Far from shouting its clinical function out loud, it subtly blends in with the architecture around. Indeed, ErgoSystem® boasts a presence that makes it a prime candidate either for hotels or for use in the home, where it offers a great degree of convenience and comfort without in any way being obtrusive.

Safe, economical investment

Opting for what is at first glance the most cost-effective solution can soon prove to be an expensive blunder in the Public Project sector. Business managers do not draw the bottom line beneath investment costs alone, after all, but go on to calculate ongoing operating costs and the cost of servicing, maintenance and replacement procurement over a system's entire useful life. This is where ErgoSystem® scores heavily and generates significant savings.

We imbue our products with uncompromising quality and longevity to ensure the figures tally, derived in part from leading-edge production methods and the exclusive use of premium-quality parts. Use is made of extruded sections and CNCmilled components as well as of needleroller and sliding bearings for working parts – with perfectly matching dimensions in all cases. The metal-working expertise FSB has amassed over the past 135 years has yielded engineering solutions for which we are the envy of the trade: the 3-dimensionally curved oval tube for our grab rails is a speciality "made in Brakel" whose diagonal-oval cross-section guarantees unbeatable ergonomics for the act of gripping. ErgoSystem's function-driven, low-maintenance, economical design also manifests itself in the care and servicing it requires: dispensing with seams and joints in easily-soiled areas makes the system easier to clean. Neither do disinfectants harm its surface areas.

Superlative proven materials combine with timeless looks to transcend fads and trends and seamlessly blend in with any interior design scheme. Polished Stainless Steel is an alternative, moreover, to the standard chrome finishes in the sanitary sphere.

Bespoke requirements? As flexible to produce as it is to use!

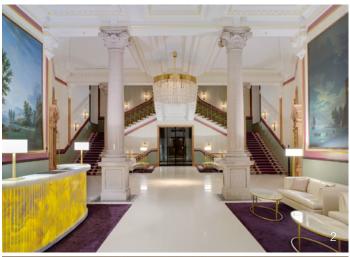
Flexibility is guaranteed by a completely barrier-free system comprising more than 400 products that can be combined and added to in line with the application in hand. Flexibility is crucial from the moment a structure is planned and built. FSB can be of assistance in a solution-driven way in this respect. Handrails to exactly match a tiled section? Shower curtain rails to precisely run round alcoves or corners? Lastminute modifications due to planning errors or unforeseeable structural factors? This is where our bespoke project management comes into its own. With its aid we provide you with targeted support to prevent deadlines even threatening to become a problem: design, development, design engineering, tool making and product manufacture are all at the same address in Brakel – where a suitably dependable interlocutor awaits you.

All good reasons to go for value-added "made in Brakel" and the barrier-free Ergo-System®. A list of those who have already done so is to be found from page 172.

Here's ErgoSystem® in action:

- 1 | Conseil National, Monaco 2 | The Dolder Grand Hotel *****, Zürich
- 3 | Erich Kästner School, Oelde
- 4 | AZ Sint-Jan at Bruges
- 5 | St. Ansgar Hospital, Höxter
- 6 | Ventoux residential home for the elderly at Bruges
- 7 | University Hospital, Düsseldorf











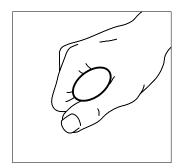


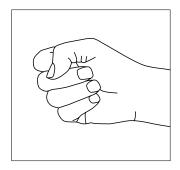


Barrier-free ErgoSystem®. We have harnessed our architectural expertise to a system with whose aid people of all ages can structure their lives more conveniently without making any sacrifices in terms of product design.

ErgoSystem® E300 and A100:

One system, two variants







Functionality, ergonomics, aesthetics: these are the three concepts underpinning the ErgoSystem®, the upshot of our applying more than 135 years of excellence in all aspects of "handle culture" to the design of barrier-free products for sanitary applications.

We see ErgoSystem® as a "design-forall" concept that addresses the needs of people of all ages – regardless of whether they be children, adolescents, (young) adults, those in the "prime of life", the over 50s or 60s, the so-called "elderly" or whatever titles marketing strategists may have concocted for them. The system's comprehensive range includes products tailor-made for those who simply desire a bit more convenience, products which, once used, they will never wish to do without again. A multiply award-winning design that pleases the discerning eye just as much as it does hands on rails proves that functional and ergonomic products can (or, in our view, must) also look good.

The classic ErgoSystem® E300 (E = Stainless Steel, 300 = "high grade"/heavy duty), embodies peerless system depth, superior design and well-conceived functionality. ErgoSystem® A100 (A = Aluminium, 100 = attractively priced/heavy duty) meets the same quality standards whilst also scoring heavily in terms of budget-consciousness, handling and harmonised interiors. Whereas ErgoSystem® E300 is often preferred for exclusive fit-outs (e. g. in hotels) and optional treatment areas (i. e. private wards), ErgoSystem® A100 allows budgetsensitive projects to likewise benefit from FSB quality.

Common to both system segments is the fundamental notion, unique to the marketplace, of a diagonally aligned, oval grip cross-section that rigorously observes the ergonomics of good grip to deliver unparalleled convenience and dependable support.

There is a basic difference between taking hold of an object and enclosing it. Enclosure involves the whole surface of the hand and hence a far more extensive transmission of forces. The act of enclosing is the most archetypal form of grip: we all resort to it instinctively whenever we have to 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. As a result, far less force needs to be exerted by the hand to prevent it losing its grip than with a circular cross-section.

Oval styling offers the greatest possible support whilst requiring little muscular exertion. The oval section is thus organically predisposed to being adopted as a shape for handles – especially if it is rotated through 45° so as to become tilted diagonally forwards. This echoes the spatial sequence gone through when taking hold of something. The arm is in search of direction and support and describes a diagonal motion issuing from the shoulder joint and finding completion in the act of enclosure. A sturdy triangle is thus formed between the hand and shoulder used and the area the person is standing on. This causes bodily force to be transmitted via arm and hand to optimum effect.





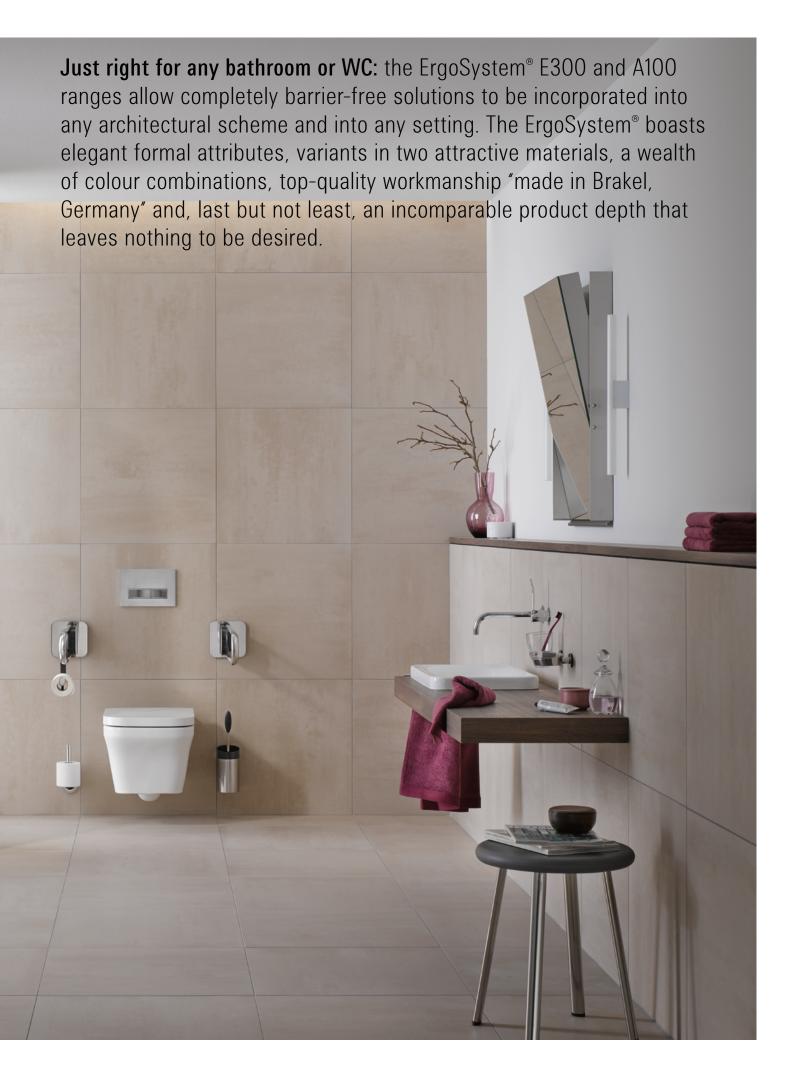












ErgoSystem® E300 and A100

Superior in every respect

ErgoSystem® E300 and A100



Made in Germany

FSB develops and manufactures its products in Brakel



Customer's wishes paramount

Bespoke solutions with custom dimensions and finishes



In-house tool manufacture

Speedy and flexible production



Award-winning

red dot and ICONIC AWARD to name but two; CE label pending



Hands grip ovally

The hardware's unique elliptical styling allows it to be firmly gripped with less effort

ErgoSystem® E300



Stainless Steel

Available in either a satin-matt or polished finish, it is extremely corrosion-resistant and virtually impervious to bump and scratch marks



Hygiene

High-grade steel is said to have disinfectant properties and is particularly easy to look after



Variety

Incomparable system depth with over 400 products for virtually any conceivable application in bathrooms and WCs

ErgoSystem® A100



Visibility

Variable colours make for optimum visibility and greater safety (brightness reference values)



Colour variants

Six standard and over 100 RAL colours (to order) ensure any setting can be catered to



Budget-conscious

Convenience, safety and highquality design go hand in hand with cost benefits

For instance:

ErgoSystem® E300 drop-down support rail

Pages 42 f.



For instance:

ErgoSystem® A100 drop-down support rail

Pages 108 f.





Customised production

Bespoke lengths and product variants at attractive prices



High loading capacity

Up to 100 kg at the front edge of the drop-down support rail



Flexibility

Detachable drop-down support rails for temporary and need-responsive deployment



Spring-assisted retardation

Drop-down mechanism with adjustable ease of action; no loss of function even if robustly handled



Comfortable to use

No danger of hands getting caught when returning the drop-down support rail to the vertical position



Visibility

Optionally with recessed LED push button providing colour-coded acknowledgment when operated

Further merits of the E300 drop-down support rail



Handling convenience

Rails set at an angle of 45° for optimum transmission of forces and less exertion when held onto



Security

Detachable drop-down support rails (A-Flex solution) are fitted with an anti-theft device

Further merits of the A100 drop-down support rail



Compactness

Concealed wiring for drop-down support rails with push buttons



Universally deployable

Can be fitted to the right or left owing to its being of non-handed design For instance:





Comfortable to use

Body-contour design with no sharp edges or nipping points and conforming to DIN 18 040



Flexibility

Hooks into place as and when required



High loading capacity

Copes with loads of up to 150 kg



Safety

Seat section that can be folded away to save space with end-position click-stop mechanism for safe operation



Handling convenience

Seat sections in kind-to-the-skin PUR and gripping volume in the backrest



Hygiene

Seat section with hygiene aperture and sealing rings around its hinge as a precaution against soiling and corrosion



Optional extras

With floor support and armrest(s); alternatively available: tip-up shower seat for wall mounting with rotating seat section, shower and bath stool

For instance:

ErgoSystem® E300, A100 (illustrated) and METRIC® shower-head holder Pages 72, 128





Minimum exertion of force

Single-handed operation child's play even with lathered hands, ideal for young and old alike



Universally deployable

Shower-head holder can be effortlessly re-assembled for right- or lefthand use



Clamping action

Individually adjustable, allowing it to be pulled downwards by children tugging at the hose, for instance



Adaptability

Continuous height and tilt adjustment with one hand and without any turning action required



Flexibility

Suitable for all commonly retailed brands of shower head



Handling convenience

Ergonomically styled stirrup handle for safe operation



ErgoSystem® A100 handrail combinations and grab rails Page 114



Customised production

Bespoke lengths and product variants at attractive prices, can be shortened on site



Flexibility

Detachable handrail combinations for deployment as and when required



High loading capacity

Up to 100 kg, with stability provided by the triangle formed by wall, bracket and rail



Handling convenience

Brackets set at an angle of 45° to the wall make taking hold easier



Precision

Tolerance compensation of ± 2 mm at the assembly stage courtesy of the assembly shoe



Optional extras

Suspended seats, utensils trays and shower rails can all be added





FSB Anti-Infection Coating + barrier-free FSB ErgoSystem®

Hygiene for sensitive areas

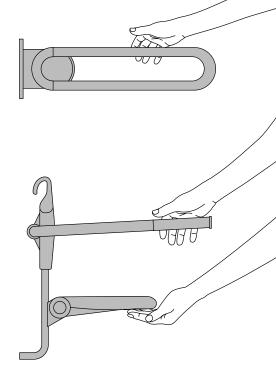
The handles and levers of FSB's barrierfree ErgoSystem® have been designed with a diagonal-oval cross-section that precisely conforms to the principles of grip ergonomics. That same precision was applied in designing the anti-bacterial FSB Anti-Infection Coating to meet the requirements for hygienically sensitive areas.

Handrails, handles and levers – but also any attachments and accessories found in sanitary facilities – are associated with a great potential risk of pathogen transmission. The ErgoSystem® literally has a good handle on cleanliness: the optional antibacterial coating should be used to treat all surfaces found in areas in which maximal hygiene is paramount. The FSB Anti-Infection Coating can be applied to Stainless Steel products of the Ergo-System® E300 as well as the Aluminium products of the A100 line.

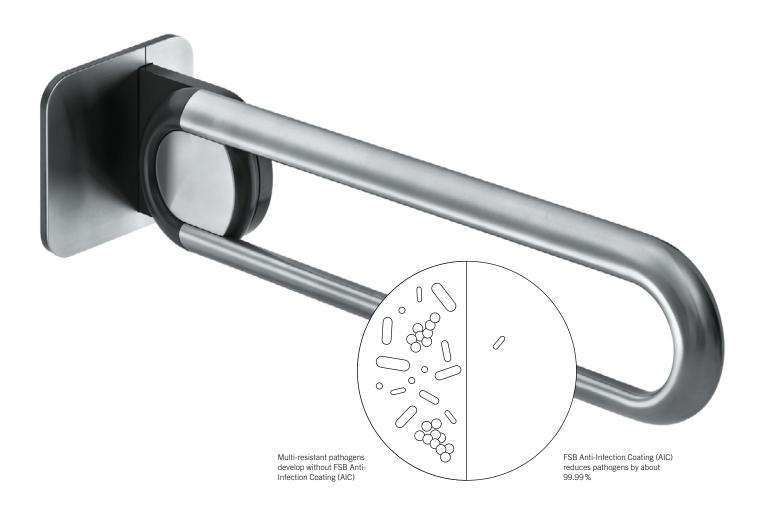
The ErgoSystem® fulfils customer expectations with its subtle design, extensive range of colour combinations and unrivalled system depth.

The handles and levers that can be treated with AIC include a number of different handrail combinations (e.g. for shower areas as well as hallways), angled rails, and handrails of various lengths, all of which conform to the NF P 99-611 standard. The handrail segments can be ordered in individual lengths up to a maximum length of 1250 mm, allowing them to be adapted to existing mounts or other special structural features.

More information on the products is available at www.fsb.de or contact your personal sales representative at www.fsb.de/contact



FSB Anti-Infection Coating (AIC) at a glance



Tried and tested efficacy

Reduces multi-resistant pathogens by 99.99%. Certified to ISO 22 196:2011 (effect of anti-bacterial activity on Stainless Steel and Aluminium surfaces).



For hygiene-sensitive areas

We recommend AIC in the first instance for hygiene-sensitive areas in hospitals and nursing institutions, though it suggests itself just as readily for public buildings, hotels, canteen kitchens or cruise liners.

Double the cleanliness

AIC is an environmentally friendly, non-toxic coating of the kind also used in the food industry and does not contain either nanoparticles or silver ions.

Easy-care

AIC withstands all commonly marketed cleansers and disinfectants.

For Stainless Steel and Aluminium

All FSB products in Stainless Steel and Aluminium — both anodised or powder-coated in RAL colours — can be treated with AIC.

Dependable action

To ensure the continuous control of 99.99% of all germs, we recommend re-applying the coating every 24 months. Products can be re-treated on site by FSB customer service operatives. Please consult the FSB Field Service for further information.

Marking of coated products

With AIC being colourless and hence invisible, coated products are marked on the back so as to be able to tell them apart from their non-coated counterparts when they are fitted.





Premium line in Stainless Steel

It is not without reason that ErgoSystem® E300 in Stainless Steel, a treat not only to the hand as it grips but also to the discerning eye, has established itself over the past ten years and more as the Number One choice amongst architects and clients who lay particular store by convenience and design.

ErgoSystem® E300 is helpfully at hand without having the aura of a clinic or rehab equipment. With its timeless good looks, it will suit any bathroom architecture perfectly, enhancing levels of comfort without looking out of place. The principle informing the ErgoSystem® derives unequivocally from the ergonomics of grip. The diagonal alignment of its oval cross-section — a unique market design — affords the hand optimum gripping quality whilst reducing the force it exerts when taking hold of the hardware.

Flexibility is guaranteed by a completely barrier-free system comprising more than 400 products that can be combined and added to in line with the application in hand. ErgoSystem® E300 facilitates the flexible planning of exclusive fit-outs through a comprehensive range of grab rails, drop-down support rails and seat solutions that can be combined with the most diverse of accessory items so as to add further functions as specifically required. The range of add-on products with matching function and system properties includes shower rails with showerhead holder, care-responsive products such as splash guards and safety belts, and classic sanitary accessories such as towel holders, storage trays and mirrors. Top-quality machining and the exclusive use of premium materials are part and parcel of the FSB tradition. Stainless Steel with a satin matt sheen is the number one choice. Seat sections are in kind-to-theskin PUR.

With A-Flex, FSB offers a well-conceived means of flexibly and demand-responsively fitting spaces out with barrier-free components from the ErgoSystem® E300 range. A-Flex can be particularly recommended for hoteliers or the operators of hospitals with private wards, who can use it to cater to the individual or acutely changing needs of guests and patients. The system yields benefits in the form of significantly lower costs for the initial fit-out, as the spaces concerned are merely fitted with an A-Flex support plate and use can be made of drop-down support rails and tip-up shower seats as required.

Anti-ligature variants of selected products from the ErgoSystem® E300 range are additionally available for use in special areas such as prisons, forensic units or psychiatric establishments (see page 82 ff.).

ErgoSystem's formal and functional credentials are veritably superlative: three of its products have won the "red dot award" one of the most prestigious international design prizes. The jury made its award for high design quality in respect of an ergonomic suspended seat, an understatedly designed tilting mirror and a showerhead holder for single-handed operation. "What more can one ask of design", was its unanimous response. Over the past few years, ErgoSystem® E300 has already garnered an iF Award, the "Design Prize of the Federal Republic of Germany" and the "architecture + health Innovation Prize". It has also been accorded the quality kitemarks of the German Society for Gerontological Technology and the Rhineland Technical Inspection Agency. ErgoSystem® has – like all products by FSB – been certified in accordance with EN 15804, allowing it to fulfil even the most ambitious prerequisites for sustainable building.

ErgoSystem® E300 + METRIC®

Materials and finishes



In 1912, the Krupp company in Essen took out the first patents for a new material that was initially known as "Nirosta" or "V2a steel". It soon made its mark in a wide variety of applications including container construction for the chemicals industry, structures used in the building of cars and aircraft as well as building materials and household appliances.

The generic term "Stainless Steel" now embraces over 100 separate rust and acid-resistant steels. We use chromiumnickel steel bearing Material No. 1.4301 under German standard DIN 17440 when making our builders hardware. It contains approx. 18% chromium and 8% nickel, an alloy that has been tried and tested in the builder's trade.

Properties that speak for themselves

Stainless Steel is an excellent choice for bathrooms and sanitary areas because its surface is extremely corrosion-resistant, hardly shows knock and scratch marks however roughly treated, is virtually non-wearing even if in constant use, and — primarily by dint of the chrome and nickel additives in the alloy — is very easy to look after. An invisible passive layer forms on its surface that is even claimed to kill bacteria.

FSB supplies ErgoSystem® E300 in Stainless Steel Satin Matt (FSB 6204) and Polished Stainless Steel (FSB 6205). The stock Stainless Steel Satin Matt variant is particularly robust. Polished Stainless Steel is an environmentally friendly alternative to chrome-plated finishes and is produced to order.

Tough as you like: areas of application

We recommend ErgoSystem® E300 in Stainless Steel for all heavily frequented areas, notably public buildings, hospitals and old people's/nursing homes, office buildings, ships, motorway service stations or parks and sports grounds — indeed, wherever people convene in large numbers and there is a need for easy-care hardware with a long service life.



Care? Easy!

Builder's hardware in Stainless Steel does not really need any looking after at all. Dirt marks can be removed with a damp cloth. Should signs of rust appear on outdoor hardware or that used in chlorinated swimming baths after a while, this is what is known as flash rust, which is external in origin as opposed to emanating from within the material and can be removed with vigorous rubbing.

Use should not be made of abrasive agents when cleaning ErgoSystem® E300 components in powder-coated Aluminium (brackets, fasteners etc.). These inevitably give rise to fine scratches and hence to a duller finish.

Brackets with custom coatings

FSB offers you the option of having any of the Aluminium components in its Ergo-System® E300 range, which are coloured dark-grey as standard, coated to order in almost any RAL colour. ErgoSystem® E300 "public project" fitments can be made to blend in with or accentuate bespoke schemes in this way.

Find out more on this on page 101.

Finishes

- ① ③ FSB 6204 Stainless Steel Satin Matt
- ② 4 FSB 6205 Polished Stainless Steel

fsb.de/ergosystem 17

Features and benefits

System features

- FSB's ErgoSystem® E300 conforms to all sections of DIN standard 18 040.
- ErgoSystem® E300 is certified to TÜV/ GS (product safety) and TÜV/GGT (comfort & quality).
- High resistance to corrosion due to the handhold components being in Stainless Steel, material 1.4301. 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 uniquely elliptical styling of the grip section (36,2 × 22 mm), which observes the laws of anatomy.
- Demonstrably less force needs to be exerted when taking hold of a rail and actually holding it owing to its oval cross-section.
- Making for optimum transmission of forces is a 45° tilt in cross-section, which in line with the rules of ergonomics allows the hardware to be taken hold of in such a way that a triangle is formed between hand, shoulder and the body's vertical axis.
- The coherent end-to-end design concept underpinning ErgoSystem® E300 delivers conspicuous quality right through to the attendant accessories.
- All components may be optionally supplied with an AIC Anti-Infection Coating.

System benefits

ErgoSystem® E300's modular make-up, variable product configurations and wealth of retrofittable accessory and complementary components make for flexible responses to changing conditions during planning and use:

- ErgoSystem® E300 grab rails can be supplied with non-standard dimensions to order 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 rail system with a singleminded target-group focus that exceeds general market requirements as regards planning, fitments and use owing to its demonstrable ergonomic and design merits.
- Custom colours possible to order, see page 100
- Anti-ligature variants of applicable accessory elements can be supplied
- Flexible mounting where required of A-Flex-type components, see page 44

Planning benefits

- The matching range of accessories likewise guarantees harmonious formal integration of the system into architectural schemes.
- With its sleek looks and a Brushed Matt Stainless Steel finish that discreetly echoes the colours around, ErgoSystem® E300 unobtrusively blends in with bespoke bathroom environments.
- Its premium design quality mirrors 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 of comfort as well as assisting them in everyday sequences of movements.
- The ErgoSystem's modularity and versatility make for flexible responses to changing conditions during planning and use.
- Its standard fitments and complementary products permit variation in the way spaces are fitted out in, for instance, private wards.
- FSB's proximity to the market and status as a producer in Germany allow it deliver bespoke solutions and innovations promptly and flexibly.







Ergonomic, good-looking, attractively priced, in Aluminium

Whereas ErgoSystem® E300 is often preferred for exclusive fit-outs of, for instance private wards or hotels, ErgoSystem® A100 likewise brings FSB quality to budget-sensitive ventures.

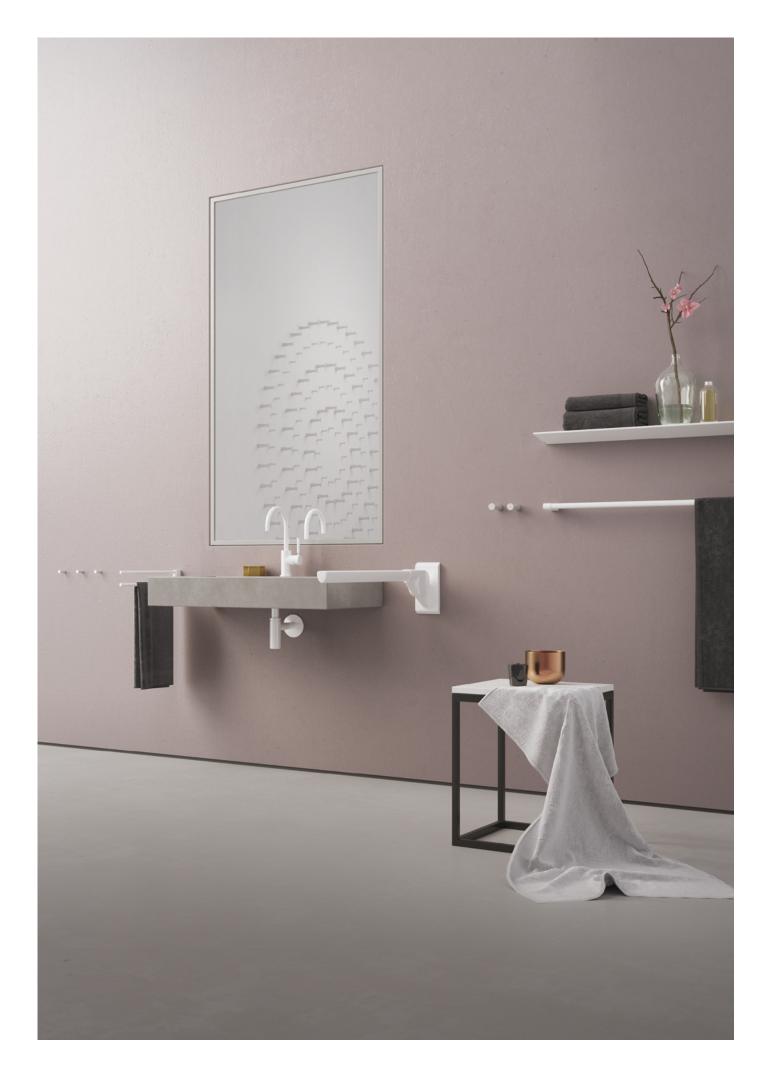
The ErgoSystem® A100 ("A" for Aluminium) brings added gripping space to the basic, unique-to-the-market idea familiar from the ErgoSystem® E300 ("E" stands for Stainless Steel in German) of diagonally aligning an oval gripping cross-section: brackets at an angle of 45° to the wall open up the gripping space afforded to the hand and are particularly conducive to side-on gripping. Wall, bracket and rail fulfil the static principle of a triangle that delivers a high degree of ruggedness and stability in both perceived and actual terms.

ErgoSystem® A100, which garnered the "ICONIC Award 2016 best of best", is perfectly geared to virtually any application and location. Randomly configurable sets of handrails with bespoke profiles that can be cut to length on site make for simplified planning and assembly. The rails combine with our multiply awardwinning shower-head holder for singlehanded operation to yield an ideal fitment level for shower areas. Shelf surfaces with and without retention bars are supplied in standard dimensions as well as in customised lengths. The drop-down support rail is particularly flexible owing to its not being handed. Wall rails of variable length, a fixed safety rail, towel holders, wall hooks and toilet-roll holders round off the ErgoSystem® A100.

The ErgoSystem® A100 can be customadapted to specific interiors and settings by dint of its variable colour constellations. The colours of brackets / structural parts and hand/grab rails can be freely combined, thus facilitating sufficient contrast to ensure optimum visibility and readability within a space, something that makes life safer and more convenient for elderly people with poor eyesight in particular (brightness reference value). Safe gripping can optionally be aided by selecting handholds and brackets in different colours. Conversely, those for whom the issue of contrast is less critical – be they young or old — can simply deploy the different colours as an interior-design style tool. ErgoSystem® A100 components can be imaginatively adapted to the colour, finish and sheen of tiling and solutions devised whereby products discreetly merge with their background. Though they can be taken for granted as part of a given spatial configuration, they nevertheless have a strong identity of their own, adding a bespoke touch to any interior.

The ErgoSystem® A100 cuts quite a dash in assembly terms too: simplified design engineering has given rise to fewer parts and these, in turn, are child's play to fit adopting the assembly-shoe concept. Visible parts and those of importance for the assembly process are decoupled from one another, which considerably simplifies fitting them and pre-empts assembly errors.

Grab rails, drop-down support rails and tip-up shower seats are engineered in such a way that they can be detached when not in use and their permanently mounted bearer plates concealed by means of a cover-plate. This allows products to be fitted as and when required.



New finishes: Matt White + Matt Black

FSB has a fine tradition of setting trends in architecture and design as well as servicing them to perfection. The new matt finishes for the ErgoSystem A100 range are stunning proof of the great aesthetic appeal such seemingly "neutral" colours can exert.

Matt finishes are currently all the rage in bathrooms, be it on their fittings, ceramics or furnishings. The authenticity and elegance they exude make both the space and bathtime very special experiences. As of now FSB is augmenting its exclusive interior schemes with the new ErgoSystem® A100 finishes Matt White (FSB 8224) and Matt Black (FSB 8849).

These architecturally matter-of-fact colours are a conscious nod in the direction of the Bauhaus. Their unobtrusiveness lends full rein to the shapes and design details of ErgoSystem® A100 components. The neutrality of our black-and-white colour scheme makes for extensive stylistic latitude and great flexibility of combination with the other fitments in a bathroom. There is, for instance, scope for creating delightful points of focus by combining black bathroom fittings and accessories with white tiles. The matt finish is studiedly restrained within the resultant mix and yet continues to exert a great visual and haptic presence.



approximates to RAL 9005

fsb.de/ergosystem 23

Materials and finishes



We produce ErgoSystem® A100 in eight different colour settings, coatings simultaneously being produced with differing degrees of brightness.

These range from matt (FSB 8224, 8849, 8803 and 8809) to high gloss (FSB 8220). The colour concept involved draws on five coatings that are either supplied in unicolour or can be combined with each other in defined configurations of component colours or else accentuated with the aid of components coated in Aluminium Grey. Handholds, handrails and the surfaces of utensils trays — i. e. components subject to constant loading either by being gripped hold of or having utensils placed on them — are always coated in one of the three unicolours.

Brackets, assembly devices, working parts or, indeed, applications on the showerhead holder that are infrequently handled may

additionally be refined with the accent colour Aluminium Grey Metallic (FSB 8829, Satin Matt) in specified variants. The standard colour combination FSB 8810 comprises, for instance, a handrail in Anemone White (FSB 8220) and brackets in Oyster Grey (FSB 8803). Set out above are illustrative examples of the combined-colour products achievable under the scheme.

Surface quality

In particular, finishes on handholds, handrails and shelves and trays brought about by electrostatic powder coating (EPC) are far more resilient to cleansers, scratching or wear than conventional powders and procedures of a purely decorative persuasion. The powders used at FSB have their origins in facade construction — an area, after all, in which the most exacting demands are traditionally made of surfaces

in the erection of facades or to account for climatic impacts. The matt colour shades additionally boast above-average surface hardness and outstanding mechanical properties and can hence be recommended for barrierfree areas in which particularly high loadings are to be expected.

We can additionally coat any ErgoSystem® A100 product in a wide range of other RAL colours to suit a given project.



Finishes were tested to the following standards and methods:

- Resistance to commercial cleaning agents, corrosion (DIN EN ISO 6988), scratching (DIN EN ISO 1518-1*), abrasion (DIN EN 60068-2-70*)
- Adhesiveness of coating (DIN EN ISO 2409)
- * Testing as laid down in the standard cited

Unicolour coatings

- ① FSB 8220 Anemone White, approximating to RAL 9016
- ② FSB 8224 Matt White, approximating to RAL 9016
- ③ FSB 8803 Oyster Grey, approximating to RAL 7040
- 4 FSB 8809 Anthracite Grey Metallic, approximating to RAL 7016
- (5) FSB 8849 Matt Black, approximating to RAL 9005

Combined coatings

- © FSB 8223: Brackets/holder FSB 8829 Aluminium Grey Metallic Handrail/rail FSB 8220 Anemone White
- TSB 8810: Brackets/holder FSB 8220 Anemone White Handrail/rail FSB 8803 Oyster Grey
- ® FSB 8811: Brackets/holder FSB 8829 Aluminium Grey Metallic Handrail/rail FSB 8809 Anthracite Grey Metallic



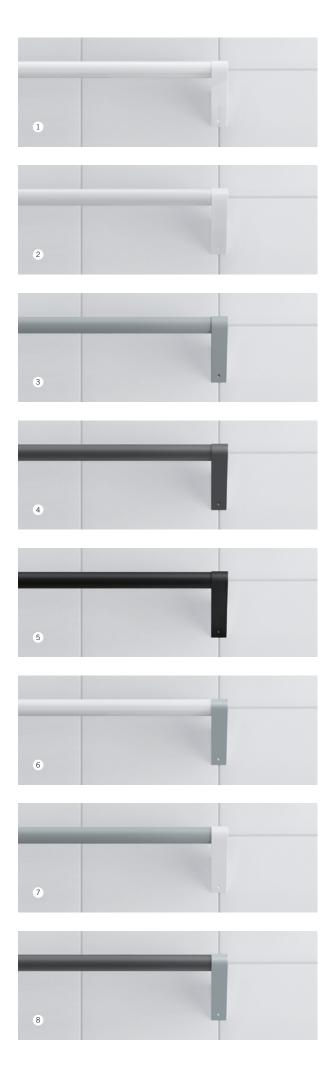
Definable brightness reference values

Fitting the new combined-colour variants most notably makes for a greater play of contrast so as to have account to brightness reference values. Where, for instance, wall tiles in a colour similar to the silvery grey brackets are selected, hand and grab rails can nevertheless be made to clearly stand out in either Anemone White (FSB 8220) or Anthracite Metallic (FSB 8809). This is an utterly new approach that highlights rails and attachment devices. It thus allows the crucial plane of use and convenience to be lent even greater and targeted visual profile for the user — at the same time making day-to-day dealings with Ergo-System® A100 even safer.

An analogous and similarly exciting design principle suggests itself for the white tiles still common, in care facilities in particular, whereby white brackets are combined with Oyster-Grey rails (FSB 8810). It is possible in this way to ergonomically and functionally redefine colour schemes or, indeed, to utterly revitalise them by dint of a pure design idea. Whereas visible contrasts determined by brightness reference values are likely to hold sway in the Public Project sector, our colour concept opens up wholly new horizons for the planners and designers of interiors in the residential and sanitary spheres.

- ① FSB 8220
- ② FSB 8224
- ③ FSB 8803
- 4 FSB 8809
- ⑤ FSB 8849
- ⑥ FSB 8223
- ⑦ FSB 8810
- ® FSB 8811

(Colours set out on page 24)



Features and benefits

System features

- ErgoSystem® A100 by FSB conforms to all sections of DIN standards 18 040-1 and 18 040-2.
- ErgoSystem® A100 is certified to TÜV/ GS (product safety).
- High resistance to corrosion due to powder-coated components being in high-quality Aluminium.
- Finishes were tested to the following standards and methods:
 - Resistance to commercial cleaning agents, corrosion (DIN EN ISO 6988), scratching (DIN EN ISO 1518-1*), abrasion (DIN EN 60068-2-70*)
 - · Adhesiveness of coating (DIN EN ISO 2409)
 - * Testing as laid down in the standard cited
- Hands fit snugly due to the uniquely elliptical styling of the grip section, which observes the laws of anatomy.
- Brackets at an angle of 45° to the wall open up the gripping space afforded to the hand and make gripping particularly pleasant and reliable.
- Demonstrably less force needs to be exerted when taking hold of a rail and actually holding it owing to its oval cross-section.
- The coherent end-to-end design concept underpinning the ErgoSystem® delivers conspicuous quality right through to the attendant accessories.
- Brackets and rail elements in variable colour combinations engender optimum visibility within a space and perfect coordination with their surroundings.
- All components may be optionally supplied with an AIC Anti-Infection Coating.

System benefits

- Premium concept in terms of convenience, function, ergonomics and design.
- Budget-conscious option as investment and with systems running. Its modular make-up additionally allows individual parts to be replaced.

Variable product configurations make for flexible responses to changing conditions during planning and use:

- The grab rails can be supplied with non-standard dimensions 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.
- Gentle radii on all structural parts combine with concealed fixings to meet hygiene requirements.
- Barrier-free rail system with a singleminded target-group focus that exceeds general market requirements as regards planning, fitments and use owing to its demonstrable ergonomic and design merits.
- Custom dimensions as a means, for instance, of exactly aligning fittings with the joint grid or borehole layout available to order.
- Ease of assembly due to an assembly shoe concept with built-in lateral tolerance compensation of ± 2 mm.
- Drop-down support rails with pushbuttons and no visible wiring this is run inside the rail and straight into the falsewall installation via the baseplate.

Planning benefits

- ErgoSystem® A100 can be custommatched to interiors and surroundings by dint of variable colour constellations.
- ErgoSystem® A100 allows targeted consideration to be given to brightness reference values and bespoke design ideas in equal measure.
- This opens up options for sanitary-area and interior designers that can be applied in a very focused manner in both public project and select residential ventures.
- Its premium design quality mirrors 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 of comfort as well as assisting them in everyday sequences of movements.
- The ErgoSystem's modularity and versatility make for flexible responses to changing conditions during planning and use.
- The chromatic concept involved permits variation in the way spaces are fitted out or identified in, for instance, private wards or, indeed, hotels.
- FSB's proximity to the market and status as a producer in Germany allow it deliver bespoke solutions and innovations promptly and flexibly.



31 Door levers for barrier-free homes and for fitting in hospitals 1155

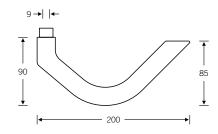
9 79 1155 613 (RH) | 79 1155 614 (LH)

turnably fixed with 9 mm square spindle

The chief merits of 79 1155 are:

- Its triangular styling follows the user's own trajectory.
- Its angular shape echoes the sequence of movements involved in its operation.
- Its chunkiness and sectional characteristics equate to the hollowing of a hand being closed.
- Its horizontal alignment provides the wherewithal for operation with an elbow.





EN 179

fsb.de/791155

1119

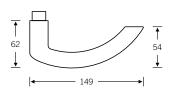
© 12 1119 013

© 72 1119 613 (RH) | 72 1119 614 (LH) 79 1119 613 (RH) | 79 1119 614 (LH)

FSB 1119 incorporates insights gained by FSB in co-operation with the Fraunhofer Institute during scientific analyses on the design of a lever handle for large-leaf doors in hospitals. Whereas the utmost importance was given to the rigorous observance of ergonomic parameters when implementing the Ergo lever handle, considerations of style predominated in the case of FSB 1119. It was conceived by FSB's in-house designer Hartmut Weise, who also authored the ErgoSystem®.

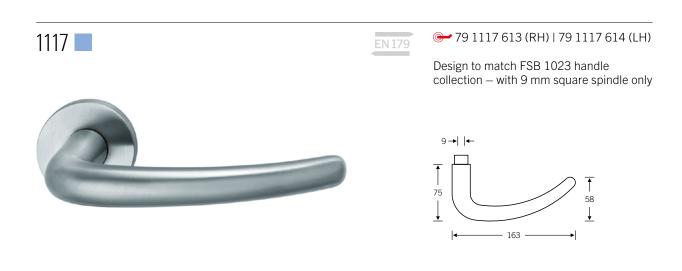


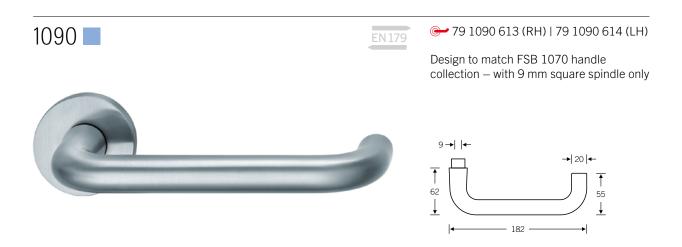




EN 179

fsb.de/791119





fsb.de/791117 fsb.de/791090

Barrier-free hardware



14 424.

Standard version:

- **©** 14 4240 40... (RH, 8 mm square)
- **©** 14 4240 50... (LH, 8 mm square)
- 14 4240 61... (RH, 9 mm square)
- **-** 14 4240 71... (LH, 9 mm square) FS approval to DIN 18273

Renovation version: 14 4241 40... (RH, 8 mm square) 14 4241 50... (LH, 8 mm square)

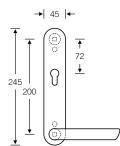
Routing work performed on existing fire and smoke doors in preparation for fitting barrier-free door hardware renders the door's fire-safety status void. Please consult the door maker on whether fire-safety approval obtains when fitting barrier-free hardware to the door concerned or whether there may be scope for exceptional acceptance.

C:c distance 72 mm (WC 78 mm) concealed fixing from both sides, to suit locks conforming to DIN 18251, compliant with DIN 18 040-1 (handle height 850 mm)

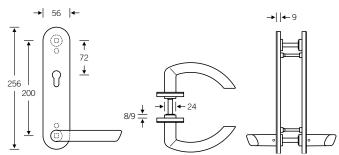
The spindle for the lever handle is connected to the upper spindle serving to operate the lock follower by rodding. When the handle is operated, the rodding turns the upper spindle the lock follower, thus releasing the latch.

With the requirements for barrier freedom in mind, FSB has also given fresh thought to traditional hardware solutions. What distinguishes barrier-free door furniture is that, as well as the door handle being more easily reached by wheelchair users, it is also easier to insert the key due to its being situated – more accessibly and visibly – above the handle. Barrier-free hardware can be fitted to existing doors and locks without the need for any modification work. The renovation backplate (width 55 mm) conceals the boreholes left by old fittings, moreover. Integrated into the hardware beneath the cover plate is a rugged mechanism that allows the lever handle to be positioned beneath the profile cylinder.

Standard version 14 4240



Renovation version 14 4241



Order details required:

- Door thickness
- DIN handing
- 8/9 mm square spindle
- C:c distance
- Lever-handle model

M5 Stainless Steel screws are supplied as a function of door thickness.

Other keyways and c:c distances available to order.

fsb.de/144240 fsb.de/144241

- 37 ErgoSystem® E300
- 41 Drop-down support rails
- 53 Grab rails and handrails
- 63 Seats
- 71 Shower rails
- 81 Accessories

ErgoSystem® E300

Product Chart

Drop-down support rails

Wall-mounted/drop-down support rails Page 42 f.



Drop-down support rails A-Flex Page 44 ff.



Supporting leg Page 51

Backrest

Page 50

Armrest Page 51



Push-button actuators Page 52



Grab rails and handrails

Handrail combinations Page 54 f.



Storage trays Page 57



Grab rail Page 58



Angled rails Page 58 e.f.



Wall-mounted support rails Page 62 f.



Floor/wall-mounted support rail Page 62



Seats

Suspended seats Page 64 f.

Tip-up shower seats Page 66 f.



Shower and bath stool Page 69



Free-standing stool Page 70



Bath seat Page 70



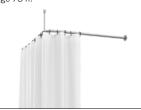
Shower rails

Shower rails Page 73 ff.

Shower attachments Page 77



Shower curtain rails Page 78 ff.



Accessories



Mug holder, soap holder Page 83



Soap dispenser Page 83



Tilting mirror



Wall mirror



Hand towel rails



Hooks Page 90 ff.







Hooks (coloured) Page 91



Toilet-roll holders Page 94 f.



Toilet-brush set



Walking aid holder Page 97



Splash guard holder



Wall-recessed litter bin Page 99



Door stop Page 99



Information signs Page 158 f.



39

41 ErgoSystem® E300 Drop-down support rails

82 8224





A-Flex model for flexible installation in, for instance, hotels or private wards, cf. page 44 f.



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Ø 82 8224 06002 LH 6000 ⊗ 82 8224 07001 RH 7000 Ø 82 8224 07002 LH 7000 © 82 8224 08501 RH 8500			L
© 82 8224 08501 RH 850	Ø 82 8224 06002 Ø 82 8224 07001	LH RH	600 600 700
	© 82 8224 08501 Ø 82 8224 08502 © 82 8224 09001	RH LH RH	850 850 900 900

spring-loaded, ease of action adjustable

Compatible with TECE Gerontomodul or TECEprofil 9.042.016, fastenings (product code 82 8299 09033 0000) should be ordered separately

Custom lengths up to max. 900 mm can be supplied

Tested to 200 kg

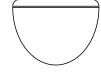
CE label pending

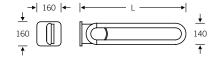
Drop-down support rail
LH

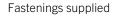
O

O

O







All fittings marked with the symbols \bigcirc 'righthand' and \bigcirc 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

A-Flex



Flexible and modular

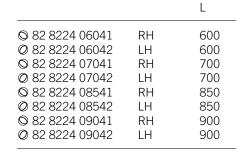
With A-Flex, FSB offers a well-conceived means of flexibly and demand-responsively fitting spaces out with barrier-free components from the ErgoSystem® E300 range.

A-Flex can be particularly recommended for hoteliers or the operators of hospitals with private wards, who can use it to cater to the individual or acutely changing needs of guests and patients. Cases in point are guests in a hotel who do not generally require barrier-free aids in the bathroom but for whom such aids become necessary due to a sudden injury – e. g. at a winter sports resort. The system yields additional benefits in the form of significantly lower costs for the initial fit-out, as the spaces concerned are merely fitted with an A-Flex support plate and use can be made of drop-down support rails and foldaway shower seats as required. The concept was also reason enough for the jury of Germany's Central Sanitary, Heating and Air Conditioning Association to honour A-Flex components with its ZVSHK Award.



A-Flex

82 8224





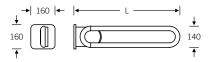
Drop-down support rail A-Flex* spring-loaded, ease of action adjustable

Compatible with TECE Gerontomodul or TECEprofil 9.042.016, fastenings (product code 82 8299 09033 0000) should be ordered separately

Custom lengths up to max. 900 mm can be supplied

Tested to 200 kg

CE label pending



82 8227





82 8227 00002



82 8227 00003

82 8227 00002 (incl. cover plate) 82 8227 00003 (without cover plate)

A-Flex support plate

for use with drop-down support rail 82 8224 0604. | 0704. | 0854. | 0904. or tip-up shower seat 82 8244 00001 and 82 8251 00001

All A-Flex components are fitted with antitheft devices.



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* Bearer plate 82 8227 is not included in the scope of delivery and should be ordered separately.

All fittings marked with the symbols O 'righthand' and O 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

82 8224			L
	© 82 8224 06011	RH	600
	Ø 82 8224 06012	LH	600
	82 8224 07011	RH	700
	Ø 82 8224 07012	LH	700

Drop-down support rail spring-loaded, ease of action adjustable

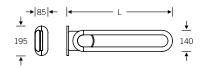
Compatible with TECE Gerontomodul or TECEprofil 9.042.011, fastenings (product code 82 8299 09033 0000) should be ordered separately

Custom lengths up to max. 900 mm can be supplied

Tested to 200 kg

CE label pending





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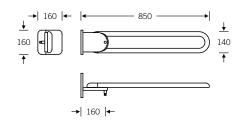
Fastenings supplied

All fittings marked with the symbols \O 'righthand' and \circ 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

with holder for safety belt

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8224		L
	© 82 8224 08531 RF	H 850
	Ø 82 8224 08532 LH	
	© 82 8224 09031 RF	
	Ø 82 8224 09032 LH	900
	Drop-down support rail engineered to receive the on safety belt 82 8290 000	
	For safety belt 82 8290 00 see page 97	0011,
	Compatible with TECE Ger TECEprofil 9.042.016, fast code 82 8299 09033 0000 ordered separately	enings (product
	Custom lengths up to max be supplied	. 900 mm can
	Tested to 200 kg	
shown here: RH		



fsb.de/828224

All fittings marked with the symbols \bigcirc 'righthand' and \bigcirc 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

with function buttons

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8224





Drop-down support rail with function buttons

82 8224 08503 (blue/yellow*, 1 of each)

82 8224 08505 (blue*, 1)

82 8224 08507 (yellow*, 1)

82 8224 08509 (red*, 1)

82 8224 08513 (red/white LED*)

LH:

82 8224 08504 (blue/yellow*, 1 of each)

82 8224 08506 (blue*, 1)

82 8224 08508 (yellow*, 1)

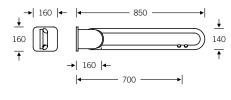
82 8224 08510 (red*, 1)

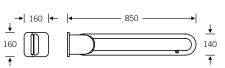
82 8224 08514 (red/white LED*)

Compatible with TECE Gerontomodul or TECEprofil 9.042.016, fastenings (product code 82 8299 09033 0000) should be ordered separately

Length of cable from outlet 1,200 mm

CE label pending





82 8248



82 8248 00003

Surface-mounted cable box for drop-down support rail with function button



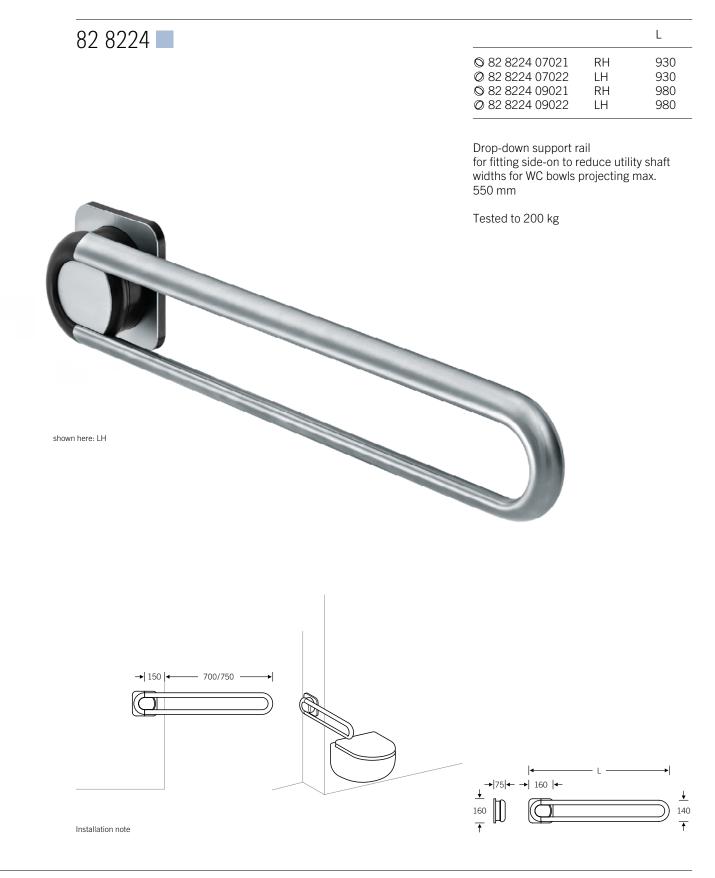


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* blue = closer yellow = closer blue/yellow = closer red = opener function red/white = closer and opener function

All fittings marked with the symbols O 'righthand' and O 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

for fitting side-on



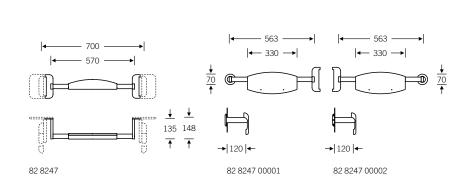
fsb.de/828224

Fastenings supplied

All fittings marked with the symbols \bigcirc 'righthand' and \bigcirc 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

for drop-down support rail

82 8247 PUR 82 8247 00000 (for two drop-down support rails) 82 8247 00001 (solo rose for rail on right) 82 8247 00002 (solo rose for rail on left) Backrest for retrofitting to drop-down support rails, variants with solo rose given spatial restrictions or use with one drop-down support rail only. Custom variant in combination with safety belt 82 8290 00011 available to order. Please advise with order when combining with drop-down support rail 82 8224. Cannot be combined with A-Flex drop-down support rails.



shown here:

1 × Backrest 82 8247 2 × Drop-down support rail

fsb.de/828247

Armrest, toilet-roll holder, supporting leg

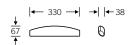
for drop-down support rail

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8246 PUR

Armrest for attachment to support and grab rails







fsb.de/828246 fsb.de/828245 fsb.de/828228

Buttons

for drop-down support rail

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8248 Plastic

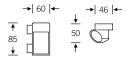


82 8248 00002

Radio-controlled push-button to actuate flushing of the toilet

Compatible with TECE, Geberit, Viega and others

Radio frequency 868.4 MHz



82 8248 Plastic

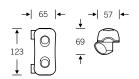


Bracket for push-button for attachment to support and grab rails, supplied without push-button

82 8248 00000 (for Mepa model) 82 8248 00001 (for Grohe model)

Further makes to order

shown here: Mepa Sanicontrol 860



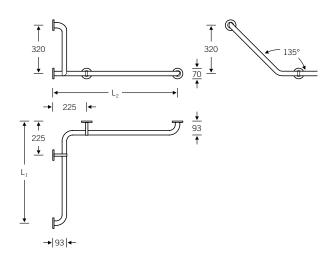
fsb.de/828248

53 ErgoSystem® E300 Grab rails and handrails

Handrail combination

82 8213







fsb.de/828213

		L_1	L_2
82 8213 00101	RH	675	675
82 8213 00102	LH	675	675
82 8213 00201	RH	825	675
82 8213 00202	LH	675	825

Handrail combinations

Suitable for suspended seat 82 8250, see page 64

shown here: LH



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 for fitting to the lefthand wall from this perspective and vice versa.

55

82 8211

shown here: LH

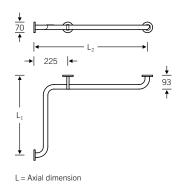


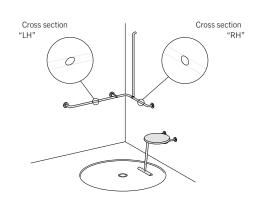
		L_1	L_2
82 8211 00101 82 8211 00102 82 8211 00201 82 8211 00202 82 8211 00301 82 8211 00302	RH LH RH LH RH LH	528 528 528 528 750 750	750 750 975 975 750 750

Handrail combination

Suspended seat in lefthand segment only admissible with floor support (82 8250 00001, cf. page 64)

Tested to 200 kg





82 8212	
	¹ / ₇₀
	

L = Achsmaß

		L_1	L ₂
82 8212 00100 82 8212 00200 82 8212 00301 82 8212 00302	RH LH	750 975 750 1125	750 975 1125 750

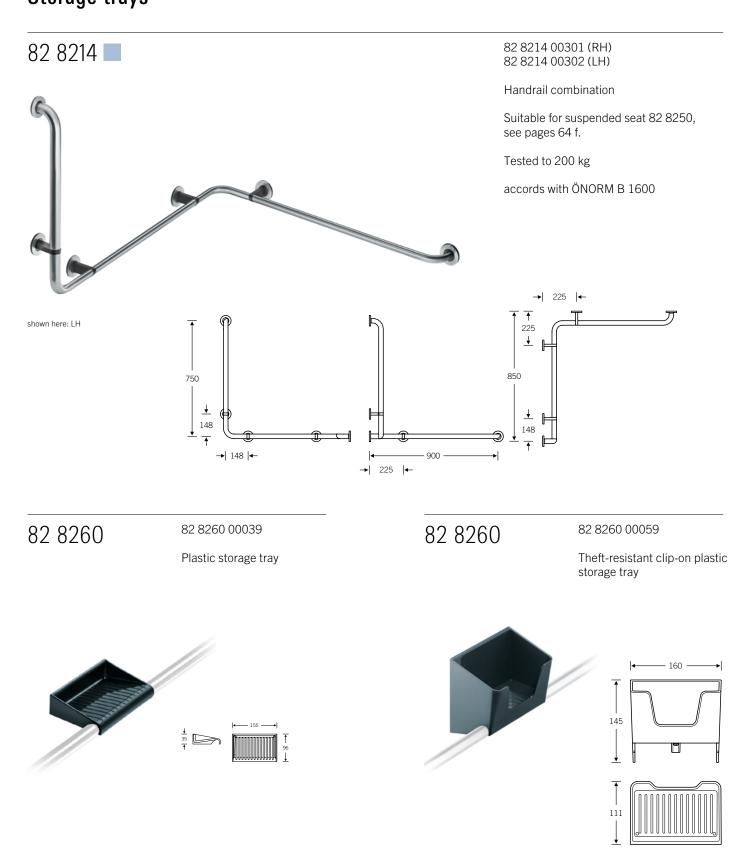
Handrail combination

Suitable for suspended seat 82 8250, see pages 64 f.

Tested to 200 kg

CE label pending

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 for fitting to the lefthand wall from this perspective and vice versa.



fsb.de/828214 fsb.de/828260 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)

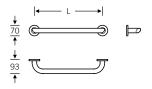
Grab rail

Suitable for suspended seat 82 8250, see page 64 f.

Custom lengths can be supplied to order. An additional bracket is required given lengths > 900 mm to facilitate fitting a hook-over seat.

Tested to 200 kg

CE label pending



82 8202

	L ₁	L ₂	L ₃
82 8202 05120	300	512	210
82 8202 07720	450	772	320

Angled rail

with sides of equal length, can be fitted to point either to the right or left

Tested to 200 kg



	$ \longleftarrow$ $L_2 \longrightarrow $	
<u>†</u>		
<u>L</u> ₃	135°	↓ 70
1	$ \longleftarrow L_1 \longrightarrow $	1
93 1		

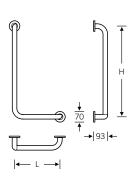
fsb.de/828201 fsb.de/828202 The handing of angled rails and handrail configurations relates to the view into the corner of the space: angled rails indicated as being "lefthand" are for fitting to the lefthand wall from this perspective and vice versa.

0 7	8203	ì
02	02U3	









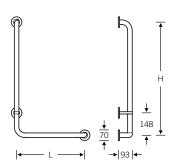
82 8210

		' '	_
82 8210 00201 82 8210 00202 82 8210 00301 82 8210 00302 82 8210 00401*	RH LH RH LH RH	1048 1048 1198 1198 750	450 450 600 600 500
82 8210 00402*	LH	750	500



Angled rail

^{*} accords with ÖNORM B 1600

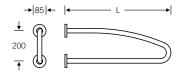


fsb.de/828203 fsb.de/828210 The handing of angled rails and handrail configurations relates to the view into the corner of the space: angled rails indicated as being "lefthand" are for fitting to the lefthand wall from this perspective and vice versa.

82 8220			L
	© 82 8220 06001 Ø 82 8220 06002 © 82 8220 07001 Ø 82 8220 07002	RH LH RH	600 600 700 700

Wall-mounted support rail





fsb.de/828220

All fittings marked with the symbols \bigcirc 'righthand' and \bigcirc 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

Wall-mounted support rails

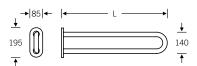
82 8221

82 8221 06000 (L = 600 mm) 82 8221 07000 (L = 700 mm)

Wall-mounted support rail non-handed

CE label pending





82 8222

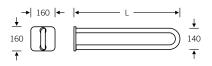
82 8222 07000 (L = 700 mm) 82 8222 08500 (L = 850 mm)

82 8222 09000 (L = 900 mm)

Wall-mounted support rail non-handed

CE label pending



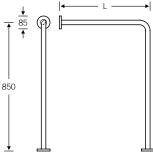


fsb.de/828221 fsb.de/828222 Fastenings supplied

82 8225			L
	© 82 8225 06001	RH	600
	Ø 82 8225 06002	LH	600
	© 82 8225 07001	RH	700
	Ø 82 8225 07002	LH	700

Floor/wall-mounted support rail





fsb.de/828225

All fittings marked with the symbols © 'right-hand' and © 'lefthand' need to be ordered and installed as righthand or lefthand variants respectively. Hands are determined looking towards the washstand/WC: the RH variant is to be fitted to the tight of the washstand/WC and vice versa.

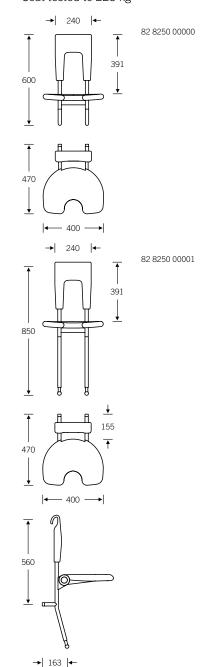
63 ErgoSystem® E300 Seats

82 8250 Seat section PUR

82 8250 00000 (wall-mounted support) 82 8250 00001 (wall/floor-mounted support)

Suspended seat for grab rails (min. length 450 mm), with spring-supported tip-up mechanism and gripping volume towards top of backrest

Seat tested to 225 kg







fsb.de/828250

CE label pending

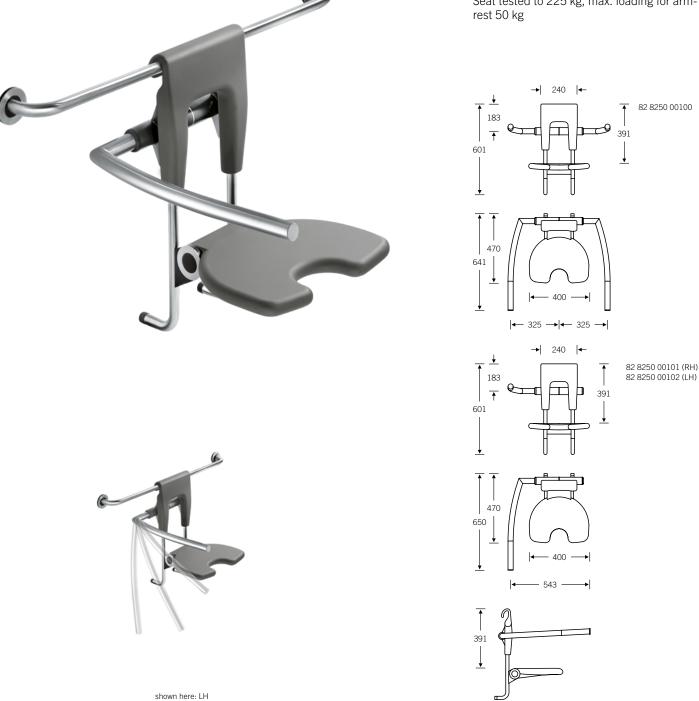
with armrest

82 8250 Seat section PUR

82 8250 00100 (armrests on both sides) 82 8250 00101 (armrest RH) 82 8250 00102 (armrest LH)

Suspended seat wall-supported like 82 8250 00000 but with armrests on one or both sides (shown here with armrest LH)

Seat tested to 225 kg, max. loading for arm-



fsb.de/828250 CE label pending

Tip-up shower seat

with straight-sided seat section

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8251 Seat section PUR

82 8251 00000

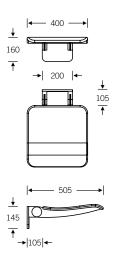
Tip-up shower seat with straight-sided seat section

A-Flex model 82 8251 00001 for flexible installation in, for instance, hotels or private wards, cf. page 68

Seat tested to 225 kg







fsb.de/828251

CE label pending

Tip-up shower seat

with rotating seat section

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8244 Seat section PUR

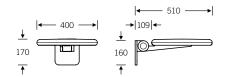
82 8244 00000

Tip-up shower seat with rotating seat section

A-Flex model 82 8244 00001 for flexible installation in, for instance, hotels or private wards, cf. page 68

Seat tested to 225 kg





fsb.de/828244

CE label pending

Tip-up shower seats

A-Flex

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8251 Seat section PUR

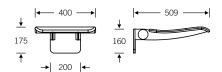


82 8251 00001

A-Flex tip-up shower seat with straight-sided seat section

Bearer plate 82 8227 (cf. page 45) is not included in the scope of delivery and should be ordered separately.

Seat tested to 225 kg



82 8244 Seat section PUR



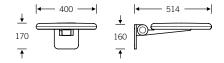
82 8244 00001

A-Flex tip-up shower seat with rotating seat section

with ball bearings and roller brake

Bearer plate 82 8227 (cf. page 45) is not included in the scope of delivery and should be ordered separately.

Seat tested to 225 kg



fsb.de/828251 fsb.de/828244 with rotating seat

82 8241 Seat section PUR

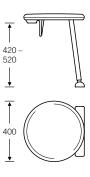
82 8241 00000 (without retention stirrup) 82 8241 01000 (with retention stirrup)

Shower and bath stool with rotating seat

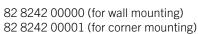
Stool secured to retention stirrup by means of a groove on the underside of the seat

Seat tested to 225 kg

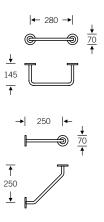




82 8242



Retention stirrup for shower and bath stool



fsb.de/828241 fsb.de/828242







82 8243 Seat section PUR

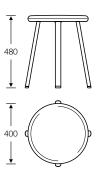


Free-standing stool with rotating seat

The free-standing stool has a rotating seat and provides a high degree of comfort in bathrooms and changing areas.

Seat tested to 225 kg

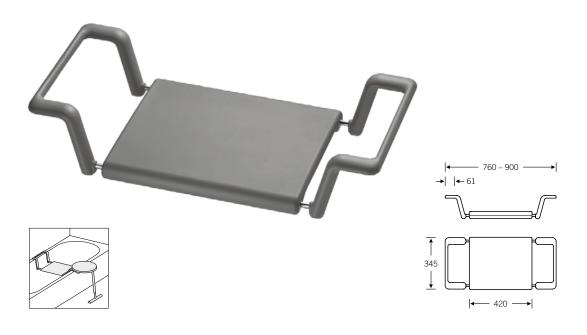
CE label pending



82 8240 Seat section PUR

Bath seat

Seat tested to 225 kg



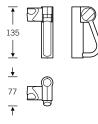
fsb.de/828243 fsb.de/828240 CE label pending

71 ErgoSystem® E300 Shower rails



The shower-head holder makes for convenient showering: it combines an ergonomically fashioned stirrup 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 effortlessly adjusted with one hand — leaving the other free at all times and giving the user the opportunity to, for instance, hold on to a grab rail.







with shower attachment

82 8260

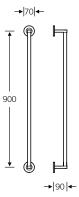


82 8260 00076 (L = 900 mm, max. loading 60 kg, as per DIN 18 040)

Shower rail with shower-head holder for wall mounting, includes shower attachment and hose (1,600 mm)

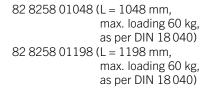
Differing lengths can be supplied either to take account of the tiling grid, to use/conceal existing boreholes or as specifically desired by the customer. Please send us a dimensioned sketch for this purpose.

For optional shower attachment with 2,000 mm hose, please order products individually.



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Shower rail

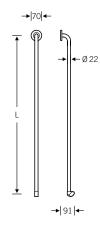
with shower-head holder for attachment to grab rails and handrail combinations, includes shower attachment and hose (1,600 mm)

Differing lengths can be supplied either to take account of the tiling grid, to use/ conceal existing boreholes or as specifically desired by the customer. Please send us a dimensioned sketch for this purpose.



The rail is fixed in position using the double-sided adhesive strip supplied, which is inserted between the plastic connector and the oval tube during assembly. For matching grab rails and handrail combinations (not included in the scope of delivery), cf. page 54 ff.

For optional shower attachment with 2,000 mm hose, please order products individually.



fsb.de/828258

82 8239 01048 (L = 1048 mm, 82 8239 | 82 8260 max. loading 60 kg, as per DIN 18 040) 82 8239 01198 (L = 1198 mm, max. loading 60 kg, as per DIN 18 040) $82\,8239\,11048$ (L = $1048\,\text{mm}$, can also be used as a grab rail, max. loading 100 kg) 82 8239 11198 (L = 1198 mm, can also be used as a grab rail, max. loading 100 kg) Shower rail with shower-head holder for attachment to grab rails and handrail combinations 82 8260 00050 (L = 900 mm, max. loading 60 kg, as per DIN 18 040) $82\,8260\,00072$ (L = $900\,\text{mm}$, can also be used as a grab rail, max. loading 100 kg) Shower rail with shower-head holder for wall mounting **→**|70|**← →**|70|**←** 900 **→**|91|**← →**|90|**←** 82 8239 82 8260 00050 | 82 8260 00072

fsb.de/828239 fsb.de/828260

anti-ligature







fsb.de/828259 fsb.de/828260



82 8290 00054

Shower attachment with triple jet setting, viz. Relaxing, Refreshing, EcoFlow, G 1/2 hose connection, flow rate 14 l/min measured at a pressure of 3 bar

82 8290



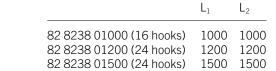
82 8290 00055 (low-aerosol) 82 8290 00056 (low-aerosol, disinfectable)

Shower attachment low-aerosol, with ergonomically shaped, rotatable handle for flexible handling, thermal disinfection, soft laminar jet, flow rate 12 l/min measured at a pressure of 3 bar

82 8290

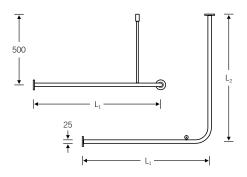
82 8290 00057 (L = 1600 mm) 82 8290 00058 (L = 2000 mm)

Shower hose



Angled shower curtain rail with hooks (ceiling connector and rail can be shortened on site, though warranty claims then become void)

Please note: two curtains are required for angled shower curtain rails



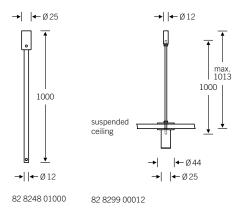
82 8248 | 82 8299

82 8248 01000

Single ceiling connector for shower curtain rail, 1000 mm (can be shortened on site)

82 8299 0012

Ceiling connector for suspended ceilings (can be shortened on site)



fsb.de/828238 fsb.de/828248 fsb.de/828299





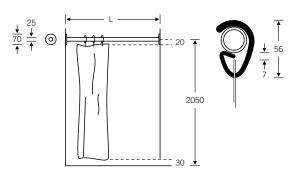
The curtain hooks do not catch on the ceiling attachment even under single-handed operation. Curtain rails of "U" shape or with radii to order.

82 8234 00900 (L = 900 mm, 8 hooks) 82 8234 01200 (L = 1200 mm, 16 hooks) 82 8234 01500 (L = 1500 mm, 16 hooks) 82 8234 01800 (L = 1800 mm, 16 hooks)

Shower curtain rail with curtain hooks for alcoves (can be shortened on one side on site)



The distance between rail centre and curtain is 20 mm and that between the bottom of the curtain and the floor ought to be 30 mm, cf. example shown.



82 8237 Textile		
	В	Н
82 8237 11200 82 8237 11800 82 8237 12400	1200 1800 2400	2000 2000 2000

Shower curtain white, washable at 60°

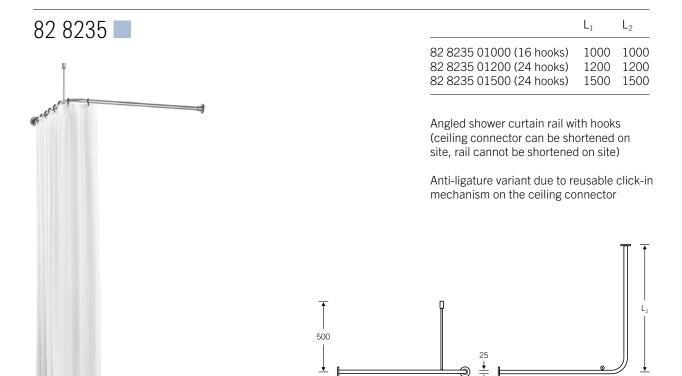
fsb.de/828234 fsb.de/828237 Shower curtain rails available to order with custom dimensions and curtains in inflammable material.

The on-site shortening of, for instance, curtain rails renders all warranty claims null and void.

Shower curtain rails

anti-ligature

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue



82 8233

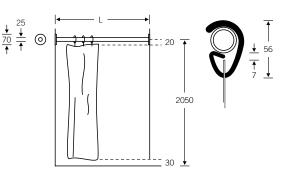


82 8233 00900 (L = 900 mm, 8 hooks) 82 8233 01200 (L = 1200 mm, 16 hooks) 82 8233 01500 (L = 1500 mm, 16 hooks) 82 8233 01800 (L = 1800 mm, 16 hooks)

Shower curtain rail with curtain hooks for alcoves

Anti-ligature variant due to reusable click-in mechanism on the ceiling connector (rail cannot be shortened on site)

The distance between rail centre and curtain is 20 mm and that between the bottom of the curtain and the floor ought to be 30 mm, cf. example shown.



fsb.de/828235 fsb.de/828233





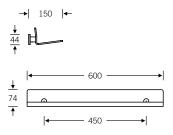
A dedicated click-in mechanism is designed to fail when subjected to loads of approx. 25 kg upwards. It can be reinstalled.

81 ErgoSystem® E300 Accessories

82 8260 00015

Utensils tray sloping slightly downwards towards the wall and with textured plastic surface to help hold items in place





fsb.de/828260

FSB's METRIC® line of accessories is to be found on page 143 ff.

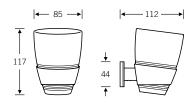
Mug holder, soap holder Soap dispenser

82 8260

82 8260 00041

Mug holder with plastic mug



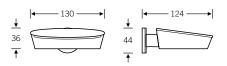


82 8260

82 8260 00040

Soap holder with plastic soap dish





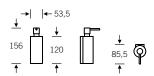
82 8260

82 8260 00075

Soap dispenser

Contents 145 ml





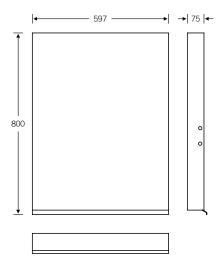
fsb.de/828260

FSB's METRIC® line of accessories is to be found on page 143 ff.



82 8260 00053

Tilting mirror with angle of tilt adjustable from 0° to 12°, variable ease of action using operating bar with optimised luminance contrast









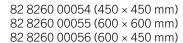


fsb.de/828260

82 8260 82 8260 00051 Wall mirror Glass thickness 6 mm, with 4 mirror holders - 600 -**→**| **|←** 44 **→||**←6 1000 82 8260 82 8260 00052 Mirror holders (4 in number) for glass 6 mm thick



→ | | ← 44

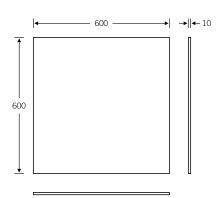


Wall mirror in Polished Stainless Steel incl. bearer plate

Vandal-proof and anti-ligature due to nonglass mirror surface

Thickness of metal plate 1.5 mm





5223 0001 6015 (concealed fixing) 5223 0010 6015 (visible fixing)

Mirror without bearer plate

Please quote dimensions required when ordering. Custom designs can be supplied.

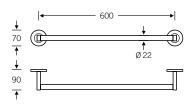
Sheet thickness 1.5 mm

fsb.de/828260

82 8260 00011

Bath towel rail



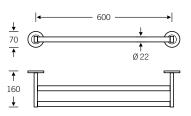


82 8260

82 8260 00021

Double bath towel rail





fsb.de/828260

FSB's METRIC® line of accessories is to be found on page 143 ff.



82 8260 00010

Hand towel rail double swivel-action



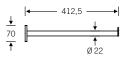


82 8260

82 8260 00012

Hand towel rail fixed





fsb.de/828260

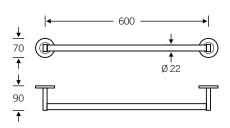
82 8260 00073 (L = 400 mm) 82 8260 00074 (L = 600 mm)

Hand towel rail

Anti-ligature variant with re-usable magnetic fastening

Magnetic holding power approx. 19-20 kg



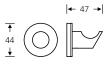


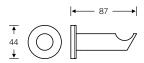
fsb.de/828260

82 8260 00001 Wall hook 82 8260 00002 Coat hook









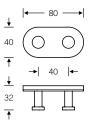
82 8260

82 8260 00005 Wall hook 82 8260 00007 Double wall hook









fsb.de/828260

FSB's METRIC® line of accessories is to be found on page 143 ff.

Wall hooks, coat hooks

coloured

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8260







82 8260 00001 Wall hook

Colour options

RAL 1018 yellow RAL 3002 red RAL 5002 blue



82 8260









82 8260 00005 Wall hook 82 8260 00006 Coat hook 82 8260 00007 Double wall hook

Colour options

RAL 1018 yellow* RAL 3002 red* RAL 5002 blue*

Cupboard identification by means of custom engravings or lasered designs in colours to match wall and coat hooks to order



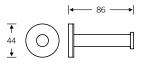
82 8260 00006 (Coat hook)

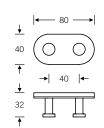














82 8260 00007 (Double wall hook)





fsb.de/828260

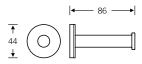
* Standard colours, further RAL colours for an extra charge. Please advise the RAL colour desired when ordering and specifying.

FSB's METRIC® line of accessories is to be found on page 143 ff.

82 8260 00006

Coat hook



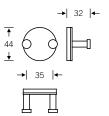


82 8260

82 8260 00004

Double wall hook





fsb.de/828260

Wall hook, folding hook

anti-ligature

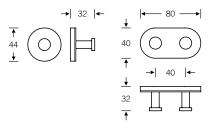
Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8260



82 8260 01005 Wall hook 82 8260 01007 Double wall hook

Anti-ligature variant due to reusable clip-fastening

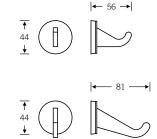


82 8260



82 8260 01008 Short wall hook 82 8260 01009 Long wall hook

Anti-ligature variant due to reusable clip-fastening



82 8260

82 8260 00061* (faceplate non-detachable) 82 8260 00060 (concealed fixing)

Folding hook, anti-ligature



fsb.de/828260

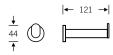
The clip fastening is designed to automatically unclip when subjected to loads of around 10 kg or more. It can be subsequently re-attached.

* Determining the fixing method is the responsibility of the specialist planner or operator in line with the application in hand. Fastenings (screws and plugs) not included.

82 8260 00058

Toilet-roll holder with roll brake



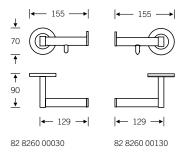


82 8260

82 8260 00030 (RH) 82 8260 00130 (LH)

Toilet-roll holder with roll brake



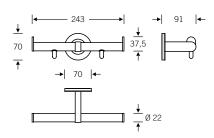


82 8260

82 8260 00070 (for two toilet-rolls)

Toilet-roll holder with roll brake





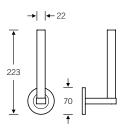
82 8260 00070

fsb.de/828260 FSB's METRIC® line of accessories is to be found on page 143 ff.

82 8260 00032

Spare toilet-roll holder for two toilet-rolls





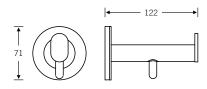
82 8260

82 8260 01058

Toilet-roll holder with roll brake

Anti-ligature variant due to reusable clip-fastening





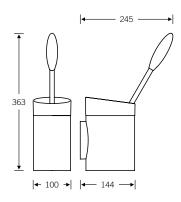
fsb.de/828260

FSB's METRIC® line of accessories is to be found on page 143 ff.

82 8260 00042 82 8260 00071 (without toilet-brush)

Oval toilet-brush set with removable plastic insert, can be cleaned at up to 130 °C, the brush heads are replaceable and can be reordered separately





fsb.de/828260

FSB's METRIC® line of accessories is to be found on page 143 ff.

Walking aid holder Safety belt

82 8260

82 8260 00033

Walking aid holder for universal positioning and use in the home



82 8290

82 8290 00011

Safety belt with which to secure a person

Can be combined with WC drop-down support rail 82 8224 08531/08532, 82 8224 09031/09032 or belt holder 82 8290 00016

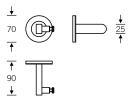


82 8290

82 8290 00016

Holder for safety belt with which to secure a person



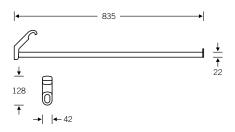


fsb.de/828260 fsb.de/828290



82 8249 00000

Splash guard holder for showers, for hooking over FSB grab rails and handrail combinations



82 8236 Textile



82 8260 10850

Splash guard with attachment loops, for use on FSB drop-down support rails 850 mm in length, cf. page 42 f.

Width = 900 mm | Height = 720 mm

fsb.de/828249 fsb.de/828236

Wall-recessed litter bin Door stop

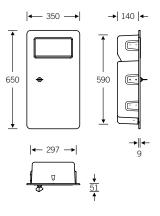


82 8290

82 8290 00048 (RH, lock LH) 82 8290 00049 (LH, lock RH)

Lockable wall-recessed litter bin, RH or LH, 12-litre capacity

shown here: RH



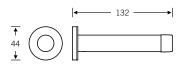
82 8260

82 8260 00003

Door stop

Shorter dimensions available to order





fsb.de/828290 fsb.de/828260

Customised handrails

Dimensions to order bespoke coatings



Standard and bespoke coating

FSB sees itself first and foremost as a makers of door and window hardware made of choice metals — which applies equally to its ErgoSystem® E300.

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® E300 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.

Coated parts have a certain surface hardness and resistance to wear as well as being colour-fast. 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 aids etc.). Scratch marks have no affect, however, on the function of the fittings. Such finishes should never be subjected to abrasive cleansers.

On grounds of product liability, we will not coat ErgoSystem® handle components made in Stainless Steel. Colour coating would take both the aesthetic appearance of ErgoSystem® E300 and the indestructibility of the Stainless Steel surface to absurd levels.







103 ErgoSystem® A100

107 Drop-down support rails

113 Grab rails and handrails

121 Seats

127 Shower rails

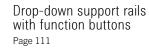
135 Accessories

ErgoSystem® A100

Product Chart

Drop-down support rails

Drop-down support rails Page 108 ff.



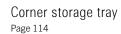






Grab rails and handrails

Handrail combinations
Page 114 f.







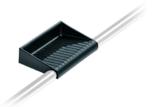
Angled rail Page 116 f.

Grab rails
Page 118

Storage tray
Page 119







Seats



Tip-up shower seat Page 124



Backrest Page 125



Shower rails

Shower rails
Page 128 ff.

Shower attachments
Page 131



Shower curtain rails Page 132 f.



Accessories





Mug holder, soap holder Page 137



Soap dispenser Page 137



Wall mirror Page 138



Hand towel rails
Page 139



Hooks Page 140



Toilet-roll holders Page 141 f.



Toilet-brush set Page 142



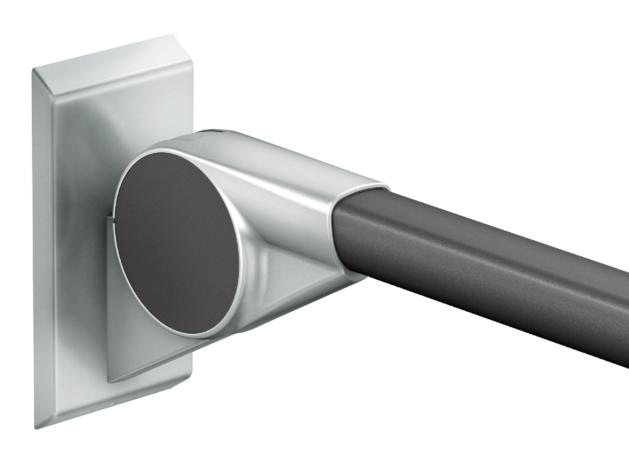
Information signs Page 158 f.

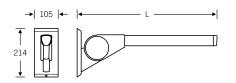


107 ErgoSystem® A100 Drop-down support rails

Drop-down support rail

82 8420





fsb.de/828420 fsb.de/828421

82 8420 00060 (L = 600 mm) 82 8420 00070 (L = 700 mm) 82 8420 00085 (L = 850 mm) 82 8420 00090 (L = 900 mm)

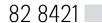
Drop-down support rail with non-directional grip cross-section

Spring-loaded, ease of action adjustable

Custom lengths of up to 900 mm can be supplied to order

Tested to 200 kg

CE label pending

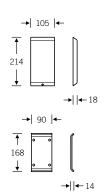


82 8421 00000 (with support plate) 82 8421 00001 (without support plate)

Cover plate for flexible installation in, for instance, hotels or private wards

FSB opens up further scope with well-conceived optional accessories. Spaces can be flexibly and need-responsively fitted out and retrofitted. The support plate is envisaged for scenarios in which drop-down support rails do not need to be fitted from the outset but can be added as and when required.







Drop-down support rail with non-directional grip cross-section and toilet-roll holder

Spring-loaded, ease of action adjustable

CE label pending

Optionally with button(s) with no visible wiring – this is run inside the rail and straight into the false-wall installation via the baseplate

Custom lengths of up to 900 mm can be supplied to order

Tested to 200 kg

82 8420 01060 (L = 600 mm)

82 8420 01070 (L = 700 mm) 82 8420 01085 (L = 850 mm)

82 8420 01090 (L = 900 mm)

Optionally with function button(s)

82 8420 01170 (L = 700 mm, yellow*)

82 8420 01185 (L = 850 mm, yellow*)

82 8420 01190 (L = 900 mm, yellow*)

82 8420 01270 (L = 700 mm, blue*)

82 8420 01285 (L = 850 mm, blue*)

82 8420 01290 (L = 900 mm, blue*)

82 8420 01370 (L = 700 mm, red*)

82 8420 01385 (L = 850 mm, red*)

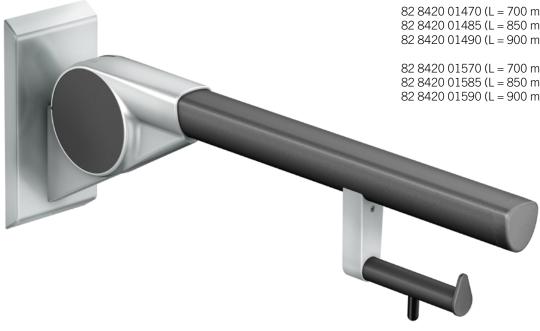
82 8420 01390 (L = 900 mm, red*)

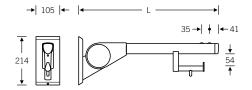
82 8420 01470 (L = 700 mm, blue/yellow*) 82 8420 01485 (L = 850 mm, blue/yellow*)

82 8420 01490 (L = 900 mm, blue/yellow*)

82 8420 01570 (L = 700 mm, LED red/white*) 82 8420 01585 (L = 850 mm, LED red/white*)

82 8420 01590 (L = 900 mm, LED red/white*)





Function buttons available: blue, yellow, red or with built-in LED







fsb.de/828420

* blue = Closer yellow = Closer blue/yellow = Closer red = opener function red/white LED = closer and opener function

Drop-down support rail with non-directional grip cross-section and function button(s)

Spring-loaded, ease of action adjustable

Button with no visible wiring — this is run inside the rail and straight into the falsewall installation via the baseplate

Custom lengths of up to 900 mm can be supplied to order

Tested to 200 kg

CE label pending

82 8420 00170 (L = 700 mm, yellow*)

 $82\ 8420\ 00185\ (L=850\ mm,\ yellow*)$

82 8420 00190 (L = 900 mm, yellow*)

82 8420 00270 (L = 700 mm, blue*)

82 8420 00285 (L = 850 mm, blue*)

82 8420 00290 (L = 900 mm, blue*)

82 8420 00370 (L = 700 mm, red*)

82 8420 00385 (L = 850 mm, red*)

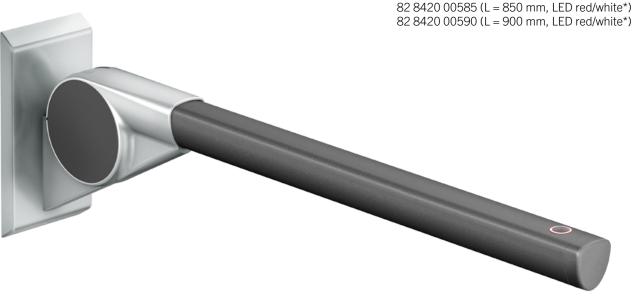
82 8420 00390 (L = 900 mm, red*)

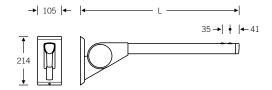
82 8420 00470 (L = 700 mm, blue/yellow*)

82 8420 00485 (L = 850 mm, blue/yellow*)

82 8420 00490 (L = 900 mm, blue/yellow*)

82 8420 00570 (L = 700 mm, LED red/white*)





Function buttons available: blue, yellow, red or with built-in LED





fsb.de/828420

* blue = Closer yellow = Closer blue/yellow = Closer red = opener function red/white LED = closer and opener function

Toilet-roll holder, supporting leg

for drop-down support rail

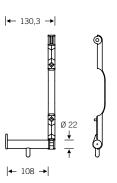
Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8445

82 8445 00002

Toilet-roll holder for attachment to drop-down support rail 82 8420





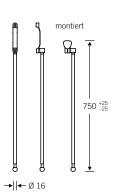
82 8428

82 8428 00001 (RH) 82 8428 00002 (LH)

Supporting leg for attachment to drop-down support rail 82 8420

increases load supportable by approx.





fsb.de/828445 fsb.de/828428

113 ErgoSystem® A100 Grab rails and handrails

Handrail combination

82 8404 | 82 8407 | 82 8408 🗆

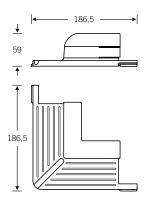


82 8460



82 8460 00013

Corner storage tray





fsb.de/828404 fsb.de/828407 fsb.de/828408 fsb.de/828460

	L ₁	L_2
82 8404 00101 82 8404 00102 82 8404 00201 82 8404 00202	750 mm 750 mm 975 mm 975 mm	750 mm 975 mm 750 mm 975 mm

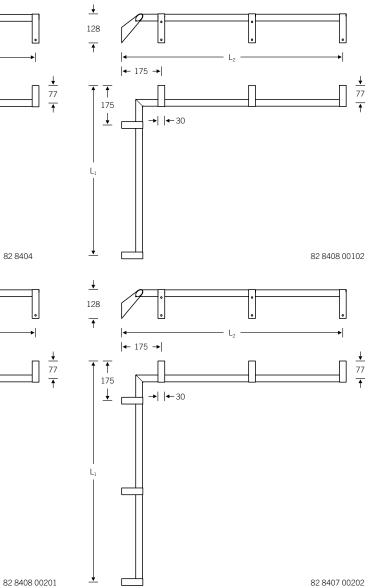
82 8404 Handrail combination with four brackets

CE label pending

	L ₁	L ₂
82 8407 00202	975 mm	975 mm
82 8408 00102	750 mm	975 mm
82 8408 00201	975 mm	750 mm

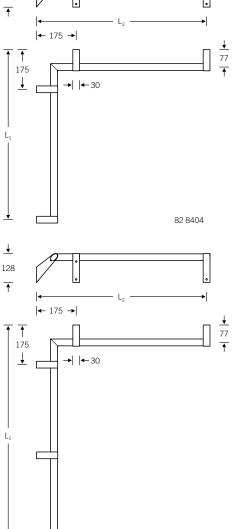
 $82\,8407$ | $82\,8408$ Handrail combination with additional bracket for the use of a suspended seat (L = $975\,$ mm)

Tested to 200 kg





<u>↓</u> 128



82 8402			L ₁	L ₂	L ₃
	82 8402 05120		300	512	210
	82 8402 05121	RH	300	512	212
	82 8402 05122	LH	300	512	212

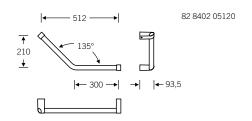
Angled rail

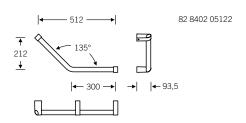
82 8402 05120 Angled rail with sides of equal length, can be fitted to point either to the right or left

 $82\,8402\,05121$ (RH) and 05122 (LH) with sides of equal length, though handed due to the additional third bracket









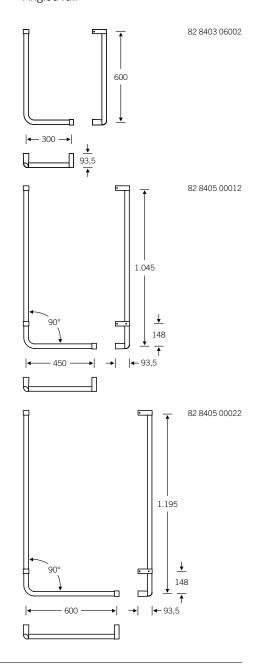
fsb.de/828402

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 for fitting to the lefthand wall from this perspective and vice versa.

		L	Н
82 8403 06001 82 8403 06002 82 8405 00011 82 8405 00012 82 8405 00021 82 8405 00022 82 8405 00031* 82 8405 00032*	RH LH RH LH RH LH LH	300 300 450 450 600 600 500	600 600 1045 1045 1195 1195 750
02 0-03 00032	LII	500	, 50



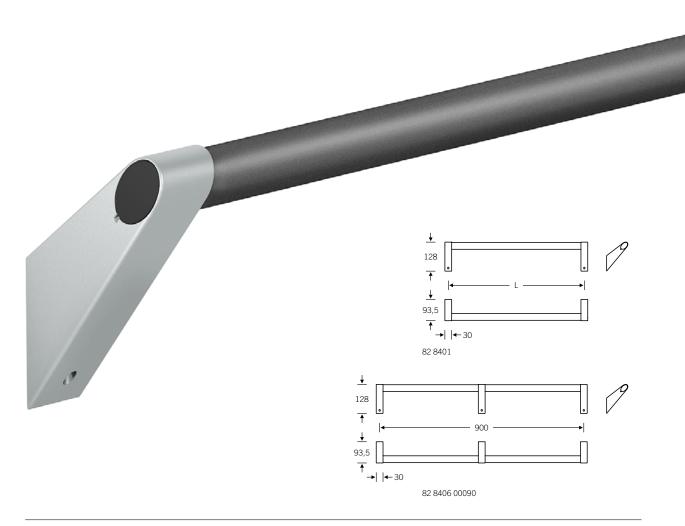
Angled rail



fsb.de/828403 fsb.de/828405 *accords with ÖNORM B 1600

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 for fitting to the lefthand wall from this perspective and vice versa.

82 8401 | 82 8406



82 8421



FSB provides well-conceived further scope with optional accessories. Spaces can be flexibly and need-responsively fitted out and retrofitted. The cover plate is envisaged for scenarios in which grab rails do not need to be fitted from the outset but can be added as and when required.

82 8421 00201 (without suppot plate) 82 8421 00200 (with support plate)

Cover plate for the reversible fitting of grab rails

fsb.de/828401 fsb.de/828406 fsb.de/828421



82 8401 00030 (L = 300 mm)

82 8401 00045 (L = 450 mm) 82 8401 00060 (L = 600 mm)

82 8401 00090 (L = 900 mm)

82 8406 00090 (L = 900 mm)

Grab rail

Grab rail 82 8406 00090 with additional centre bracket foreseen when using a suspended seat over a length of 900 mm

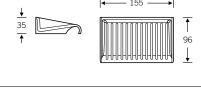
Tested to 200 kg

CE label pending



82 8260 00039

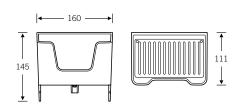
Plastic storage tray





82 8260 00059*

Theft-resistant clip-on plastic storage tray



fsb.de/828260

^{*} Also available in White approximating to RAL 9016, please advise when ordering

121 ErgoSystem® A100 Seats

Suspended seat



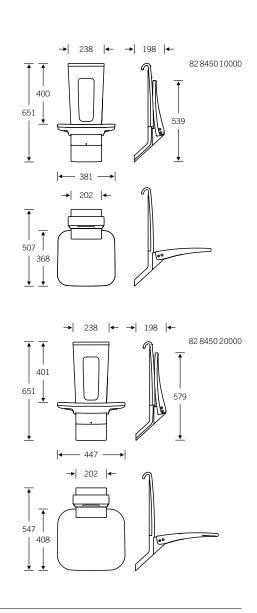
82 8450 10000 (seat section $381 \times 368 \text{ mm}$)

82 8450 20000 (seat section 447 × 408 mm)

Suspended seat for grab rails or handrail combinations (min. length 450 mm), seat section with end-position click-stop mechanism for safe operation and gripping volume towards the top of the backrest

Seat tested to 225 kg

CE label pending



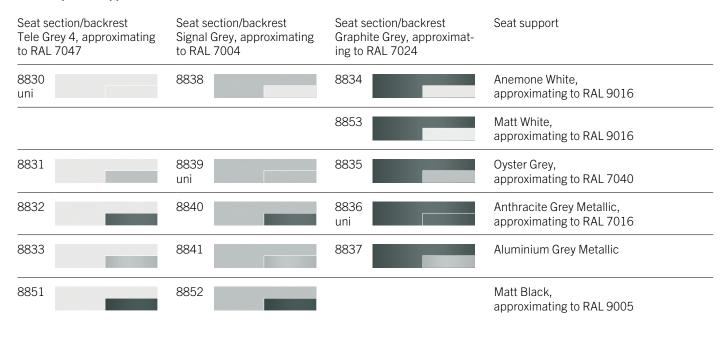


Aluminium parts certified in accordance with the following standards and test methods:

- Resistance to commercial cleaning agents, corrosion (DIN EN ISO 6988), scratching (DIN EN ISO 1518-1*), abrasion (DIN EN 60068-2-70*)
- Adhesiveness of coating (DIN EN ISO 2409)
- * Testing as laid down in the standard cited

shown here: colour code 8837

Colour options suppliable for seats FSB 82 8450 and 8451:



The colour codes for seat section/seat support configurations are as for the tip-up shower seat for wall mounting, cf. page 124

Colours for seat section and backrest not identical to coating colours for Aluminium parts, cf. also colour information on page 24 f.; colours printed may differ for technical reasons.

82 8451 Seat section PUR

82 8451 10000 (seat section 381 × 368 mm) 82 8451 20000 (seat section 447 × 408 mm)

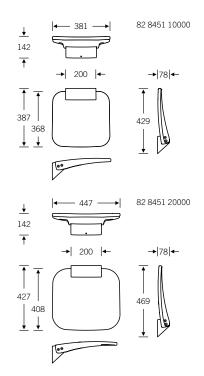
Tip-up shower seat for wall mounting Straight-sided seat section with end-position click-stop mechanism for safe operation

Seat tested to 225 kg

CE label pending







82 8421

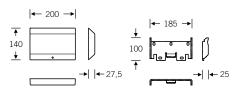


FSB provides well-conceived further scope with optional accessories. Spaces can be flexibly and need-responsively fitted out and retrofitted. The cover plate is envisaged for scenarios in which seats do not need to be fitted from the outset but can be added as and when required.

82 8421 00100 (with support plate) 82 8421 00101 (without support plate)

Cover plate

for flexible installation in, for instance, hotels or private wards

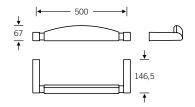


fsb.de/828451 fsb.de/828421

82 8446 01500

Backrest for wall mounting





127 ErgoSystem® A100 Shower rails



The shower-head holder makes for convenient showering: it combines an ergonomically fashioned stirrup handle that is safe and easy to operate without any turning action involved and features a maintenance- free, continuously adjustable height and tilt mechanism.

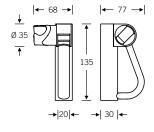
The shower-head holder can be conveniently adjusted with one hand — leaving the other free at all times so the user can support themselves. It can additionally be converted from "lefthand" to "righthand" on site.

from I. to r.:

- FSB 8220 Anemone White, approximating to RAL 9016
- FSB 8224 Matt White, approximating to RAL 9016
- FSB 8803 Oyster Grey, approximating to RAL 7040
- FSB 8809 Anthracite Grey Metallic, approximating to RAL 7016
- FSB 8849 Matt Black, approximating to RAL 9005
- FSB 8223: Brackets/holder FSB 8829 Aluminium Grey Metallic Rail FSB 8220 Anemone White
- FSB 8810:
 Brackets/holder
 FSB 8220 Anemone White
 Rail
 FSB 8803 Oyster Grey
- FSB 8811: Brackets/holder FSB 8829 Aluminium Grey Metallic Rail FSB 8809 Anthracite Grey Metallic

















with shower attachment

82 8458



82 8458 01048 (L = 1048 mm, max. loading 60 kg, as per DIN 18 040) 82 8458 01198 (L = 1198 mm, max. loading 60 kg, as per DIN 18 040)

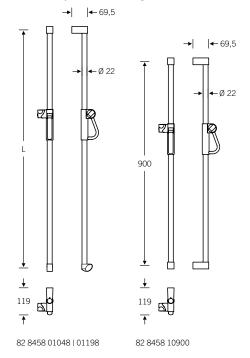
Shower rail with shower-head holder for attachment to grab rails and handrail combinations (not included in the scope of delivery), includes shower attachment and hose (1,600 mm)

82 8458 10900 (L = 900 mm, max. loading 60 kg, as per DIN 18 040)

Shower rail with shower-head holder for wall mounting, includes shower attachment and hose (1,600 mm)



Plastic shackle for handrails RAL 7016 as standard for all colour configurations; please advise shackle in RAL 9016 (White) separately when ordering.



fsb.de/828458

For optional shower attachment with 2,000 mm hose, please order products individually.





82 8290 00054

Shower attachment with triple jet setting, viz. Relaxing, Refreshing, EcoFlow, G 1/2 hose connection, flow rate 14 l/min measured at a pressure of 3 bar

82 8290



82 8290 00055 (low-aerosol) 82 8290 00056 (low-aerosol, disinfectable)

Shower attachment low-aerosol, with ergonomically shaped, rotatable handle for flexible handling, thermal disinfection, soft laminar jet, flow rate 12 l/min measured at a pressure of 3 bar

82 8290

82 8290 00057 (L = 1600 mm) 82 8290 00058 (L = 2000 mm)

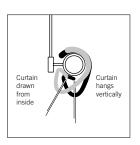
Shower hose



82 8438 01010 (L = 1,000/1,000 mm, 16 hooks for shower curtain included)

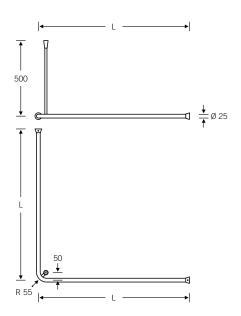
82 8438 01212 (L = 1,200/1,200 mm, 24 hooks for shower curtain included)

Shower curtain rail (can be shortened on site)



The curtain hooks do not catch on the ceiling attachment even under singlehanded operation.





fsb.de/828438

The on-site shortening of, for instance, curtain rails renders all warranty claims null and void.

Shower curtain rail Shower curtain

82 8448

82 8448 01000 Single ceiling connector for shower curtain rail, can be shortened on site

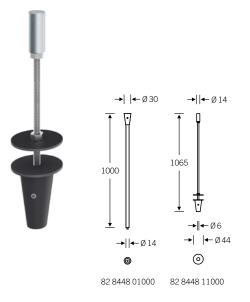
82 8448 11000 Connector for suspended ceilings

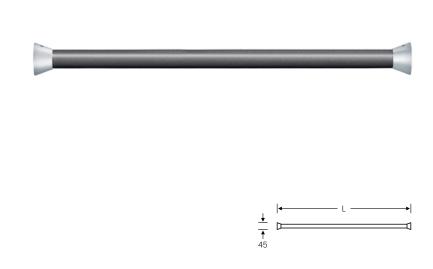
82 8435

82 8435 00900 (L = 900 mm) 82 8435 01200 (L = 1200 mm)

82 8435 01500 (L = 1500 mm) 82 8435 01800 (L = 1800 mm)

Shower curtain rail with curtain hooks for alcoves (can be shortened on one side on site)



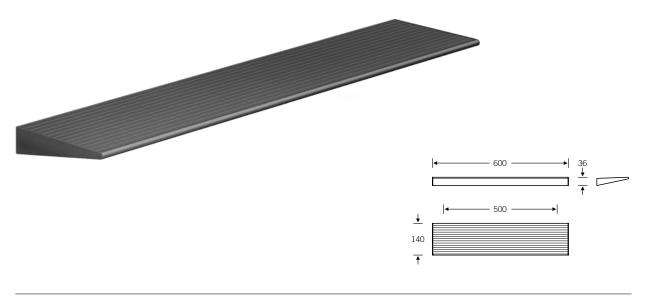




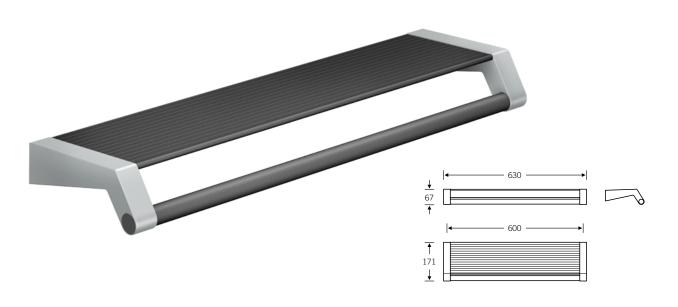
fsb.de/828435 fsb.de/828448 fsb.de/828237 The on-site shortening of, for instance, curtain rails renders all warranty claims null and void.

135 ErgoSystem® A100 Accessories

82 8460 Utensils tray
Custom lengths of up to 1,900 mm can be supplied to order



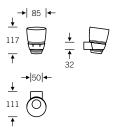
82 8460 Utensils tray with grab/towel rail





Mug holder with plastic mug



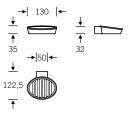


82 8460

82 8460 00012

Soap holder with plastic soap dish





82 8460

82 8460 00022

Soap dispenser

Contents 145 ml



$$\begin{array}{c|cccc}
 & & & \leftarrow 53,5 \\
 & & & & \downarrow \\
 & \downarrow \\$$

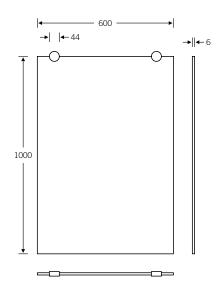


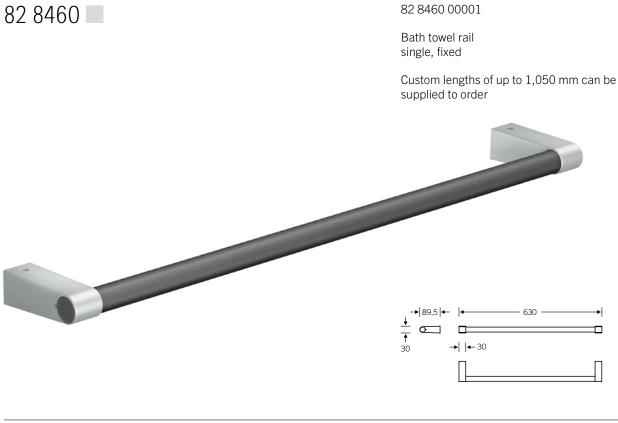
Wall mirror Glass 6 mm thick, with 4 brackets 1,000 × 600 mm

82 8460 00021 (brackets only, 4)

Mirror holder available in all standard finishes

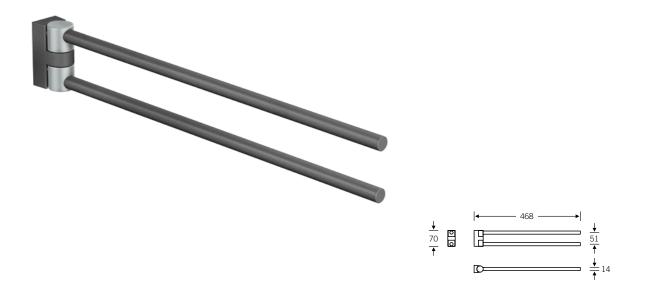






82 8460 00002

Hand towel rail double swivel-action



Wall and coat hooks

Planning data to DIN 18 040 page 164 ff. Specification texts: fsb.de/catalogue

82 8460

82 8460 00003

Wall hook



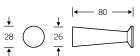
$$\frac{18}{18} \bigcirc \frac{16}{16} \bigcirc 40 \bigcirc 4$$

82 8460

82 8460 00004

Coat hook





82 8460

82 8460 00018

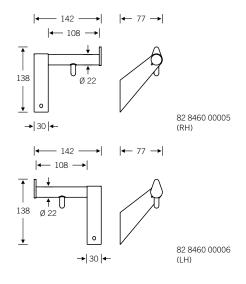
Double wall hook



82 8460 00005 (RH) 82 8460 00006 (LH)

Toilet-roll holder with roll brake

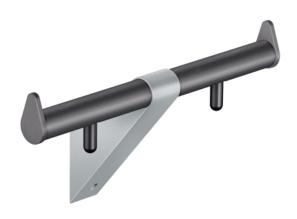


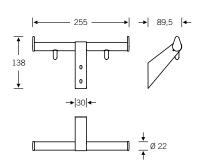


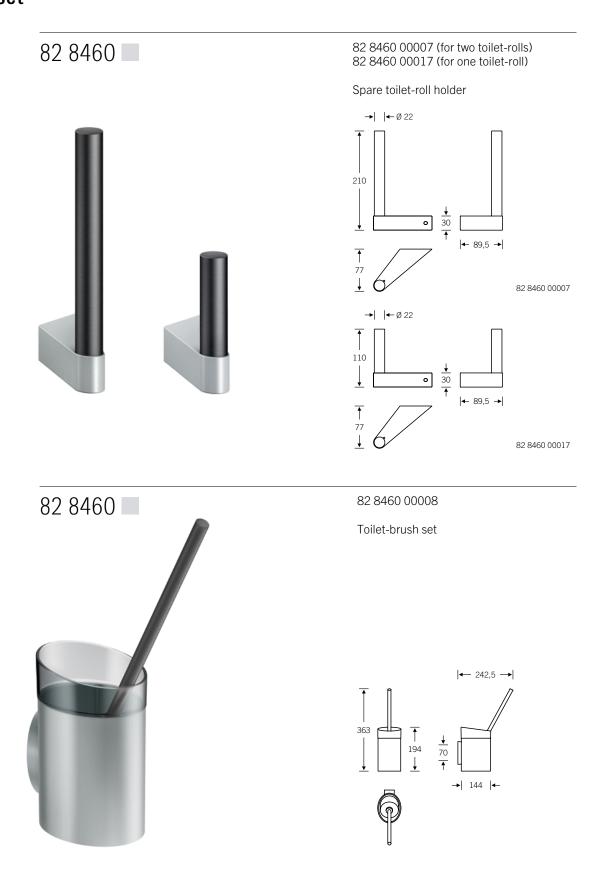
82 8460

82 8460 00020

Toilet-roll holder with roll brake for two toilet-rolls







143 METRIC® Bathroom accessories

METRIC® Product Chart

Shower rail Page 146 f.



Utensils tray Page 149



Hand towel rail



Wall hook, coat hook Page 151





Toilet-roll holders
Page 152



Door stop Page 154



Mug holder, soap holder Page 149





Hand towel rail
Page 150



Spare toilet-roll holder Page 152



Oval toilet-brush set Page 153



Soap dispenser Page 149



Hand towel rail
Page 151



Spare toilet-roll holder Page 152



Round toilet-brush set Page 153



Bathroom accessories

Form follows elegance. Bathrooms have long since ceased to be furnished bearing purely functional factors in mind. The emphasis has shifted far more towards feeling good and pampering all our senses — bathtime has become an oasis of relaxation. Well-designed accessories have a key part to play in this.

Elegantly restrained design, high-quality Stainless Steel and peerless workmanship: METRIC® bathroom accessories are a joy to behold and look right in any setting. At the heart of METRIC® is a design concept based on geometric shapes. The stylistic contrast between round roses and rectangular-section supports is a thematic thread that runs through the entire series and underscores the crisp structuring of the system's constituent parts. Their astutely balanced proportions have a soothing effect and blend in harmoniously with the most diverse of bathroom schemes. METRIC® appeals to more than just the eye, however:

Ergonomic criteria have been taken into account wherever they are an aid to fluent sequences of movements. The holder for the toothbrush glass, for instance, tilts towards the user in a manner that facilitates the act of removing the glass.

We manufacture METRIC® bathroom accessories in either satin matt or polished Stainless Steel. As well as being aesthetically pleasing, Stainless Steel exudes an authenticity that combines particularly well with natural materials such as wood and granite. Moreover, this dependable material has a justifiable reputation for being serviceable, corrosion-resistant, easy to look after and durable. As an alternative to conventional screw fixing, FSB also adopts a high-adhesion bonding technique that nevertheless facilitates residue-free removal. The juries of noted design competitions likewise appreciate the quality and thinking behind METRIC® bathroom accessories and, indeed, behind all FSB products.







Bathroom accessories

82 8270

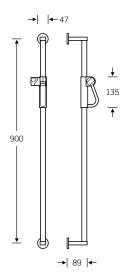
82 8270 00051 (L = 900 mm, max. loading 60 kg, as per DIN 18040) 82 8270 08051 (L = 900 mm, max. loading 60 kg, as per DIN 18040, with adhesive fixing)

Shower rail with shower-head holder for wall mounting, includes shower attachment and hose (1,600 mm)

Differing lengths can be supplied either to take account of the tiling grid, to use/conceal existing boreholes or as specifically desired by the customer. Please send us a dimensioned sketch for this purpose.

For optional shower attachment with 2,000mm hose, please order products individually.

The shower-head holder makes for convenient showering: it combines an ergonomically fashioned stirrup handle thatis 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 effortlessly adjusted with one hand — leaving the other free at all times and giving the user the opportunity to, for instance, hold on to a grab rail.







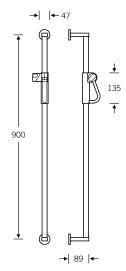
Bathroom accessories

82 8270

82 8270 00050 (L = 900 mm, max. loading 60 kg, as per DIN 18040) 82 8270 08050 (L = 900 mm, max. loading 60 kg, as per DIN 18040, with adhesive fixing)

Shower rail with shower-head holder for wall mounting

Differing lengths can be supplied either to take account of the tiling grid, to use/conceal existing boreholes or as specifically desired by the customer. Please send us a dimensioned sketch for this purpose.



fsb.de/828270

82 8290



82 8290 00054

Shower attachment with triple jet setting, viz. Relaxing, Refreshing, EcoFlow, G 1/2 hose connection, flow rate 14 l/min measured at a pressure of 3 bar

82 8290



82 8290 00055 (low-aerosol) 82 8290 00056 (low-aerosol, disinfectable)

Shower attachment low-aerosol, with ergonomically shaped, rotatable handle for flexible handling, thermal disinfection, soft laminar jet, flow rate 12 l/min measured at a pressure of 3 bar

82 8290

82 8290 00057 (L = 1600 mm) 82 8290 00058 (L = 2000 mm)

Shower hose

Bathroom accessories



82 8270 00015 Glass with satin finish 82 8270 08015 ditto with adhesive fixing 82 8270 00016 clear glass 82 8270 08016 ditto with adhesive fixing

Utensils tray

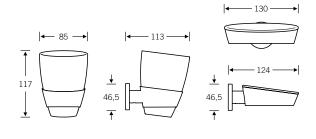


82 8270

82 8270 00041 Mug holder with glass 82 8270 08041 ditto with adhesive fixing 82 8270 00040 Soap holder with plastic soap dish 82 8270 08040 ditto with adhesive fixing

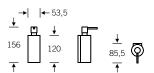






82 8260

 $82\,8260\,00075\,\mathrm{Soap}$ dispenser, contents $145\,\mathrm{ml}$



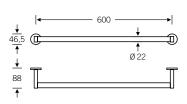
fsb.de/828270 fsb.de/828260

Bathroom accessories

82 8270

82 8270 00011 Single bath towel rail 82 8270 08011 ditto with adhesive fixing

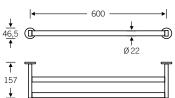




82 8270

82 8270 00021 Double bath towel rail 82 8270 08021 ditto with adhesive fixing

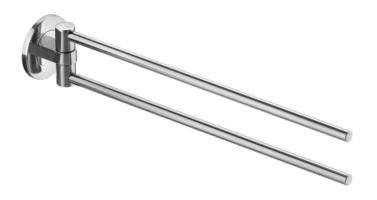




Bathroom accessories

82 8270

82 8270 00010 Double swivel-action hand towel rail 82 8270 08010 ditto with adhesive fixing





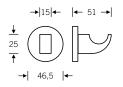
82 8270

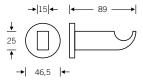
82 8270 00001 Wall hook 82 8270 08001 ditto with adhesive fixing 82 8270 00002 Coat hook

82 8270 08002 ditto with adhesive fixing









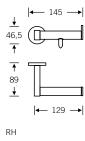
Bathroom accessories

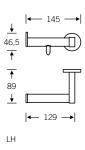
82 8270

82 8270 00030 (RH) | 00130 (LH) Toilet-roll holder with roll brake

82 8270 08030 (RH) | 08130 (LH) ditto with adhesive fixing





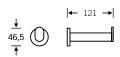


82 8270

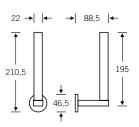
82 8270 00031 Spare toilet-roll holder for one toilet-roll 82 8270 08031 ditto with adhesive fixing 82 8270

82 8270 00032 Spare toilet-roll holder for two toilet-rolls 82 8270 08032 ditto with adhesive fixing









Bathroom accessories

82 8270

82 8270 00043 Toilet-brush set, round 82 8270 08043 ditto with adhesive fixing

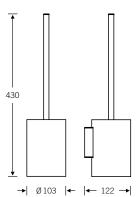
Toilet-brush set, round with removable plastic insert*

82 8270

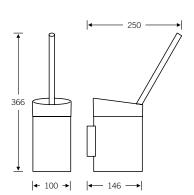
82 8270 00042 Toilet-brush set, oval 82 8270 08042 ditto with adhesive fixing

Toilet-brush set, oval with removable plastic insert*









fsb.de/828270

^{*} The removable plastic insert in our toiletbrush sets can be cleaned at up to 130 °C. The brush heads are replaceable and can be reordered separately.

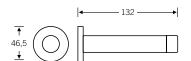
Bathroom accessories

82 8270

82 8270 00003 Door stop 82 8270 08003 ditto with adhesive fixing

Custom lengths to order





METRIC® bonding technique













Easy, fast, safe

Are you decidedly averse to drilling holes in sanitary spaces and bathrooms? That's something we can readily appreciate ourselves. The new METRIC® bonding technique is just the job for anyone wishing to fit METRIC® accessories well without damaging their tiles.

It is an ideal means of fastening for high-quality host surfaces such as tiles, natural stone, glass or plastic: highly adhesive, fast, clean and, above all, facilitating residue-free removal.

The combination of an extremely high-performing bonding agent with a patented adaptor allows METRIC® accessories to be fitted in a jiffy – without any noise or dirt and without damage to cables or precious surfaces. Items fastened durably withstand heavy loading and can nevertheless be removed without trace.

The bonding agent is a highly adhesive glue, of the sort used in the construction of aircraft and other vehicles, that forms a 2-part unit with the adaptor. It is filled into the adaptor once the latter has been positioned on the wall and unites it securely with the host surface. The adaptor doubles up as the mount for the METRIC® accessory, which then merely has to be slotted over and fastened. Items affixed using the METRIC® bonding technique can be subjected to loadings of up to 100 kg.

And should you change your mind, the METRIC® accessory can be detached just as easily without leaving a trace — and fitted somewhere else. Then you simply need a new adaptor. Should you wish to remove the METRIC® accessory, simply reverse the above process until just the adaptor is left in position. Use pliers to carefully detach this from the wall and remove any adhesive residues with a glass scraper or silicon remover.

Here's how to proceed:

- 1. Clean the host surface well with a clean dry cloth.
- 2. Remove the protective film from the adhesive ring on the back of the adaptor.
- 3. Press the adaptor firmly into position at the point envisaged.
- 4. Fill the bonding agent into the aperture provided until it can be seen emerging from the second aperture.
- 5. Allow the special glue to harden for at least 12 hours and then fit the cover plate.
- 6. Slot on the METRIC® accessory and fasten it with an Allen key. Done!

158 Information signs

160 Assembly and fixing methods

168 Index

170 Product Code index

171 Digital catalogue

172 Reference projects

Information signs

36 4059

Design: Otl Aicher

Shown on this double-page spread are just a few of our comprehensive range of pictograms. You will find a complete run-down at www.fsb.de/pictograms.

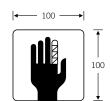
The system covers the areas set out alongside:

- Information signs
- Special-function spaces
- Communication
- Service provision
- Safety
- Health
- Culture ad leisure pursuits
- Shopping
- Transportation and traffic
- Sport



Illustrative design, customised pictograms available to order





36 4059

00002 Arrow up

00005 Arrow down to left

00003 Arrow left

00004 Arrow right

00012 Lift

00014 Stairs up

00017 Emergency exit

00030 No smoking

00100 Ladies' toilets

00101 Men's toilets 00103 Disabled persons

00106 Shower

00111 Soap (optoelectronic)

00120 Quiet room

00121 Waiting room

00122 Observation deck

00041 Silence please 00042 Remove shoes

00151 Sauna

00152 Solarium

00330 Information

00154 Prayer room 00633 Reading room

00634 Lounge















































A pictogram's quality resides primarily in its simplicity and the exhaustiveness of the system underpinning it. Our pictograms have no truck with fads and trends, being couched instead in a visual idiom that is clear and conclusive.

The system was originally developed by Otl Aicher for the Munich Olympic Games and as signage for Frankfurt Airport. It has been looked upon as an exemplary solution the world over ever since and is still, forty years on, fully in step with the times. The on-going addition of new pictograms takes account of both technical innovations and the convergence of international markets. A total of over 400 pictograms cover virtually every conceivable application in the public and commercial spheres.

The complete pictogram system by Otl Aicher, from which the commonly used motifs shown here have been selected, can be found in our PDF brochure entitled "Communicating without words: pictograms in public information signs", which is available at fsb.de/downloads.

In addition to the pictograms covered in the aforementioned PDF, FSB is also in a position to develop other pictograms – always conforming to the spirit of Aicher's scheme - to special order. It is additionally possible to print fully customised information signs, pictorial motifs, wordings etc. of any shape or colour onto metal plates capable of being processed at FSB for specific jobs. Please email your enquiries to piktogramme@fsb.de complete with a picture, PDF or vector file or a dimensioned sketch. We will then gladly provide you with an individual quote.

Information signs in braille

Our information signs can now also have braille incorporated. The following variants/ combinations are available:

- Braille only
- Braille + pictogram
- Braille + inscription
- Braille + pictogram + inscription

Here, too, we will be pleased to provide you with an individual quote.

η
1

00142 Airing room

00143 Storeroom

00144 Utility room

00150 Kitchen

00911 Swimming pool

00520 Internal medicine

00528 Massage

00300 Hotel

00301 Reception

00310 Restaurant

00313 Bar

00200 Telephone

00201 Fax

00220 Laptop

00403 Fire extinguisher

00211 Parcels

00212 Postage stamps

00213 Letterbox

00153 Conference room

00332 Bank

00334 Ticket sales

00511 Registration

00605 Lecture hall











































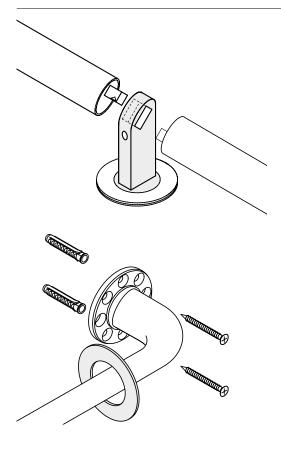


40



ErgoSystem® E300

Assembly and fixing methods



Plug-in assembly

Handrail, corner and end sections are fitted with connector lugs having, on one side, a tapped borehole into which an M6 set screw has been inserted and, on the other, a countersink. Sections are joined together by pushing

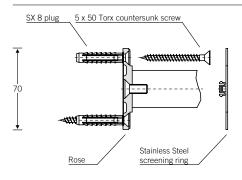
these connector lugs into a snug-fit retention slot on the bracket and securely fastening them with a Size 3 socket key via a borehole on the underside.

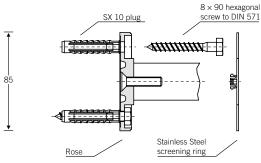
Fixing

The fixing roses for the handrail and grab system have six boreholes, making for very secure screw fixing. Once assembly has been completed, Stainless Steel covering profiles are attached to the fixing roses with the aid of plastic clips to conceal the screw fixing.

Important note

Should your walls necessitate a different form of fixing (light-weight designs, cavity bricks, secondary wall systems etc.), please follow the instructions of the wall-plug or wall-system manufacturers.





Accessories comprising 5×50 Stainless Steel Torx countersunk screws and SX 8 plastic wall plugs are supplied for fixing the handrail and grab system to solid masonry walls. The means of fixing is concealed by clipping on the Stainless Steel screening ring. This type of fixing is

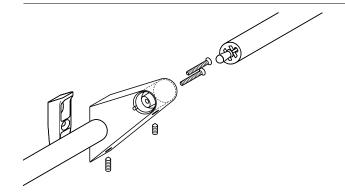
specifically applicable to a rose of 70 mm \emptyset .

Accessories comprising SX 10 plastic plugs and $8 \times 90 \text{ mm}$ Stainless Steel hexagonal screws conforming to DIN 571 are supplied for fixing support rails to solid masonry walls. In the case of grab rails with roses 85 mm in diameter, $8 \times 60 \text{ mm}$ screws are supplied.

The means of fixing is concealed by clipping on the Stainless Steel screening ring.

ErgoSystem® A100

Assembly and fixing methods



Assembly

Handrail sections come with one bracket attached ex works. Modules can be screwed together to form either handrail configurations or grab rails. There is a pin on one side of each section by means of which it is secured to the adja-

cent section at the level of the bracket. This is performed by means of an M5 grub screw passed through a borehole at the bottom of the bracket.



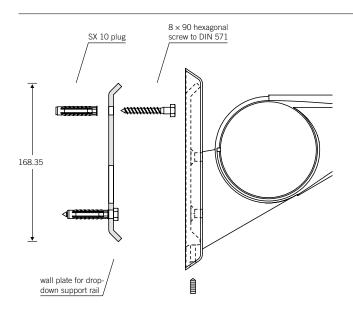
A key component in the fixing of pre-assembled modules is what is known as the "assembly-shoe concept", which compensates for lateral play of up to +/- 2mm. Assembly shoes are applied at the brackets of grab rails and handrail configurations. Used is made of cylindrical pins to fix the utensils tray or wall brackets for the

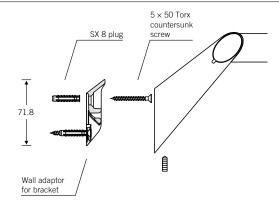
shower rail. Both are concealed once the applicable components have been pressed home and secured with M5 grub screws — a technique FSB has adopted for decades for the fixing of door pulls.

Important note

Should your walls necessitate a different form of fixing (light-weight designs, cavity bricks, secondary wall systems etc.), please follow the instructions

of the wall-plug or wall-system manufacturers.





A fastening set comprising 8×90 mm Stainless Steel hexagonal screws to DIN 571 and SX 10 plastic plugs is supplied for fitting **drop-down support rails** to solid walls (though not to false or dry walls).

A fastening set comprising 5×50 mm Torx countersunk screws in Stainless Steel and SX 8 plastic plugs is supplied for fitting the **hand/grab rail system** to solid walls (though not to false or dry walls).

ErgoSystem® E300 Fixing recommendations

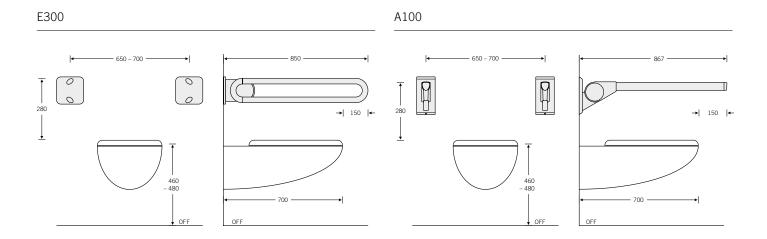
Type of wall	Grab rails and handrail combinations	Support rails and tip-up seat
· Concrete (> B15)	Fischer SX 8 × 40 plug	Fischer 5 × 10 LR × 08 plug
	The screws supplied by FSB with the wall-plug types show	
PlasterboardChipboardHardboard backed with	Spax countersunk screw T (Torx) 5 × 50	Hexagonal screw DIN 571 8 × 90
bonded laminated timber board		Shankless Stainless Steel hexagonal screw, with con- tinuous wood-screw thread to DIN 571
 Solid V2 lightweight concrete block Solid clay brick HLz4 vertical coring brick G2 expanded concrete (pumice stone) Cored sand-lime brick 	Fischer SX 8 × 40 plug	Fischer SX 10 LR × 80 plug
Vertical coring brick Cored sand-lime brick Cavity block		Fischer with screw anchor collar
		FISH 16 × 75 M injection screw anchor collar and FISE 11 × 75 M8 injection internal-thread anchor
Concrete Natural stone Solid sand-lime brick		Fischer without screw anchor collar
 Solid construction materials Solid bricks 		FISE 11 × 75 M8 injection internal thread anchor

ErgoSystem® A100 Fixing recommendations

Type of wall	Grab rails and handrail combinations	Support rails and tip-up seat
· Concrete (> B15)	Fischer SX 8 × 40 plug	Fischer 5 × 10 LR × 08 plug
	The screws supplied by FSB can be used in conjunction with the wall-plug types shown here.	
Plasterboard Chipboard Hardboard backed with	Spax countersunk screw T (Torx) 5 × 50	Hexagonal screw DIN 571 8 × 90
bonded laminated timber board		Shankless Stainless Steel hexagonal screw, with con- tinuous wood-screw thread to DIN 571
Solid V2 lightweight concrete block Solid clay brick HLz4 vertical coring brick G2 expanded concrete (pumice stone) Cored sand-lime brick	Fischer SX 8 × 40 plug	Fischer SX 10 LR × 80 plug
Vertical coring brick Cored sand-lime brick Cavity block		Fischer with screw anchor collar
		FISH 16 × 75 M injection screw anchor collar and FISE 11 × 75 M8 injection internal-thread anchor
Concrete Natural stone Solid sand-lime brick		Fischer without screw anchor collar
 Solid construction materials Solid bricks 		FISE 11 × 75 M8 injection internal thread anchor

ErgoSystem® E300 and A100

Planning information WC area

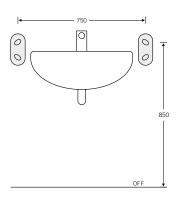


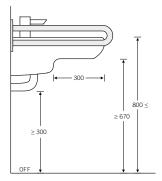
	DIN 18 040/1	DIN 18 040/2 🔥	DIN 18 040/2
Fixing height including seat	460 – 480 mm	460 – 480 mm	as required
WC depth (distance of front edge from wall)	≥ 700 mm	700 mm	550 mm
Mobility area at sides	≥ 900 mm to either side	min. 900 mm on the access side	as required
Negotiable area in front of WC	1,500 mm deep 1,500 mm wide	1,500 mm deep 1,500 mm wide	1,200 mm deep 1,200 mm wide
Distance of WC from side wall	≥ 900 mm	≥ 300 mm	≥ 200 mm
Drop-down rails	280 mm above WC seat height on either side 150 mm above front edge	280 mm above WC seat height on either side	as required
 Distance between rails Integrated flushing mechanism Integrated toilet-roll holder Backrest 	of WC 650–700 mm to left and right to left and right 550 mm behind front edge of WC	650–700 mm to left and right to left and right 550 mm behind front edge of WC	as required as required as required as required
It is necessary when planning bathrooms and WCs in barrier- free buildings to conform to the following standards:	DIN 18 040 Part 1 governs the planning, execution and fitting-out of publicly accessible buildings or parts thereof/outbuildings, i.e. all structural facilities besides purely residential buildings. This standard does not, however, apply to schools, nursery schools and hospitals—the respective Federal State building regulations having effect here instead. Workplaces, by contrast, are covered by the Workplace Directive.	DIN 18040 Part 2 governs the planning, execution and fitting-out of new rented and cooperative accommodation and equivalent residential facilities suitable for wheelchair users.	DIN 18040 Part 2 governs the planning, execution and fitting-out of new rented and cooperative barrier-free accommodation and equivalent residential facilities.

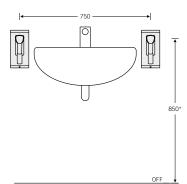
ErgoSystem® E300 and A100

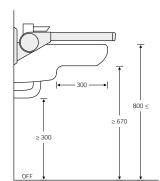
Planning information washstand area

E300 A100







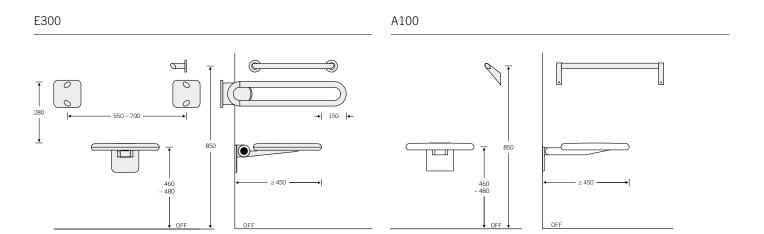


	DIN 18 040/1	DIN 18 040/2 🔥	DIN 18 040/2
Fixing height, top edge of wash- stand	≤ 800 mm	≤ 800 mm	≤ 850 mm
Negotiable area in front of washstand	1,500 mm deep 1,500 mm wide	1,500 mm deep 1,500 mm wide	1,200 mm deep 1,200 mm wide
Room to negotiate beneath	≥ 550 mm	550 mm	550 mm
Depth of leg room	≥ 300 mm	300 mm	300 mm
Seating room beneath	≥ 670 mm vertically	≥ 670 mm vertically	≥ 670 mm vertically
Contactless single-lever fittings with protection against scalding	mandatory	recommended	recommended
One-hand soap dispenser, paper towel dispenser, waste bin / hand dryer	To be positioned near the wash- stand	as required	as required
Flush or recess-mounted stench trap	mandatory	mandatory	mandatory
Mirror viewable in either seated or standing position	A mirror at least 1,000 mm high is to be fitted above the wash-stand	A mirror at least 1,000 mm high is to be fitted above the wash-stand	as required
* Fitting height as for grab rail			

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ErgoSystem® E300 and A100

Planning information shower area



	I		I
	DIN 18 040/1	DIN 18 040/2 🔥	DIN 18 040/2
Flush with floor (no steps to be negotiated)	1,500 mm deep 1,500 mm wide	1,500 mm deep 1,500 mm wide	1,200 mm deep 1,200 mm wide
Retro-installation of a bath	not prescribed for the public domain	to be capable of having a lifter run underneath	must be possible
Tip-up seat	Fixing height 460–480 mm, alternatively free-standing stool 82 8243	Fixing height 460–480 mm, must be retrofittable	as required
Drop-down rails	280 mm above the tip-up seat section on either side	must be retrofittable	
Grab rail	Fixing height 850 mm	as required	as required
Taps	Fixing height 850–1,050 mm at side, within reach of a person sitting down	Fixing height 850–1,050 mm at side, within reach of a person sitting down	as required
Contactless single-lever fittings with protection against scalding	mandatory	recommended	recommended
It is necessary when planning bathrooms and WCs in barrier-free buildings to conform to the following standards:	DIN 18 040 Part 1 governs the planning, execution and fitting-out of publicly accessible buildings or parts thereof/ outbuildings, i.e. all structural facilities besides purely residential buildings. This standard does not, however, apply to schools, nursery schools and hospitals — the respective Federal State building regulations having effect here instead. Workplaces, by contrast, are covered by the Workplace Directive.	DIN 18040 Part 2 governs the planning, execution and fitting-out of new rented and cooperative accommodation and equivalent residential facilities suitable for wheelchair users.	DIN 18040 Part 2 governs the planning, execution and fitting-out of new rented and cooperative barrier-free accommodation and equivalent residential facilities.

$ErgoSystem^{\circ} + METRIC^{\circ}$

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ErgoSystem® E300

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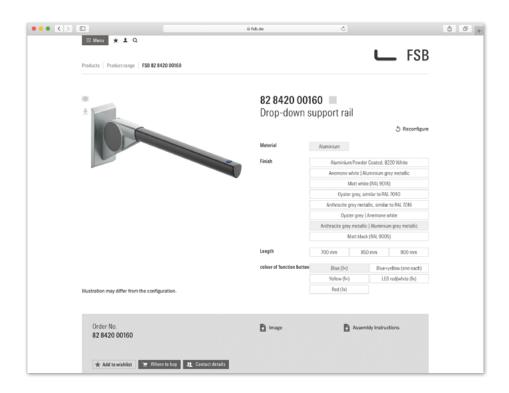
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The Number One choice: ErgoSystem® + METRIC® Bathroom accessories

The A100 and E300 ErgoSystems and METRIC® accessory range fit in with any bathroom and setting in their own different ways. They ensure enhanced levels of convenience without shouting about it and have impressive credentials both functionally, due to their well-conceived ergonomics, and formally, due to their restrained looks. Handles and accessories in Stainless Steel or powder-coated Aluminium, seat surfaces made in kind-to-the-skin PUR, a most exacting level of fabrication and a virtually unrivalled systemic depth: all this makes the ErgoSystem® the ideal solution for handicapped or elderly persons – as well as for those who simply cherish a little more convenience. Anyone looking for bathroom accessories that subtly merge with a space's design is onto a reliably tasteful thing with the METRIC® range. Discerning customers from a variety of sectors have been won over by the system's palpable benefits and have already opted for the number one choice. Cited alongside are a number of reference projects in which ErgoSystem® E300 has been proving its worth for years.

Germany

- · MEDIAN Hohenfeld Clinics Bad Camberg
- DRV Deutsche Rentenversicherung Bund, rehab centre at Bad Driburg, clinic in Berlin
- · Paracelsus-Krankenhaus Unterlengenhardt e.V.
- · Evangelische Martinstift gGmbH, Bad Lippspringe
- · Clinics in Main-Taunus District, Bad Soden
- · DRV Deutsche Rentenversicherung Bund, Berlin
- Fürst Donnersmarck-Stiftung zu Berlin,
 P.A.N. Centre for Post-Acute Neuro-Rehabilitation, Berlin
- · AWO senior citizens' home, Bexbach
- · Hospital at Bietigheim-Bissingen
- Cath. Hospital Union at Weser-Egge, Brakel, Bad Driburg, Höxter and Steinheim
- · Bremen-Mitte Clinic, Bremen
- · Bremen-Ost Clinic, Bremen
- St. Luke's Hospital, Bünde
- BHD St. John's Senior Citizen's Home, Coesfeld-Lette
- · AWO Senior Citizens' Home, Dortmund-Eving
- St. Antony's Centre for the Elderly, Dortmund
- · St. Francis' Hospital, Dülmen
- · St. Mary's Hospital, Düsseldorf
- · Residential Service, Düsseldorf
- · Student Hostels, Düsseldorf (IBS baths)
- · Düsseldorf University Clinic
- · EDI Residential Park, Edingen-Neckarhausen
- · St. Mary's Hospital, Emsdetten
- · Königsfeld Clinic, Ennepetal
- · Erwitte Residential Home
- · Huyssenstift Clinics, Essen-Mitte
- \cdot St. Elisabeth's Hospital, Essen
- · Essen University Clinic (AöR)
- · Freiburg University Clinic
- · Theresianum Old-age and Nursing Home, Fürstenfeldbruck
- · St. Vinzenz-Haus/St. Mary's Hospital, Gelsenkirchen
- · Georgenthal nursing home for the elderly
- Westphalian Clinic for Psychiatry, Gütersloh
- Konrad-Beckhaus-Heim senior citizens' centre, Höxter
- · St. Vincent's Clinics, Karlsruhe
- Quartier Sonnengrün garden village, Karlsruhe

- · Kirchheim-Nürtingen Clinic
- · St. Vincent's Hospital, Cologne
- · Leer Clinic
- · St. Boniface's Hospital, Lingen
- · Holy Trinity Hospital, Lippstadt
- · District Hospital, Lörrach
- · Ludwigsburg Clinic
- · St. Mary's Hospital, Lünen
- · Catholic Clinic, Mainz
- · LVCH Clinic, Malente
- · LWL-Residential Association, Marl-Sinsen
- · Seniorenheim St. Niklas, Mellrichstadt
- · Johannes Wesling Clinic, Minden
- · St. Mary's Hospital, Mülheim a. d. Ruhr
- · Alexianer, Münster
- · Westphalian William's University, Münster
- · Bettenhaus Inkelhofen, Neuwied
- · St. Elisabeth's Hospital, Neuwied
- · St. Anne's Integrative Senior Citizens' and Meeting Centre, Pfaffenhausen
- · Roth Senior Citizens' Home
- · Panorama specialist clinic, Scheidegg/ Allgäu
- · St. Mary's Hospital, Schwerte
- · Emma-Reichle Home, Stuttgart
- · Charlottenhaus gynaecological clinic, Stuttgart
- \cdot St. Mary's Hospital, Stuttgart
- · Filderhof nursing home, Stuttgart-Vaihingen
- · Senior citizens' complex, Thansau
- · BDH-Klinik Vallendar GmbH, specialist clinic for neurology medical/professional rehabilitation, Vallendar
- · Caritasverband für die Region Kempen-Viersen e. V.
- · Wangen hospital
- · AWO St. Matthew's senior citizens' home, Weiskirchen
- · St. Mary's Hospital, Wesel
- LWL Westphalian Clinics at Marl, Lengerich, Münster, Bochum, Herten and Warstein

Belgium

- · UZ Polykliniek Gent
- · WZC Westervier Brugge
- · Care for Life Triamant Geluwe
- · Adagio serviceflats Tielt
- · Kotville Brugge
- · AZ Zeno Knokke
- · Duinenzicht Twin Properties
- · AZ Alma Eeklo
- · CHU St-Pierre
- · MRS Jolie Bois St-Georges
- $\cdot \, \text{WZC Amphora Wingene} \\$
- · MRS Les Avelines Huy
- · MRS Bultia Gerpinnes
- · WZC St-Amand Zwevege
- · AZ St-Jan, Brugge
- · AZ Maria Middelares, Gent
- · AZ Damiaan, Oostende
- · AZ Nikolaas, St-Niklaas
- · GZA gasthuiszusters ziekenhuizen, Antwerpen
- · UZA, Antwerpen
- · OCMW rusthuizen, Brugge
- · OLV ziekenhuis, Aalst
- · St-Franciskusziekenhuis, Heusden-Zolder
- · Welzijnscampus Tourmaliën, Genk
- · WZC Kapittelhof, Lommel
- WZC De Boomgaard, Langemark-Poelkapelle
- · CNRF, Fraiture
- · Résidence Chèvrefeuilles, Havré
- · B&B Maison Bousson, Brugge
- · Hotel La réserve, Knokke
- $\cdot \ \text{Hotel Thon, Brussel} \\$
- · WZC De Zathe, Nieuwpoort
- · RVT Wissekerke, Bazel-Kruibeke
- \cdot RVT Immaculata, Edegem
- $\cdot \ \mathsf{Asster} \ \mathsf{Campus} \ \mathsf{St}\text{-}\mathsf{Trudo}, \ \mathsf{St}\text{-}\mathsf{Truiden}$
- · WZC Heilige Familie, Heist op den Berg
- · WZC Heilig Hart, Nijlen
- · WZC Mariënhove, Malle
- · Care for Live, Heers Velm
- · Zorghotel Wellington, Solidariteit van het gezin, Oostende
- WZC Haerlebout CM, Middelkerke
- · Blok X Stedelijk ziekenhuis, Roeselare
- $\cdot \ \mathsf{UD} \ \mathsf{Woonlabo}, \ \mathsf{Hasselt}$
- · Serviceresidentie Patershof, Beernem
- · Centre Sainte Thérèse, Ciney
- · RVt Het Pardoen, Wervik
- · Residentie Alfons Smet, Dessel
- · WZC Den Akker, St-Truiden
- · WZC St-Jozef, Lichtervelde
- · Mariahove vzw, Bellem
- · Zorghotel De Pupiter, Kluisbergen

France

- · Hôpital de Roanne, Roanne
- · Hôpital Américain, Neuilly
- · Fondation Imagine, Paris
- · Grand Hôtel de Castre, Castre
- · Hôtel de Ville, Montpellier
- · Gares TGV
- · Hôpital Le Vinatier, Lyon
- · Centre Hospitalier Erstein, Strasbourg
- · Polyclinique St. Roch, Montpellier
- · Cercle de Deauville, Deauville
- · Hôtel de Flore, Paris
- · Sofitel, Quiberon Hôtels OKKO, Nantes et Grenoble
- · Le Campus EDF, Palaiseau
- · Galerie La Fayette, Lyon
- Les Sources Caudalie, Martillac
- · Hôtel La Corniche, Le Pyla
- · Hôtel Peninsula, Paris

Luxembourg

· Clinique Ste Marie, Esch-sur-alzette

Monaco

· Conseil National, Monaco

Austria

- · Hospital Dornbirn
- · Senior citizens' home Längenfeld
- · Senior citizens' home Lustenau

Switzerland

- APZ senior citizens' and nursing home, Amriswil
- · University Hospital, Basel
- · Domicil Schwabgut, Bern
- · Flawil senior citizens' and nursing home
- · Alterszentrum Im Hof, Greifensee
- · Tertianum AG Home, Horgen
- · St. Anne's Clinic, Luzern
- · Sonnenberg senior citizens' home, Reinach AG
- · Roche Customer-Service Center, Rotkreuz
- · Spital Schwyz
- · Psychiatric Center, St. Gallen
- · Linthgebiet nursing center, Uznach
- · Seelandheim, Worben
- · The Dolder Grand, Zurich
- · Tertianum AG Home, Zurich Enge

Certification exercises

All the products covered in this brochure undergo stringent quality control at the works. They have additionally been submitted to the TÜV Rheinland testing authority for appraisal and verification of their quality and safeness and certified with that body's Geprüfte Sicherheit ("Tested Safety") kitemark. We shall be pleased to provide you with the applicable certificates if you so desire.



Further information at www.fsb.de/certificates



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