Main door fittings 5

Doha High Rise

Ateliers Jean Nouvel, Paris
www.jeannouvel.com

Photo: CSCEC

FSB 1003 range of handles,
see page 116 f.

FSB 14 1488 wide backplates,
see page 285
FSB 36 4059 informations signs/pictograms,
see page 391
SSF heavy duty mortice locks,
see page 20 ff.

Stainless steel, fine matt, brushed

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www.fsb.de/high_rise

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496 Door pulls
556 Pull bars
558 Door handles – turnably fixed (AGL®)
560 Fixed with self-tapping insert
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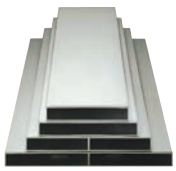

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Whether classic tubular pulls with a round or oval cross-section or the sleek, unobtrusive pull/push handles of the S series with an angular or square cross-section, FSB has the perfect design for any door and taste to hand. This chapter contains the full range. Besides the analogue pull, with isis® F we offer an impressive solution for digital closing. Because: scanning a finger biometrically for access identification should ideally take place on the pull itself – in other words where the fingers grip. You can find our more about FSB door pulls in the isis F series with pull-integrated biometry technology from page 87.

isis® F (= Fingerscan)
Pull programme angular
S-Flat

Square. Practical. New.
FSB's square main door programme.

FSB is adding a small but perfectly formed selection of pulls of angular/ square cross-sections to its established range of round and oval tubular pulls in this new manual.

Having got the ball rolling early in 2010 with a complete range of internal hardware flush doors, frame doors and windows, FSB can now also offer architects, fabricators and end users the formal vocabulary of angular (pull) designs for main doors. The "angular" house door programme includes the following products:

– the new "S-Flat" push/pull pad handle series designed by the established designer Hartmut Weise. In the best Bauhaus tradition, he opted for a geometrical approach in his concept that sees every angular pull matched by a rounded counterpart. The S-Flat pulls are available in various dimensions and open or closed forms. Find out more on pages 496f. and 553.
– as a technical constructive pull solution, FSB's well-known and popular ht series in a welded version with a pull section of 35 × 35 mm and in lengths of 350 to 2100 mm, see page 502f.
– angular and cranked push/pull bars with a Pull cross-section of 25 × 25 mm, which we are also happy to provide in individual designs and impressive special lengths, designs 66 6519 and 66 6520, see page 524.
– as an alternative with an angular section of 40 × 10 mm FSB 66 6548, also in special lengths, see page 514f.
– and finally – the essential security accessory: the new security rose FSB 73 7397, the angular shape also tested and certified to DIN EN 18257 ES1, see page 597.

The accessories range extends from angular door knobs and security hardware, turnably fixed half fittings, plus letterboxes, intercoms and bell-push plates of the series 38 3808, 38 3810 and 38 3811. Not to forget the popular house numerals FSB 38 4005.

Door pull series oval

One key feature of the FSB door pull programme, and an alternative to the traditional round cross-sections, are the oval pulls developed by FSB in the last decade. FSB discovered the formula "diagonal + oval = ideal gripping" reduces the amount of effort required when taking hold of and operating the pulls on doors. The oval styling offers the market a new gripping quality for eye and hand that FSB has copyrighted. As well as the tubular programme, FSB now offers almost all the traditional styles in the user-friendly oval shape.

A flat oval pull series by our in-house designer Hartmut Weise is a modern interpretation of architecture. The ht modular system has been transferred to the oval tube for speedy results. It can be used to create clean solutions on-site up to a length of 1500 mm with no great difficulties. For lengths of 1500 mm or more, FSB recommends a factory welded construction. Welded ht pull versions shorter than 1500 mm are also possible.

The hs modular system also offers other design variants with oval or round stainless steel grip sections and aluminium supports powder-coated in silver grey and with two pull cross-sections.

The back lining on the S-Flat pulls with a curve made of Technogel® ensures a pleasantly soft feel and ergonomic grip.

isis® F: Fingerscan door pull with biometric technology

With electronic functions that provide comfort and security in equal measure, FSB has proven that thinking about a product and considering human habits and preferences can result in significant innovations. After all, the biometric reading of a finger for access identification should ideally take place directly on the pull – in other words, at the point where the fingers make contact, our technicians thought to themselves. No sooner said than done: the result was the isis® F door pull with the biometric identification unit integrated in the pull. Go to page 87 to find out just what the pull can do.

Bronze main door programme

FSB's main door programme has become firmly established as a point of reference in the high quality and exclusive furnishing of entrance areas. It includes pulls from the ht modular system (welded version, round and oval) in lengths of up to 2100 mm, modern designs in the "light + elegant" pull series with a flat-oval cross section, the work of our very own in-house designer Hartmut Wiese, and classic pull designs of 30 mm diameter and in lengths of up to 1200 mm. The programme is rounded off by design FSB 66 6681, which is available in any length and with variably positioned supports.

The accessories programme ranges from door knobs, secrity roses and fittings, turnably fixed door handle half sets (AGL®), intercom and bell-push plates and letterboxes from the series 38 3808, which are optionally available with the name engraved, and with a patinated bronze finish for a particularly elegant effect.

Please request the appropriate brochure (no charge) or go to www.fsb.de/bronze

Materials

As a general rule, FSB tries to offer the entire pull programme in the materials aluminium, stainless steel and a number of standard shapes in bronze or brass, although stainless steel is recommended for doors that experience a high level of traffic. Aluminium finishes can easily be "injured" in such situations without the ageing process having any effect on the pull's suitability for purpose. Because the surface is prone to corrosion, brass pulls are only available with a wax finish. It takes many years for the natural brown protective patina to develop on brass pulls.

Fixed with clamping roses

Fixing with FSB's clamping rose is a type of door pull fixing method in which the FSB door pulls with a round base are positioned safely on the surface of the door by means of an easy-to-fix clamping rose.This eliminates the requirement for the visible fixing screws. The radial play included by FSB provides the necessary tolerance offset. Find out more about this fixing method on page 561.

Fixing scenarios

Door pulls can be either face or through-fixed to doors made of the most diverse materials.

In the case of through-fixing, either a pair of pulls or a single pull can be fitted. There are three fixing options, "back-to-back" fixing, "bolt through" fixing and "face fixing with a self-tapping insert", which are illustrated (see below).

With regard to the issue of face fixing versus bolt-through fixing, FSB wishes to point out that on account of the insert fastening technique FSB uses, face fixing is both aesthetically pleasing and sufficiently durable as a rule. However, there is one restriction with regard to doors with high frequency (for instance in schools, office buildings and other public facilities): in these cases, we strongly recommend bolt-through fixing, which ensures that the furniture remains fit for use even after years of pushing and pulling, since the forces involved are absorbed on both sides of the door.

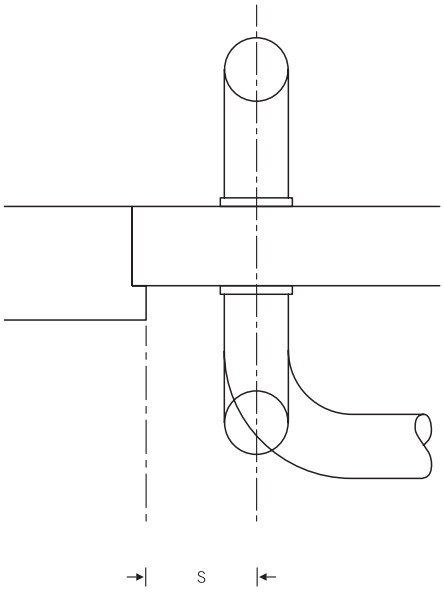
Door pulls: in pairs or singles?

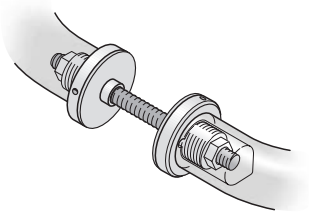
To make it easier to understand the technology and design, we show door pulls in pairs. In this way the reverse side and geometric configuration can be seen. Naturally we also supply door pulls as single items.

Safety clearance (S)

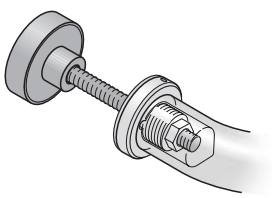
When fitting a pull to the closing face of a door, a safety clearance needs to be included between the pull, stile and jamb. The assembly scenario is made clearer in the following sketch.

It is best to observe the safety clearances recommended by FSB. However, the final decision is determined by the conditions on site.

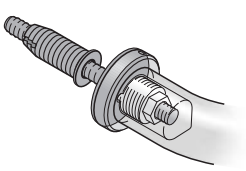




Fixing A
back-to-back fixing



Fixing B
bolt-through fixing



Fixing C
face fixing with self-tapping insert

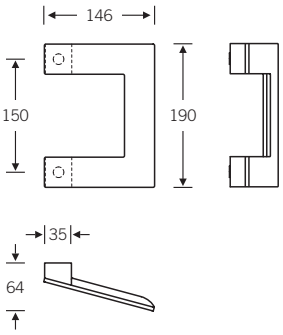
S-Flat push/pull pad handle
angular

For technical information see page 560f.

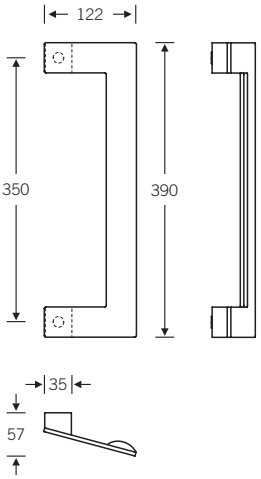
61 6187 | 61 6188

Angular open
Supports powder-coated in silver grey

Fixing M8



61 6187

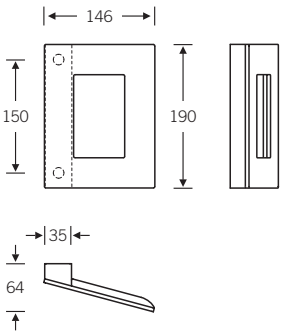


61 6188

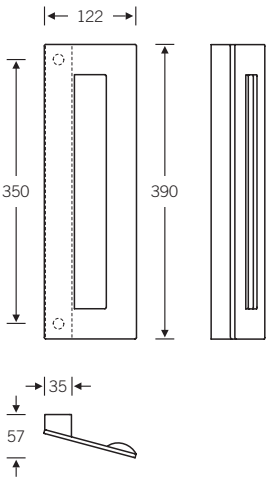
61 6189 | 61 6190

Angular closed
Supports powder-coated in silver grey

Fixing M8



61 6189



61 6190

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fsb.de/616189
fsb.de/616190

Design: Hartmut Weise

Other S-Flat push/pull pad handles
see page 553

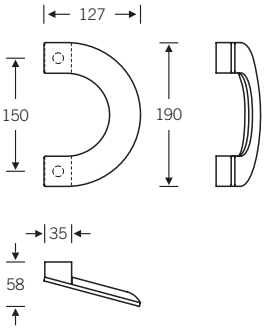
S-Flat push/pull pad handle
round

For technical information see page 560f.

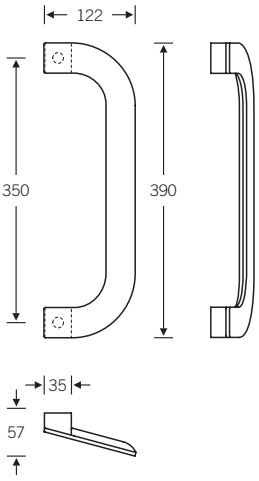
61 6192 | 61 6193

Round open
Supports powder-coated in silver grey

Fixing M8



61 6192

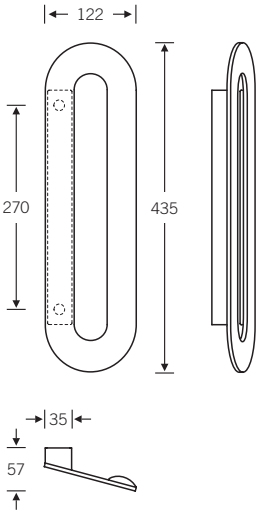


61 6193

61 6195

Round closed
Supports powder-coated in silver grey

Fixing M8



fsb.de/616192
fsb.de/616193
fsb.de/616195

Design: Hartmut Weise

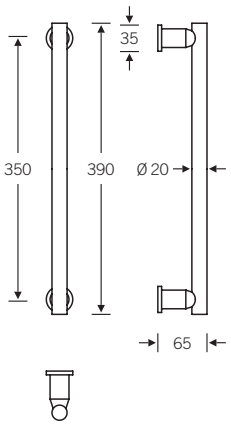
Other S-Flat push/pull pad handles
see page 553

Door pulls
round

For technical information see page 560f.

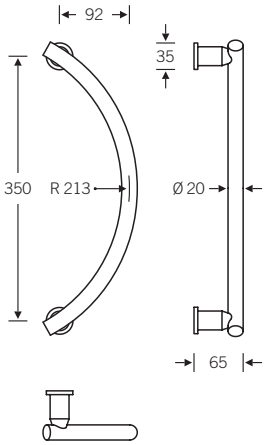
66 6501

Pull cross-section Ø 20 mm
Fixing M8
Safety clearance S = 49 mm
(see page 495)



66 6504

Pull cross-section Ø 20 mm
Fixing M8
Safety clearance S = 59 mm
(see page 495)



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fsb.de/666504

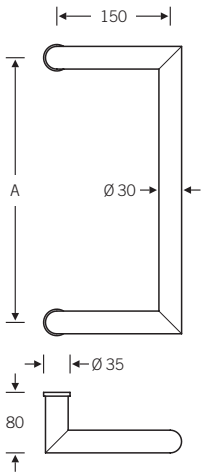
Door pull
round

For technical information see page 560 f.

66 6514

Product no.	A	Ø
66 6514 038	350	30
66 6514 045	450	30

Fixing M8
Safety clearance S = 55 mm
(see page 495)



Door pull
round

For technical information see page 560f.

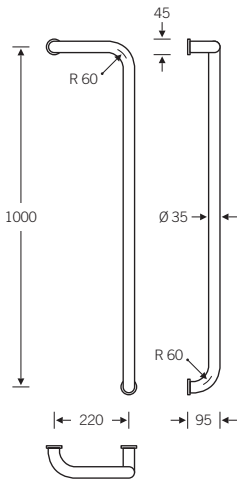
66 6506

66 6506 065 (R)
66 6506 075 (L)

Pull cross-section Ø 35 mm
Fixing M8
Safety clearance S = 47 mm
(see page 495)

Illustration: right, exterior view

Directions see page 738f.



fsb.de/666506

Door pull
round

For technical information see page 560f.

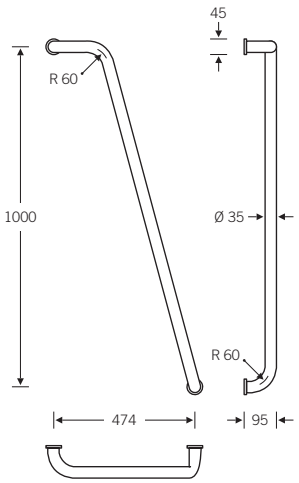
66 6507

66 6507 065 (R)
66 6507 075 (L)

Pull cross-section Ø 35 mm
Fixing M8
Safety clearance S = 47 mm
(see page 495)

Illustration: right, exterior view

Directions see page 738f.



ht angular welded
350 mm to 2100 mm

For technical information see page 560f.

66 6527

Square tube ☐ 35 × 35 × 2.5 mm

66 6527 is a factory-welded version with an angular Pull cross-section based on the concept “md modular system” (page 546f.) or “ht welded” (page 504). FSB manufactures the 66 6527 pull style to order in A sizes from 350 mm to maximum 2100 mm.

The dimensions of the two support variants for a straight or cranked pull design are defined. When ordering, please also provide the A dimension defining the fixing clearance from the middle of the screw hole of one support to the middle of the screw hole of the other support. The overall length of the pull is achieved by adding the dimensions 2 × 20 mm (drill hole clearance including material) thickness.

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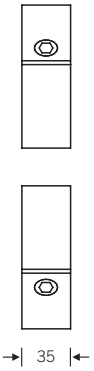

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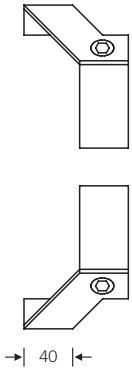
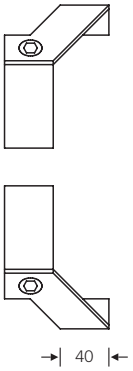
46 . . r.h.



. . 46 r.h.

56 . . l.h.



. . 56 l.h.

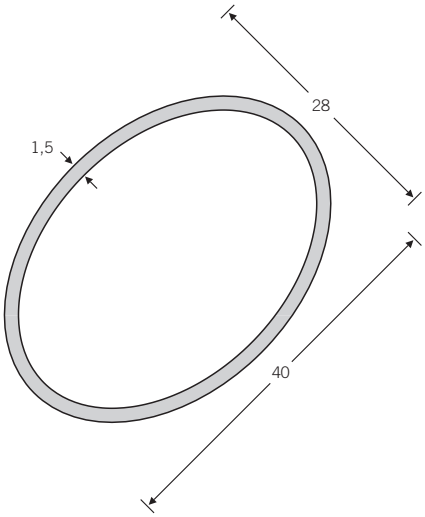
fsb.de/666527

The static requirements and local conditions are to be taken into account when using ht angular welded. These pulls are not a substitute for gymnastic bars, and must not be used as falling protection on hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details on the fixing technology on page 560f.

ht oval welded
1000 mm to 2100 mm

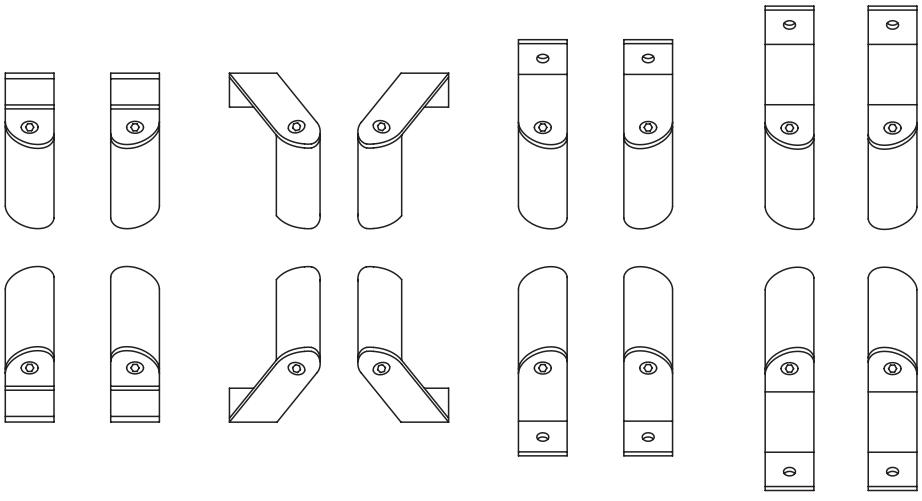
For technical information see page 560f.

66 6524



Tube 28 × 40 × 1.5 mm

66 6524 is the factory-welded version based on the components of the ht oval modular system (see page 549). From dimension A 1000 mm it can be used as an independent pull design, and is also recommended for dimensions A from 1500 to 2100 mm as a stability solution in the ht oval modular system.



45 . . r.h. | 55 . . l.h. | 46 . . r.h. | 56 . . l.h. | 47 . . r.h. | 57 . . l.h. | 48 . . r.h. | 58 . . l.h.

. . 45 r.h. | . . 55 l.h. | . . 46 r.h. | . . 56 l.h. | . . 47 r.h. | . . 57 l.h. | . . 48 r.h. | . . 58 l.h.

The pulls of the welded series FSB 66 6524 are made to order. Specify the desired supporting combination with the drawings and the numbers given there (e. g. FSB 66 6524 4545). Also provide the dimension A, the fixing clearance between the middle of the screw hole of one support to the middle of the screw hole of the other support. Adding or subtracting the differences in dimension on page 549 gives us the tube length of the pull before welding.

We generally manufacture the bronze versions of FSB 66 6524 with the support combination 45/55 or 46/56.

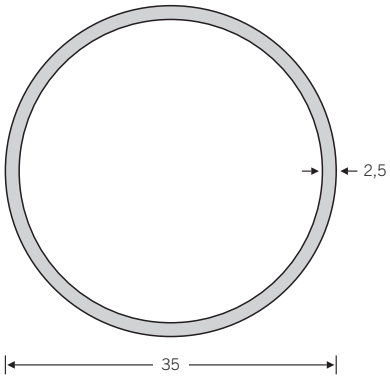
fsb.de/666524

The static requirements and local conditions are to be taken into acount when using ht oval (for self assembly or in the factory-welded version). These pulls are not a substitute for gymnastic bars, and must not be used as falling protection on hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details on the fixing technology on page 560f.

ht round welded
1000 mm to 2100 mm

For technical information see page 560f.

66 6522



Tube Ø 35 × 2.5 mm

66 6522 is the factory-welded version based on the components of the ht round modular system (see page 547). From dimension A 1000 it can be used as an independent pull design, and is also recommended for dimensions A from 1500 to 2100 mm as a stability solution in the ht round modular system.

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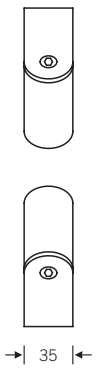

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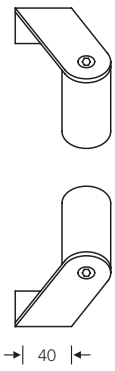
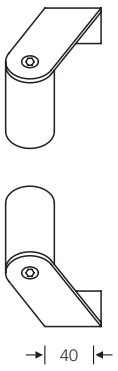
46 . . r.h.



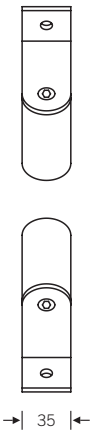
. . 46 r.h.

56 . . l.h.



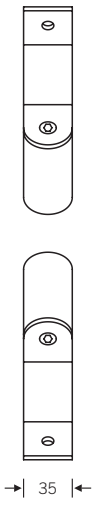
. . 56 l.h.

47 . .



. . 47

48 . .



. . 48

The pulls of the welded series FSB 66 6522 are made to order. Specify the chosen support combination using the drawings and the numbers given there (e. g. FSB 66 6522 5656). Also provide the dimension A that defines the fixing clearance from the middle of the screw hole of one support to the middle of the screw hole of the other support. We add or subtract the differences in dimension on page 546 to calculate the tube length of the pull before welding.

We generally manufacture the bronze versions of FSB 66 6522 with the support combination 45 or 46/56.

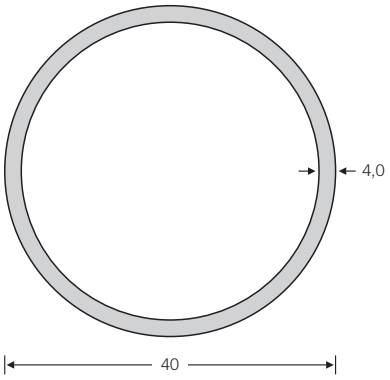
fsb.de/666522

The static requirements and local conditions are to be taken into acount when using ht round (for self assembly or in the factory-welded version). These pulls are not a substitute for gymnastic bars, and must not be used as falling protection on hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details on the fixing technology on page 560f.

ht round welded
Overlengths from 2100 mm

For technical information see page 560f.

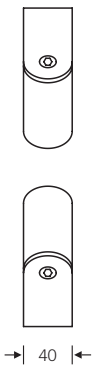
66 6523



Tube Ø 40 × 4 mm

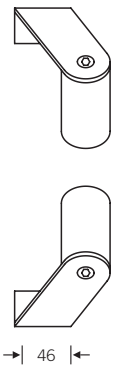
For overlengths starting from a dimension A of 2100 mm, we offer another factory-welded version based on a more stable tube cross-section of 40 × 4 mm. In all other respects FSB 66 6523 is based on the other design elements of the ht round series.

45 . .



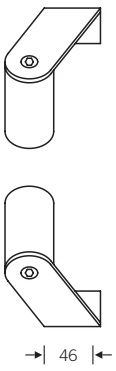
. . 45

46 . . r.h.



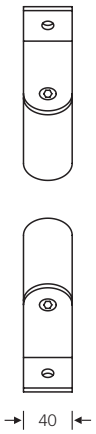
. . 46 r.h.

56 . . l.h.



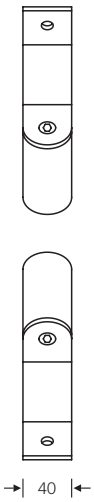
. . 56 l.h.

47 . .



. . 47

48 . .



. . 48

The pulls of the welded series FSB 66 6523 are made to order. Specify the chosen support combination using the drawings and the numbers given there (e.g. FSB 66 6523 5656). Also provide the dimension A that defines the fixing clearance from the middle of the screw hole of one support to the middle of the screw hole of the other support. We add or subtract the differences in dimension on page 546 to calculate the tube length of the pull before welding.

fsb.de/666523

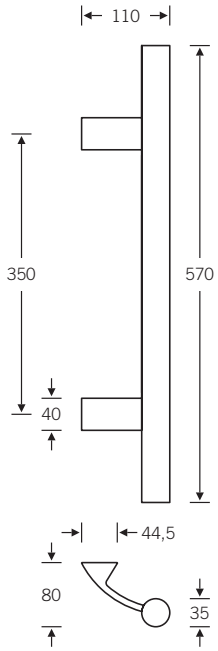
The static requirements and local conditions are to be taken into acount when using ht round (for self assembly or in the factory-welded version). These pulls are not a substitute for gymnastic bars, and must not be used as falling protection on hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details on the fixing technology on page 560f.

Door pull
round

For technical information see page 560 f.

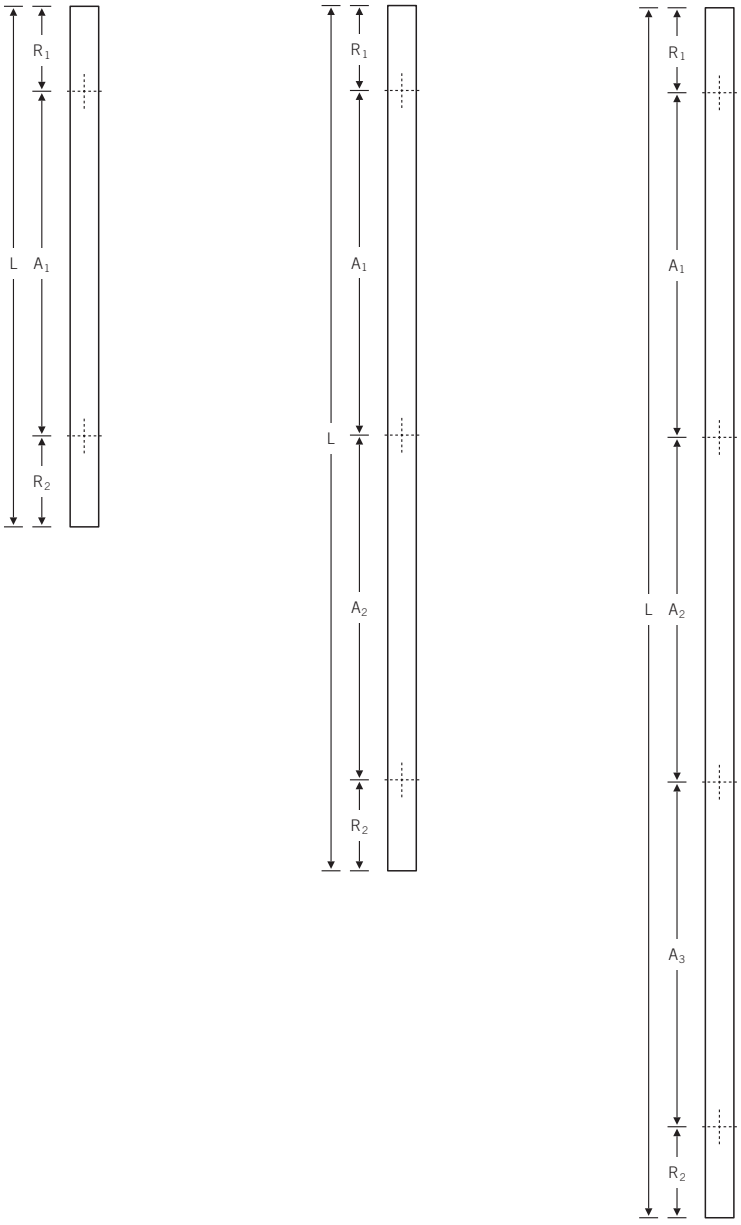
66 6526

Supports aluminium natural-coloured



fsb.de/666526

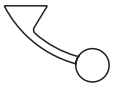
Fax form +49 5272 608-312



Please use a copy of this page to order the door pull series 66 6526 in variable lengths:

In the table below, please enter the quantity and overall length. Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm.

66 6526 (Ø 35 mm)



5a

Quantity	Overall length L	Support clearance A_1	A_2	A_3	Edge clearance* R_1	R_2	Fixing type

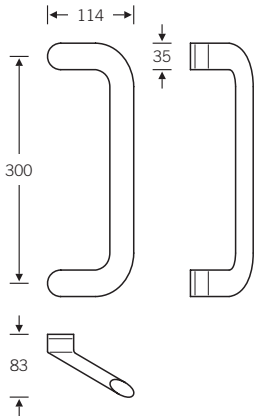
* min. 40 mm, max. 350 mm

Door pulls
oval

For technical information see page 560f.

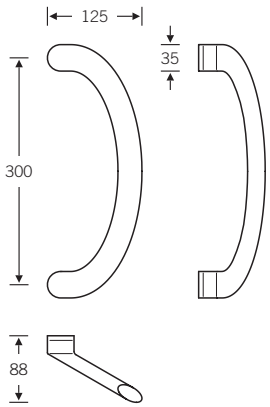
66 6533

Pull cross-section Ø 35 × 17.5 mm



66 6534

Pull cross-section Ø 35 × 17.5 mm



fsb.de/666533
fsb.de/666534

Design: Hartmut Weise

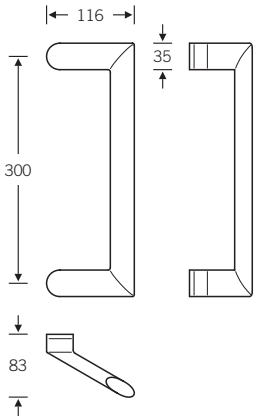
The two pulls in aluminium only available in natural anodised finish (FSB 0105)

Door pulls
oval

For technical information see page 560f.

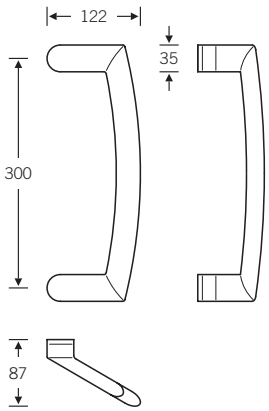
66 6535

Pull cross-section Ø 35 × 17.5 mm



66 6536

Pull cross-section Ø 35 × 17.5 mm



fsb.de/666535
fsb.de/666536

Design: Hartmut Weise

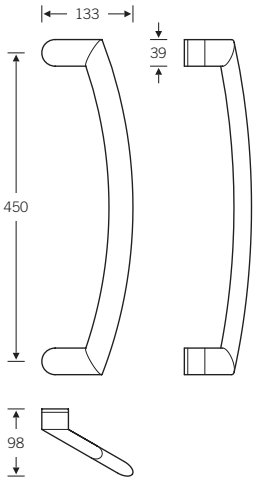
The two pulls in aluminium only available in natural anodised finish (FSB 0105)

Door pull
oval

For technical information see page 560f.

66 6537

Pull cross-section Ø 39 × 20 mm



fsb.de/666537

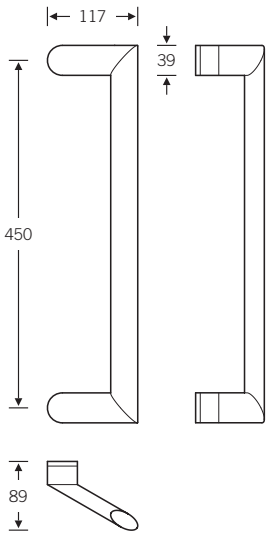
Design: Hartmut Weise

Door pull
oval

For technical information see page 560f.

66 6538

Pull cross-section Ø 39 × 20 mm



fsb.de/666538

Design: Hartmut Weise

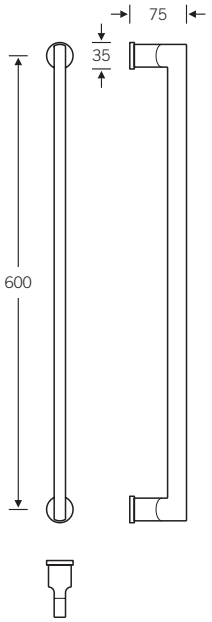
Door pulls
round

For technical information see page 560f.

66 6540

to match FSB 1035

Safety clearance S = 45 mm
(see page 495)

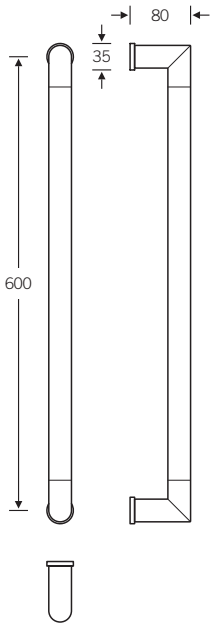


66 6541

to match FSB 1077

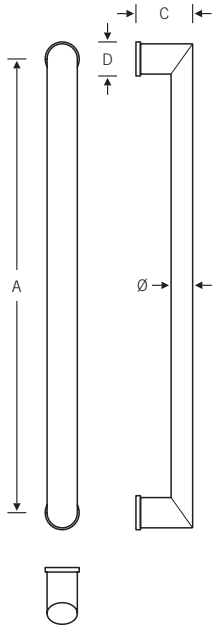
Grip section stainless steel,
elbow aluminium

Safety clearance S = 51 mm
(see page 495)



fsb.de/666540
fsb.de/666541

66 6542

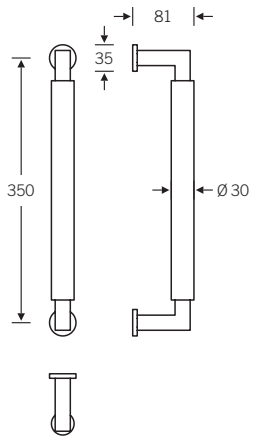


Product no.	A	Ø	C	D	S
66 6542 030	300	30 × 15	60	35	48
66 6542 060	600	40 × 28	75	45	55

to match FSB 1107 and FSB 1108

S = Safety clearance (see page 495)

66 6546



match to FSB 1102

Special lengths with dimensions A possible to 1200 mm

Safety clearance S = 51 mm (see page 495)

fsb.de/666542
fsb.de/666546

Door pull
straight

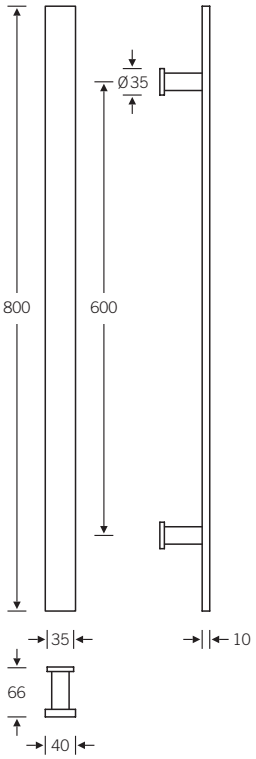
For technical information see page 560f.

66 6548

match to FSB 1003

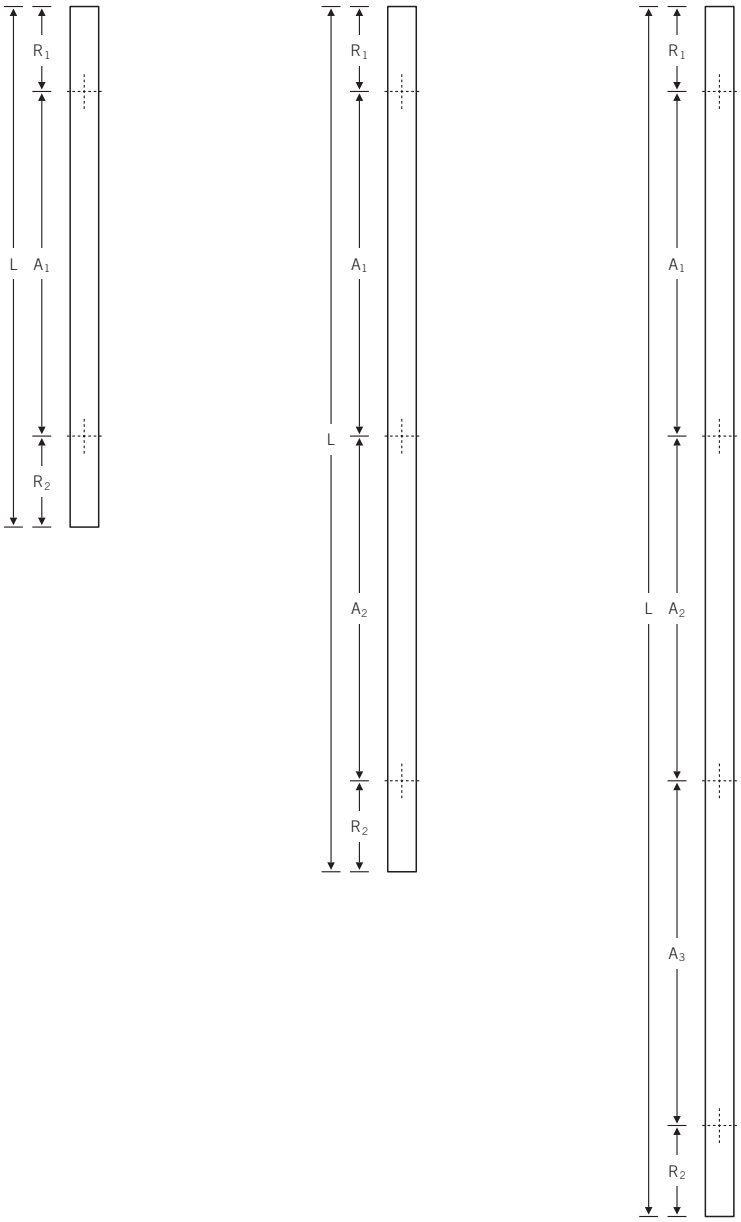
Safety clearance S = 55 mm
(see page 495)

Pull cross-section 40 × 10 mm



fsb.de/666548

Fax form +49 5272 608-312



Please use a copy of this page to order the door pull series 66 6548 in variable lengths:

In the table below, please enter the quantity and overall length. Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 600 mm, and the clearance from the edge 250 mm

66 6548 (Pull cross-section 40 × 10 mm)

5a

Quantity	Overall length L	Support clearance A_1	A_2	A_3	Edge clearance* R_1	R_2	Fixing type

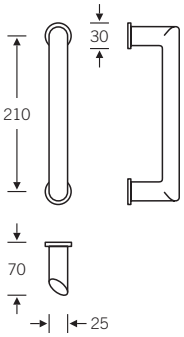
* min. 30 mm, max. 250 mm

Door pulls
oval

For technical information see page 560f.

66 6610

Fixing M6
Safety clearance S = 45 mm
(see page 495)



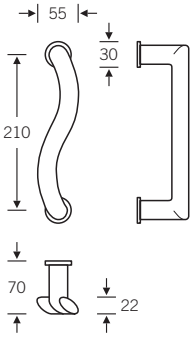
66 6611

66 6611 02485 (R)
66 6611 02585 (L)

Fixing M6
Safety clearance S = 60 mm
(see page 495)

Illustration: right*, exterior view
Directions see page 738f.

* required for DIN left opening
to the inside



fsb.de/666610
fsb.de/666611

Design: Hartmut Weise

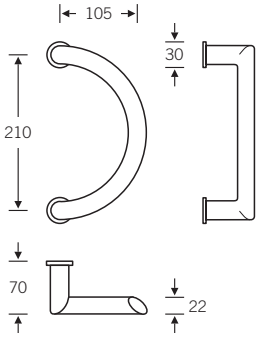
The two pulls in aluminium only available in natural anodised finish (FSB 0105)

Door pulls
oval

For technical information see page 560f.

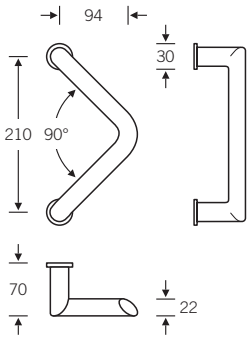
66 6612

Fixing M6
Safety clearance S = 48 mm
(see page 495)



66 6613

Fixing M6
Safety clearance S = 48 mm
(see page 495)



fsb.de/666612
fsb.de/666613

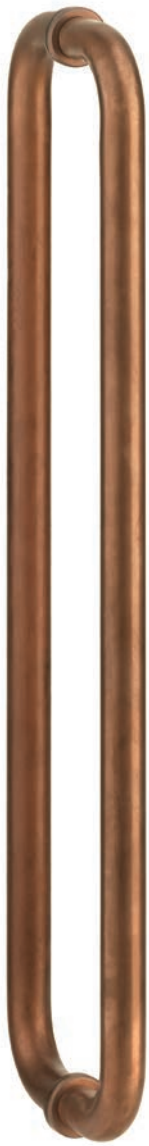
Design: Hartmut Weise

The two pulls in aluminium only available in natural anodised finish (FSB 0105)

Door pull
round

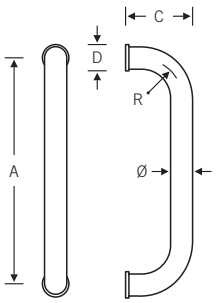
For technical information see page 560f.

66 6602



Product no.	A	Ø	R	C	D	S
66 6627 034	200	20	25	75	30	45
66 6670 034	200	25	40	80	35	48
66 6670 037	300	25	40	80	35	48
66 6670 038	350	25	40	80	35	48
66 6602 038	350	30	55	90	35	51
66 6603 038	350	35	60	95	45	56
66 6604 038	350	40	60	105	45	65
66 6670 099	200–1200	25	40	80	35	48
66 6602 099	300–1200	30	55	90	35	51
66 6603 099	300–1200	35	60	95	45	56
66 6604 099	350–1200	40	60	105	45	65

Bronze only in Ø 25 mm (66 6670) and 30 mm (66 6602)
Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8



fsb.de/666602
fsb.de/666603
fsb.de/666604
fsb.de/666627
fsb.de/666670

S | Safety clearance (see page 495)

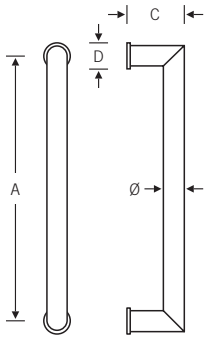
Door pull
round

For technical information see page 560 f.

66 6669

Product no.	A	Ø	C	D	S
66 6606 038	350	25	75	35	50
66 6669 038	350	30	80	35	55
66 6607 038	350	35	85	45	57
66 6609 038	350	40	90	45	60
66 6669 099	custom	30			
66 6609 099	custom	40			

Special lengths with dimensions A to 1200 mm
in Ø 30, 35 and 40 mm
Bronze only in Ø 30 mm (66 6669 038)
Fixing M8



fsb.de/666606
fsb.de/666607
fsb.de/666609
fsb.de/666669

S | Safety clearance (see page 495)

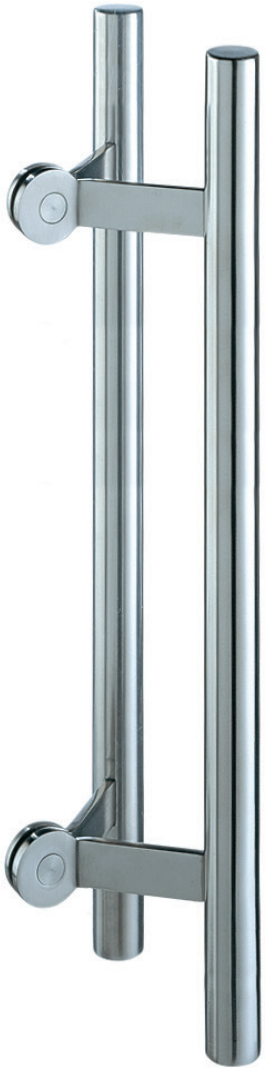
Door pull
round

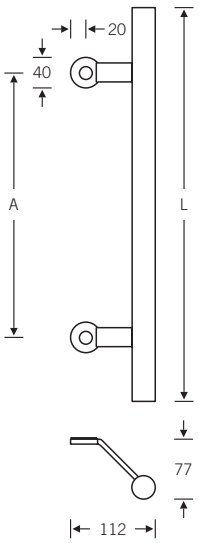
For technical information see page 560f.

66 6615

Product no.	A	Ø	L
66 6615 035	350	30	550
66 6615 045	450	30	650
66 6615 099	451–2100	30	var.

Pull cross-section Ø 30 mm





fsb.de/666615

FSB recommends a support clearance of max. 1200 mm.

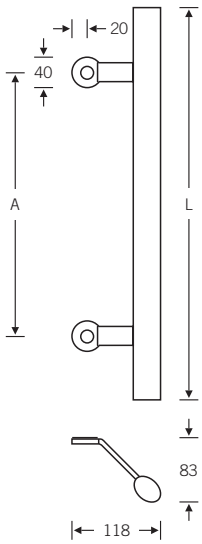
Door pull
oval

For technical information see page 560 f.

66 6616

Product no.	A	Ø	L
66 6616 035	350	40 × 28	550
66 6616 045	450	40 × 28	650
66 6616 099	451–2100	40 × 28	var.

Pull cross-section Ø 40 × 28 mm



fsb.de/666616

FSB recommends a support clearance of max. 1200 mm.

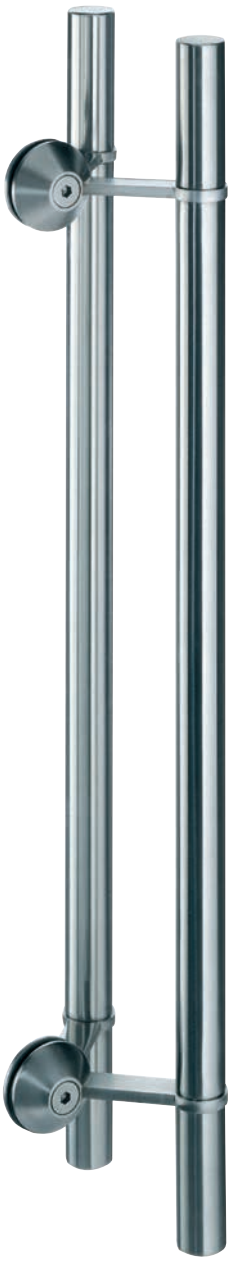
Door pull
round

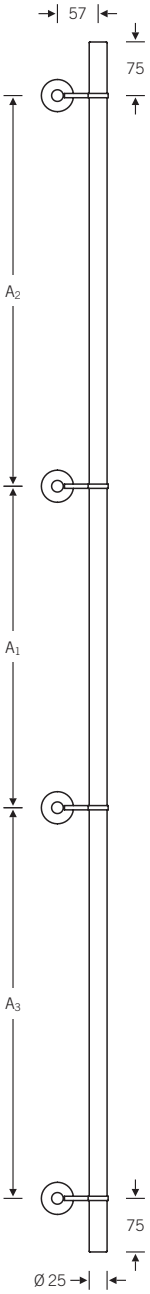
For technical information see page 560f.

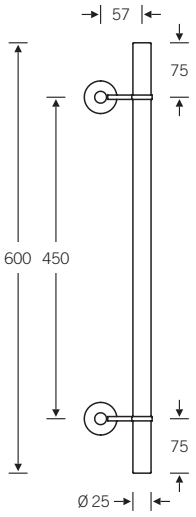
66 6620

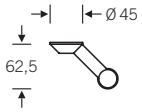
Product no.	A_1	A_2	A_3	Ø	End piece
66 6620 099	X	X	X	25	75 mm

66 6620 045 (overall length 600 mm)









fsb.de/666620

The filigree pull 66 6620 (Ø 25 mm) is ideal for very narrow frame door profiles. The safety clearance from the middle of the fixing to the middle of the pull handle is 57 mm. As a standard pull it is offered with a dimension A of 450 mm and an overall length of 600 mm, but it can also be taken over the entire door. The standard dimension of the end pieces is 75 mm. FSB recommends a maximum support clearance of 1200 mm.

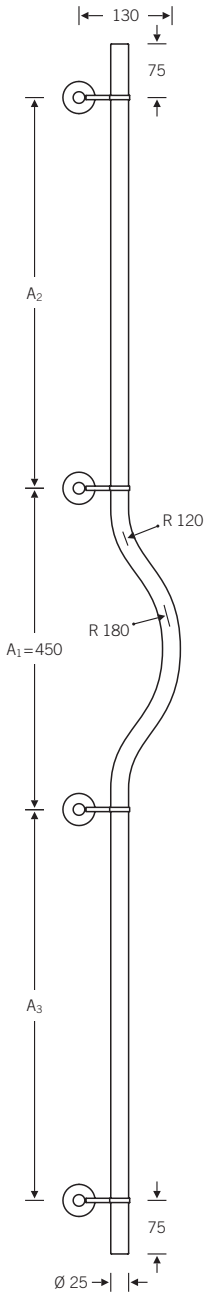
Door pull
round

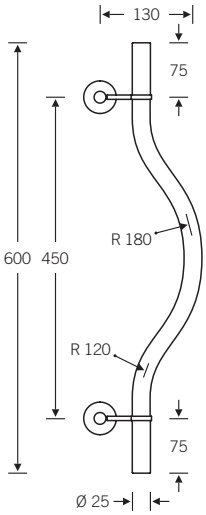
For technical information see page 560 f.

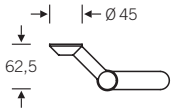
66 6621

Product no.	A_1	A_2	A_3	Ø	End piece
66 6621 099	450	X	X	25	75 mm

66 6621 045 (overall length 600 mm)







5a

fsb.de/666621

The filigree pull 66 6621 (Ø 25 mm) is ideal for very narrow frame door profiles. The safety clearance at the rounded area of the pull is 130 mm. As a standard pull it is offered with a dimension A of 450 mm and an overall length of 600 mm, but it can also be taken over the entire door. The standard dimension of the end pieces is 75 mm. FSB recommends a maximum support clearance of 1200 mm.

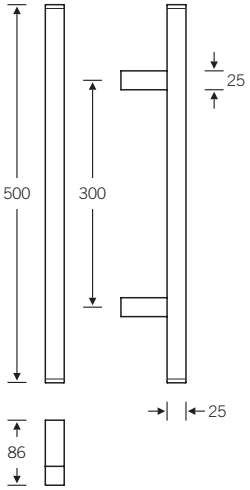
Door pulls
square

For technical information see page 560f.

66 6519

Pull cross-section ☐ 25 × 25 mm
Fixing M8
Standard length 500 mm (also in special lengths; see fax form at side)
Safety clearance S = 53 mm
(see page 495)

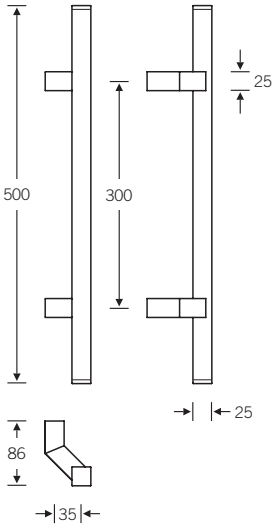
Illustration on left shows a special length



66 6520

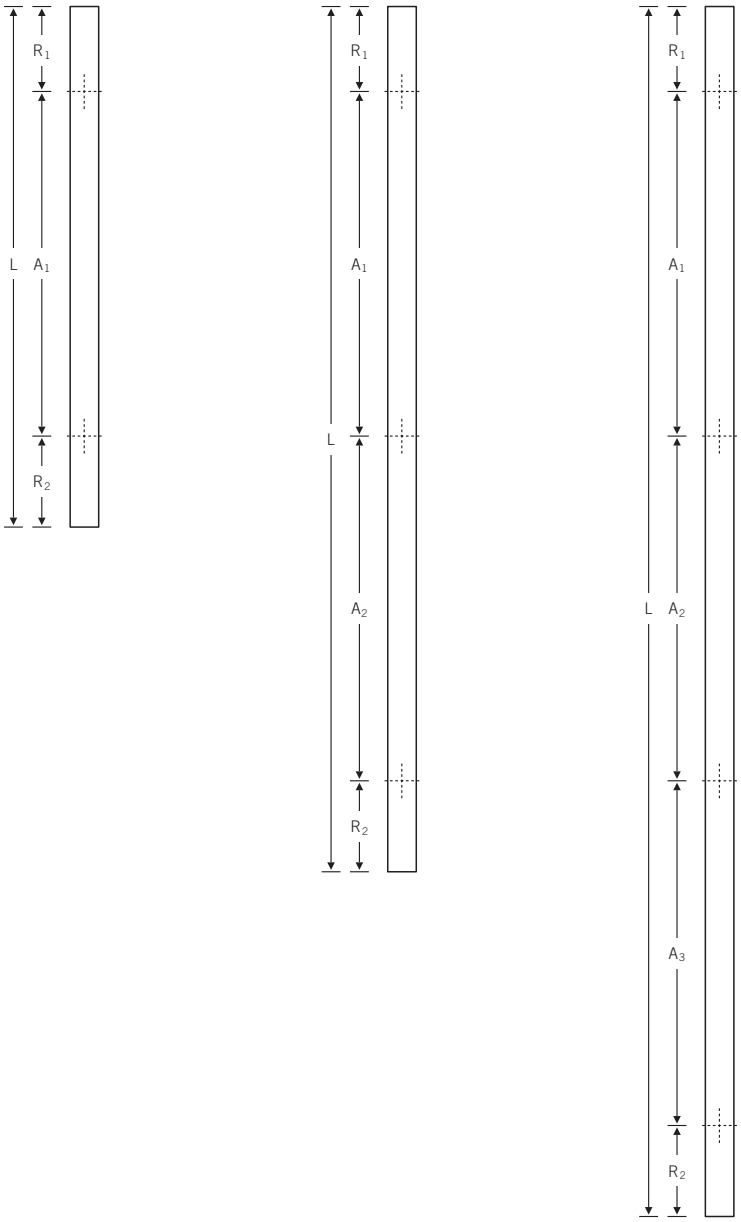
Pull cross-section ☐ 25 × 25 mm
Fixing M8
Standard length 500 mm (also in special lengths; see fax form at side)
Safety clearance S = 46 mm
(see page 495)

Illustration on left shows a special length



fsb.de/666519
fsb.de/666520

Fax form +49 5272 608-312



Please use a copy of this page to order the door pull series 66 6519 or 66 6520 in variable lengths:

Start by using the product numbers to define the desired version. Then, in the table below, enter the quantity and overall length.

Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm.

☐ 66 6519 099 (☐ 25 mm)

☐ 66 6520 099 (☐ 25 mm)

5a

Quantity	Overall length L	Support clearance A_1	A_2	A_3	Edge clearance* R_1	R_2	Fixing type

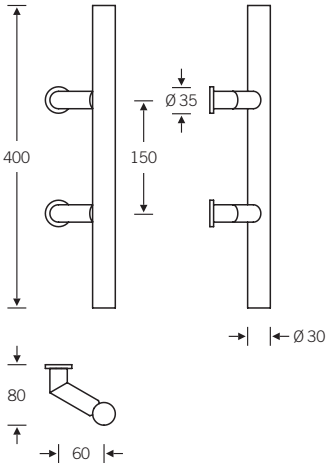
* min. 30 mm, max. 350 mm

Door pulls
round

For technical information see page 560f.

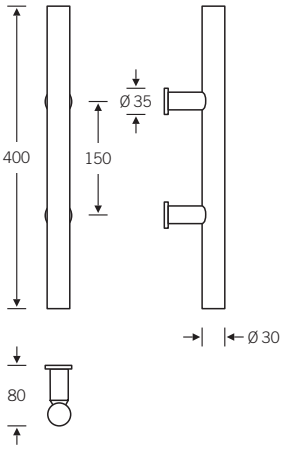
66 6630

Pull cross-section Ø 30 mm
Fixing M8
Standard length 400 mm (also in special lengths; see fax form at side)



66 6681

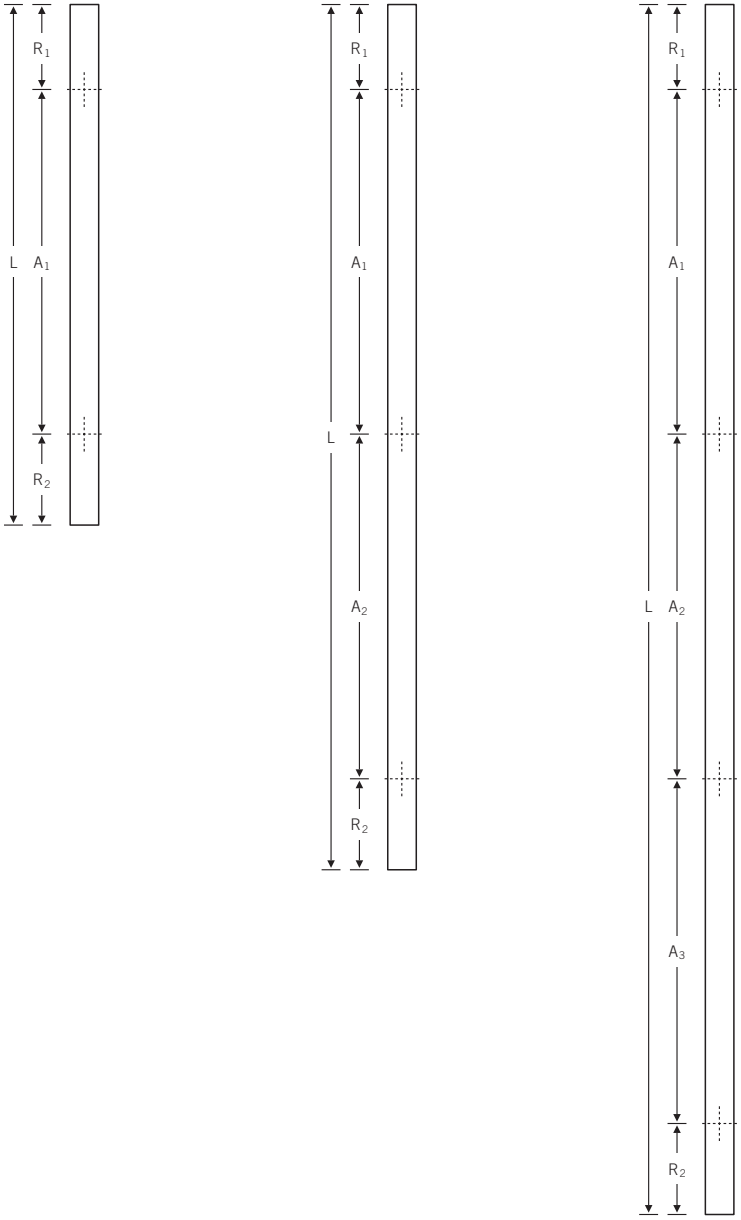
Pull cross-section Ø 30 mm
Fixing M8
Standard length 400 mm (also in special lengths; see fax form at side)
Safety clearance S = 38 mm
(see page 495)



fsb.de/666630
fsb.de/666681

FSB offers two additional locks as special versions for these stainless steel pulls: one flat arched (10) and one offset straight cap (20).

Fax form +49 5272 608-312



Please use a copy of this page to order the door pull series 66 6681 or 66 6630 in variable lengths:

Start by defining the desired version with the pull diameter. Then enter the quantity and overall length in the table below.

Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm. Finally, cross the desired end cap for the standard versionss of Ø 30 mm (stainless steel only).

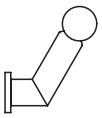
5a

☐ 66 6529 (Ø 25 mm)

☐ 66 6630 (Ø 30 mm)

☐ 66 6531 (Ø 35 mm)

☐ 66 6532 (Ø 40 mm)

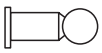


☐ 66 6580 (Ø 25 mm)

☐ 66 6681 (Ø 30 mm)

☐ 66 6582 (Ø 35 mm)

☐ 66 6583 (Ø 40 mm)



Quantity	Overall length L	Cap for 66 6681 / 66 6630 ..00	..10	..20	Support clearance A_1	A_2	A_3	Edge clearance* R_1	R_2	Fixing type

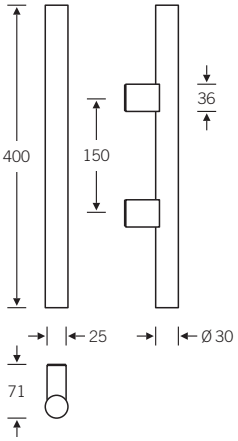
* min. 30 mm, max. 350 mm

Door pulls
round

For technical information see page 560f.

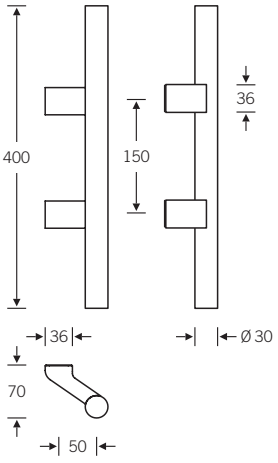
66 6642

Pull cross-section Ø 30 mm
Supports: Aluminium natural-coloured
Grip section: Aluminium or stainless steel
Standard length 400 mm
Fixing M6
Safety clearance S = 38 mm
(see page 495)



66 6643

Pull cross-section Ø 30 mm
Supports: Aluminium natural-coloured
Grip section: Aluminium or stainless steel
Standard length 400 mm
Fixing M6



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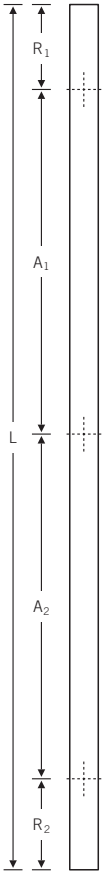
fsb.de/666643

Fax form +49 5272 608-312



Please use a copy of this page to order the door pull series 66 6642 or 66 6643 in variable lengths:

Start by using the product numbers to define the desired version. Then enter the quantity and overall length in the table below.

Then add the clearances between the support, or the clearance from the edge in mm. For reasons of stability, the support clearance should not exceed 1200 mm.

☐ 66 6642 (Ø 30 mm)

☐ 66 6643 (Ø 30 mm)

Quantity	Overall length L	Support clearance A_1	A_2	A_3	Edge clearance* R_1	R_2	Fixing type

* min. 30 mm, max. 350 mm

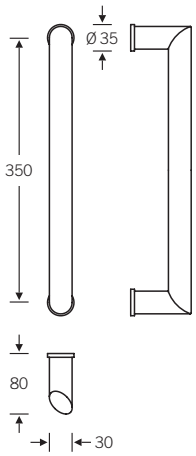
Door pull
oval

For technical information see page 560f.

66 6650

Product no.	A	Ø
66 6650 038	350	36 × 22
66 6650 099	351–1500	36 × 22

Fixing M8
Safety clearance S = 49 mm
(see page 495)



fsb.de/666650

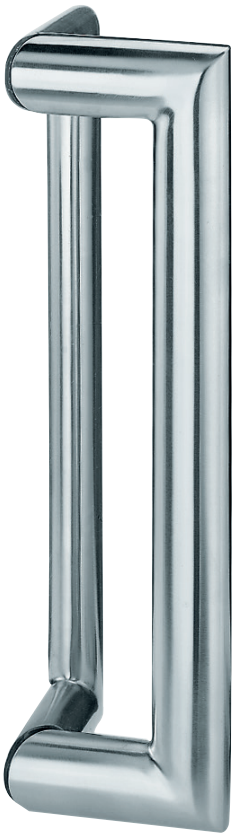
Door pull
oval

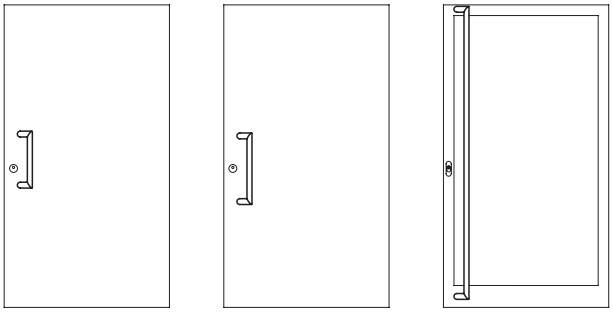
For technical information see page 560 f.

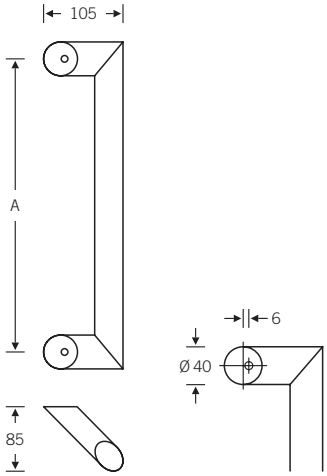
66 6635

Product no.	A	Ø
66 6635 038	350	40 × 28
66 6635 045	450	40 × 28
66 6635 099	451–2100	40 × 28

The door pull design FSB 66 6635 was the first product in FSB's oval series. A comfortable oval tube (Ø 40 × 28 mm) is to be aligned ergonomically so that the hand can grip safely and efficiently. This aim was achieved by mitre welding the pull and support at a 90° angle. This provided a counterpoint to the soft bends of the pull design in round tubes.







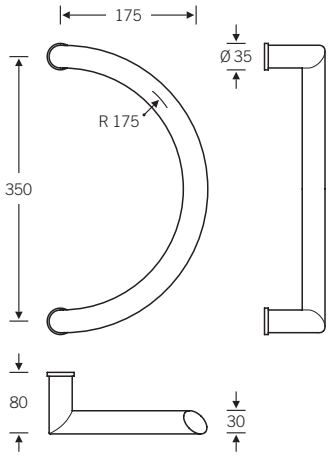
fsb.de/666635

Door pull
oval

For technical information see page 560f.

66 6652

Pull cross-section Ø 36 × 22 mm
Fixing M8
Safety clearance S = 53 mm
(see page 495)



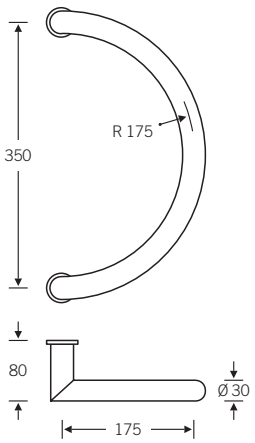
fsb.de/666652

Door pull
round

For technical information see page 560 f.

66 6653

Pull cross-section Ø 30 mm
Fixing M8
Safety clearance S = 55 mm
(see page 495)



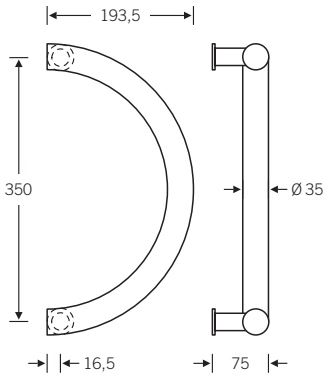
fsb.de/666653

Door pull
round

For technical information see page 560f.

66 6655

Pull cross-section Ø 35 mm
Fixing M8
Safety clearance S = 55 mm
(see page 495)



fsb.de/666655

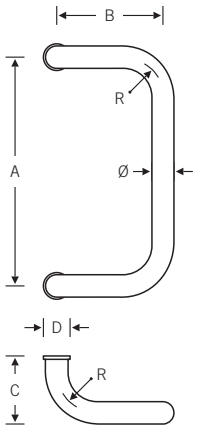
Door pull
round

For technical information see page 560 f.

66 6662

Product no.	A	Ø	R	B	C	D	S
66 6660 034	200	20	25	100	75	30	41
66 6661 034	200	25	40	100	80	35	42
66 6661 037	300	25	40	100	80	35	42
66 6661 038	350	25	40	100	80	35	42
66 6662 038	350	30	55	140	90	35	43
66 6663 038	350	35	60	140	95	45	45
66 6664 038	350	40	60	150	120	45	52
66 6661 099	200–1200	25	40	100	80	35	42
66 6662 099	300–1200	30	55	140	90	35	43
66 6663 099	300–1200	35	60	140	95	45	45
66 6664 099	350–1200	40	60	150	120	45	52

Bronze only in Ø 30 mm (66 6662 038)
Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8



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fsb.de/666661
fsb.de/666662
fsb.de/666663
fsb.de/666664

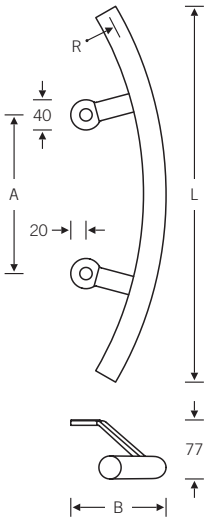
S | Safety clearance (see page 495)

Door pull
round

For technical information see page 560f.

66 6674

Product no.	A	Ø	R	B	L
66 6674 021	210	30	485	126	497
66 6674 035	350	30	1420	123	742



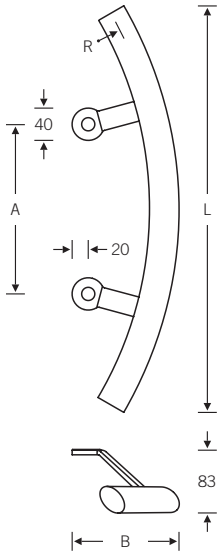
fsb.de/666674

Door pull
oval

For technical information see page 560 f.

66 6675

Product no.	A	Ø	R	B	L
66 6675 021	210	40 × 28	485	132	504
66 6675 035	350	40 × 28	1420	129	745



fsb.de/666675

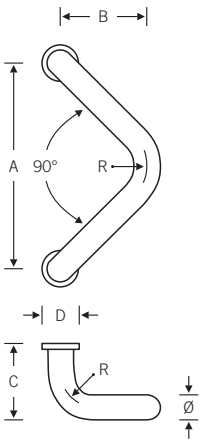
Door pull
round

For technical information see page 560f.

66 6679

Product no.	A	Ø	R	B	C	D	S
66 6649 034	200	20	25	90	75	30	41
66 6679 034	200	25	40	83	80	35	42
66 6679 037	300	25	40	133	80	35	42
66 6679 038	350	25	40	158	80	35	42
66 6623 038	350	30	55	152	90	35	43
66 6624 038	350	35	60	150	95	45	45

Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8



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fsb.de/666624
fsb.de/666649
fsb.de/666679

S | Safety clearance (see page 495)

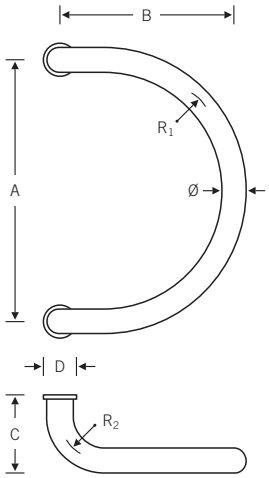
Door pull
round

For technical information see page 560 f.

66 6683

Product no.	A	Ø	R1	R2	B	C	D	S
66 6626 034	200	20	100	25	130	75	30	41
66 6673 034	200	25	100	40	140	80	35	42
66 6673 037	300	25	150	40	190	80	35	42
66 6673 038	350	25	175	40	215	80	35	42
66 6683 038	350	30	175	55	230	90	35	43
66 6659 038	350	35	175	60	235	95	45	45
66 6678 038	350	40	175	60	235	120	45	52

Bronze only in Ø 30 mm (66 6683 038)
Fixing: Ø = 20 mm M6 | Ø ≥ 25 mm M8



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fsb.de/666659
fsb.de/666673
fsb.de/666678
fsb.de/666683

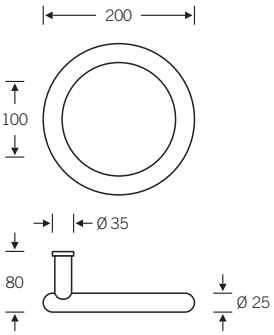
S | Safety clearance (see page 495)

Door pulls
round

For technical information see page 560f.

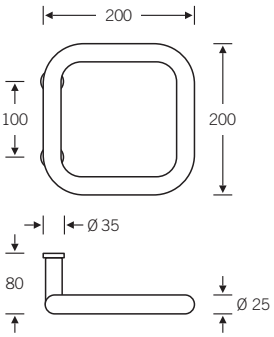
66 6677

Pull cross-section Ø 25 mm
Fixing M8
Safety clearance S = 65 mm
(see page 495)



66 6688

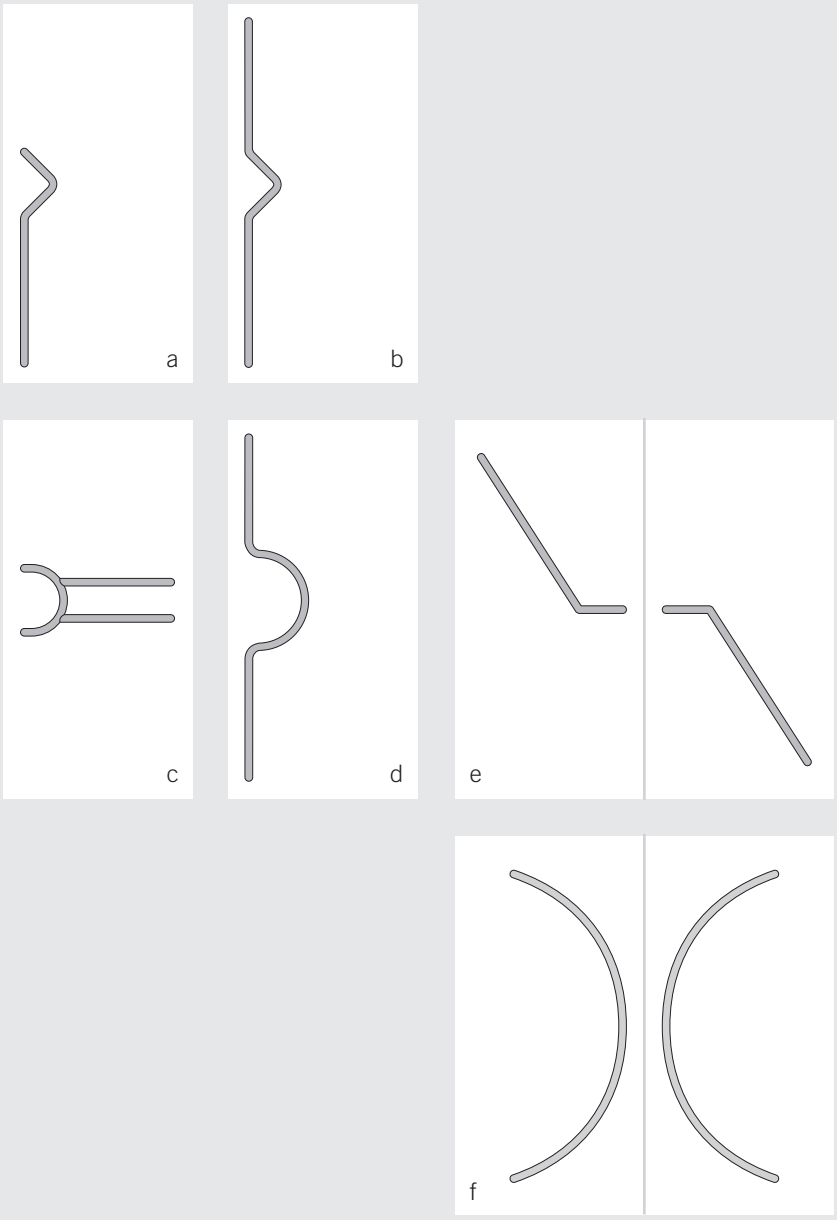
Pull cross-section Ø 25 mm
Fixing M8
Safety clearance S = 48 mm
(see page 495)



fsb.de/666677
fsb.de/666688

Design suggestions
Pull series round

For technical information see page 560f.



The sketched pull constructions in the material stainless steel are intended as an inspiration to planners, designers, retailers and builders.

When sending an enquiry, please state the door type, material and weight. Accurate drawings are essential for an offer and for manufacture.

Directions see page 738f.

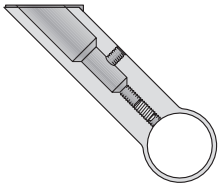
Modular system
hs round

For technical information see page 560f.

The hs modular system of grip sections and supports addresses the issue of individual design choice and functional requirements with a new and unique approach. The round grip sections in stainless steel are available in a diameter of 30 or 25 mm in standard lengths, and in special lengths on enquiry.

The corresponding 45° cranked aluminium supports are anodised in grey, and are mounted securely using a special fixing system.

Design options result from the varying lengths of the grip sections and the free choice and arrangement of the supports. Emphasising the pull ends with one or two supports and positioning the middle supports as desired makes the pull an individual feature and design element for the main door.

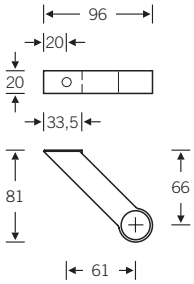


After determining the position and spacing, the supports are attached securely to the grip section by means of an internal screw connection (see ill.).

The alignment of the supports is achieved by placing the pull on a level surface once the first support has been secured, and then attaching the remaining supports with the pull in this position.

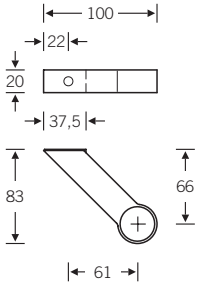
66 6710

Support for grip section 66 6810
Ø 25 mm



66 6711

Support for grip section 66 6811
Ø 30 mm



66 681.

Product no.	Length	Ø grip section
66 6810 00450	450	25
66 6810 00600	600	25
66 6810 00900	900	25
66 6810 01800	1800	25
66 6811 00450	450	30
66 6811 00600	600	30
66 6811 00900	900	30
66 6811 01800	1800	30

fsb.de/666710
fsb.de/666711
fsb.de/666810
fsb.de/666811

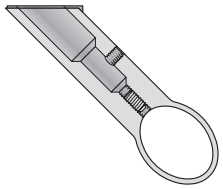
Modular system hs oval

For technical information see page 560 f.

The hs modular system of grip sections and supports addresses the issue of individual design choice and functional requirements with a new and unique approach. The oval grip sections in stainless steel are available in a diameter of 36.5 × 22 or 40 × 28.5 mm in standard lengths, and in special lengths on enquiry.

The corresponding 45° cranked aluminium supports are anodised in grey, and are mounted securely using a special fixing system.

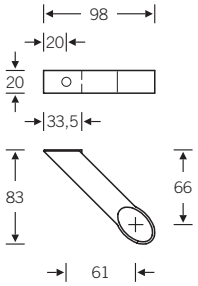
Design options result from the varying lengths of the grip sections and the free choice and arrangement of the supports. Emphasising the pull ends with one or two supports and positioning the middle supports as desired makes the pull an individual feature and design element for the main door.



After determining the position and spacing, the supports are attached securely to the grip section by means of an internal screw connection (see ill.).

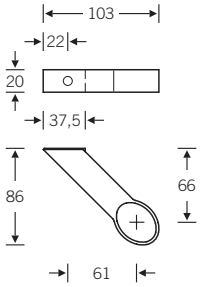
66 6712

Support for grip section 66 6812
Ø 36.5 × 22 mm

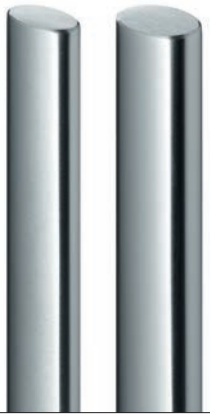


66 6713

Support for grip section 66 6813
Ø 40 × 28.5 mm



66 681.

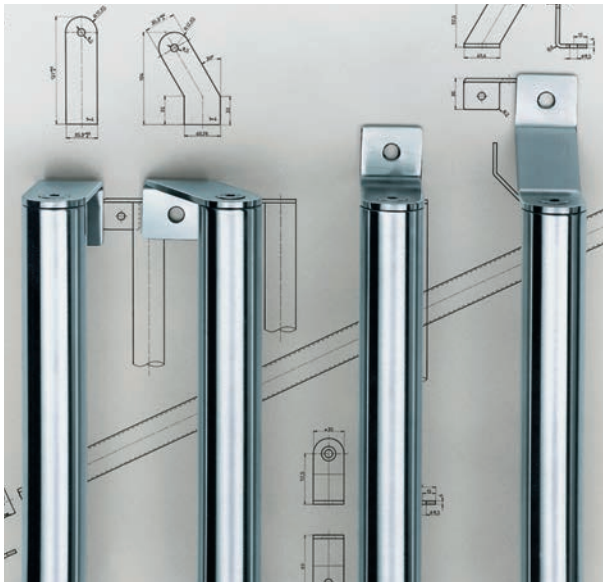


Product no.	Length	Ø grip section
66 6812 00450	450	36.5 × 22
66 6812 00600	600	36.5 × 22
66 6812 00900	900	36.5 × 22
66 6812 01800	1800	36.5 × 22
66 6813 00450	450	40 × 28.5
66 6813 00600	600	40 × 28.5
66 6813 00900	900	40 × 28.5
66 6813 01800	1800	40 × 28.5

fsb.de/666712
fsb.de/666713
fsb.de/666812
fsb.de/666813

Modular system ht round
up to 1500 mm

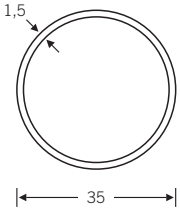
For technical information see page 560 f.



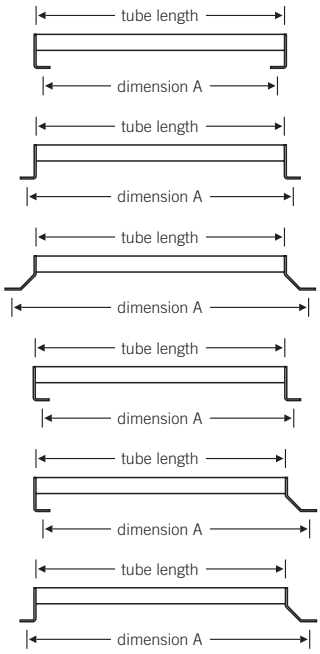
66 6801

Tube Ø 35 × 1,5 mm
Ex works length 3000 mm

The ht round modular system enables the user to measure up pull systems, wall attachments, protective bars etc. on site from our tubes and the corresponding supports with the appropriate tools, and to manufacture them up to a dimension A of 1500 mm and attach them. From a dimension A of 1500 mm, we recommend the factory-welded version FSB 66 6522, see page 504. For dimensions A that are greater than 2100 mm, FSB provides 66 6523 (see page 505) – also factory-welded.



Cut lengths and support combinations:



66 6715 + 66 6715
66 6716 + 66 6716
A + 32 mm = tube length
A + 40 mm = overall length

66 6717 + 66 6717
A – 40 mm = tube length
A + 30 mm = overall length

66 6718 + 66 6718
A – 108 mm = tube length
A + 30 mm = overall length

66 6715 + 66 6717
A – 4 mm = tube length
A + 35 mm = overall length

66 6715 + 66 6718
A – 38 mm = tube length
A + 35 mm = overall length

66 6717 + 66 6718
A – 74 mm = tube length
A + 30 mm = overall length

(overall length incl. supports)

The terms tube length and dimension A are important for manufacture, fixing and ordering. Dimension A defines the fixing distance from the middle of the screw hole of one support to the middle of the screw hole of the other one. The tube length is the result of dimension A plus or minus the dimensional differences to the side.

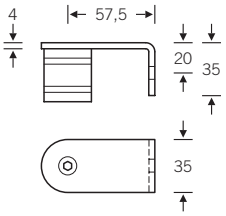
FSB recommends armouring door pulls from the ht round modular system that are to be used in areas with heavy traffic with the offered accessories.

fsb.de/666801

The structural requirements and local conditions are to be taken into acount when using ht round (for self assembly or in the factory-welded version). These pulls are not a substitute for gymnastic bars, and must not be used as falling protection on hazardous building openings. In the event of doubt please consult the architect or structural engineer. Details of fixing technology see page 560 f.

66 6715

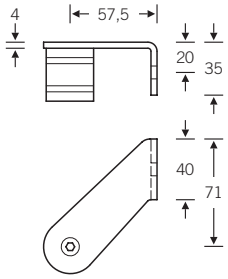
Support straight, flap angled 90° to the inside, to fit tube Ø 35 × 1.5 mm



66 6716

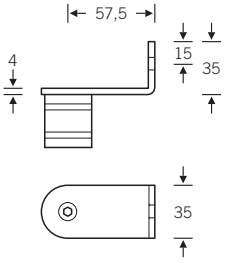
66 6716 014 (R)
66 6716 015 (L)

Support cranked 45°, flap angled 90° to the inside, to fit tube Ø 35 × 1.5 mm, illustration: right



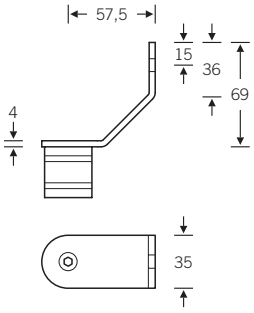
66 6717

Support straight, flap angled 90° to the outside, to fit tube Ø 35 × 1.5 mm



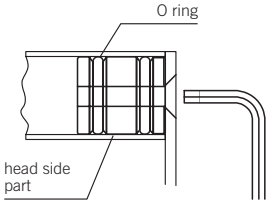
66 6718

Support for swing doors, to fit tube Ø 35 × 1.5 mm



fsb.de/666715
fsb.de/666716
fsb.de/666717
fsb.de/666718

Screw hole Ø 8.5 mm
Safety clearance S = 52 mm
(see page 495)



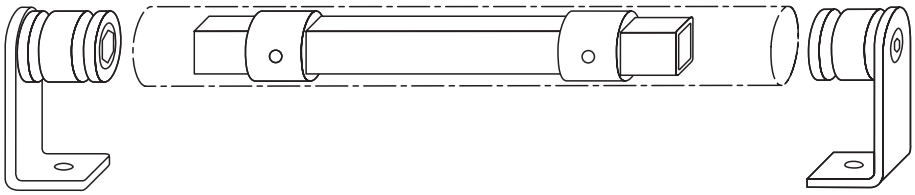
After cutting the tube length (dimension A +/– difference) the rawbolts for the chosen supports are inserted in the tube ends and screwed securely to the head end.

Modular system ht round
Accessories

For technical information see page 560f.

FSB recommends armouring door pulls from the ht round modular system for use on doors with heavy traffic or with a dimension A of 1500–2100 mm with the accessories on this page – or better still, opting for the factory-welded versions FSB 66 6522 or 66 6523 (see page 504f.).

Fixing information: cut steel tube to length: external tube length minus 100 mm. Position spacer sleeves along the steel tube at intervals of 350 mm and secure. Then fit.

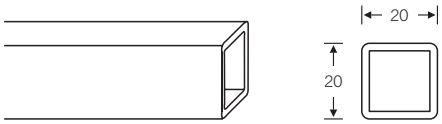


66 6801

Steel tube, hot dip galvanised

66 6801 02020

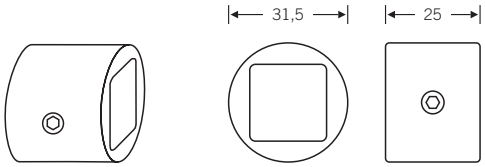
20 × 20 × 2 mm
Ex works length 3000 mm



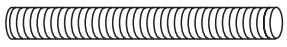
66 6719

Plastic

Spacer sleeve with fixing screw



05 03..



05 0313 00880 (M8 × 80 mm)
Grub screw

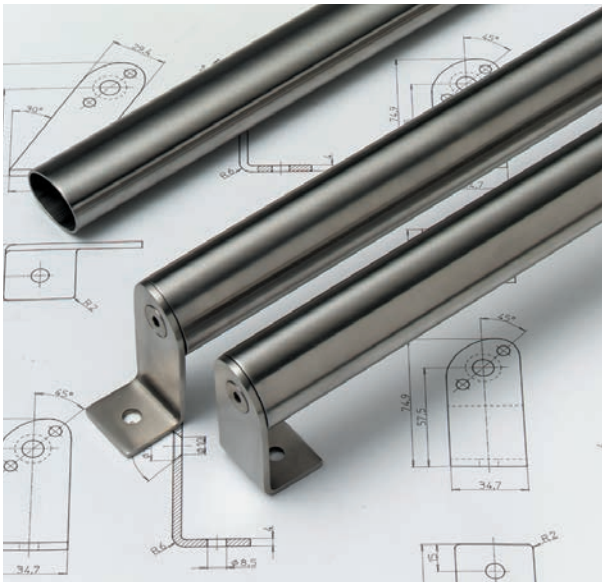
05 0316 00840 (M8)
Wooden grub screw

05 0320 00800 (M8)
Cap nut in stainless steel

fsb.de/666801
fsb.de/666719
fsb.de/050313
fsb.de/050316
fsb.de/050320

Modular system ht oval
up to 1500 mm

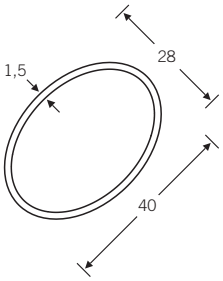
For technical information see page 560f.



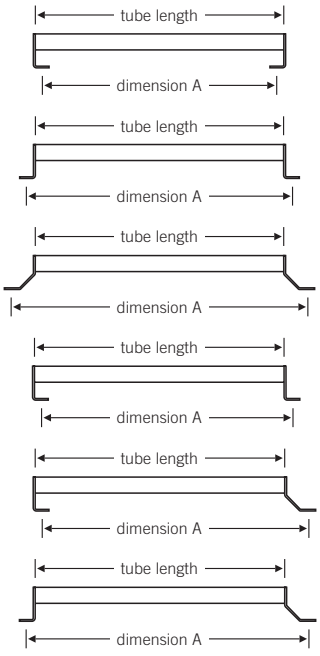
66 6802

Tube 28 × 40 × 1.5 mm
Ex works length 3000 mm

The ht oval modular system enables the user to measure up pull systems, wall attachments, protective bars etc. on site from our tubes and the corresponding supports with the appropriate tools, and to manufacture them up to a dimension A of 1500 mm and attach them. From a dimension A of 1500 mm, we recommend the factory-welded version FSB 66 6524, see page 503.



Cut lengths and support combinations:



66 6735 + 66 6735
66 6736 + 66 6736
A + 32 mm = tube length
A + 40 mm = overall length

66 6737 + 66 6737
A – 40 mm = tube length
A + 30 mm = overall length

66 6738 + 66 6738
A – 108 mm = tube length
A + 30 mm = overall length

66 6735 + 66 6737
A – 4 mm = tube length
A + 35 mm = overall length

66 6735 + 66 6738
A – 38 mm = tube length
A + 35 mm = overall length

66 6737 + 66 6738
A – 74 mm = tube length
A + 30 mm = overall length

(overall length incl. supports)

The terms tube length and dimension A are important for manufacture, fixing and ordering. Dimension A defines the fixing distance from the middle of the screw hole of one support to the middle of the screw hole of the other one. The tube length is the result of dimension A plus or minus the dimensional differences to the side.

FSB recommends armouring door pulls from the ht oval modular system that are to be used in areas with heavy traffic with the offered accessories.

fsb.de/666802

The structural requirements and local conditions are to be taken into acount when using ht oval (for self assembly or in the factory-welded version). These pulls are not a substitute for gymnastic bars, and must not be used as falling protection on hazardous building openings. In the event of doubt please bring in the architect or structural engineer. Details of fixing technology see page 560f.

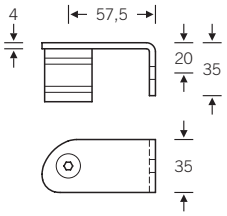
Modular system ht oval
Supports

For technical information see page 560 f.

66 6735

66 6735 004 (R)
66 6735 005 (L)

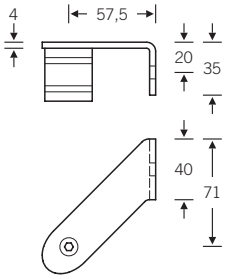
Support straight, flap angled 90°
to the outside, to fit oval tube
Ø 40 × 28 × 1.5 mm



66 6736

66 6736 014 (R)
66 6736 015 (L)

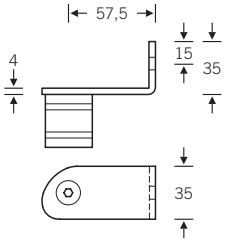
Support cranked 45°, flap angled 90°
to the inside, to fit oval tube
Ø 40 × 28 × 1.5 mm



66 6737

66 6737 004 (R)
66 6737 005 (L)

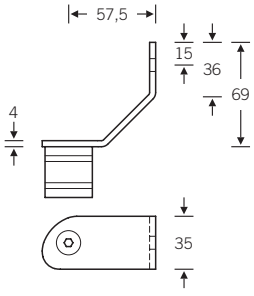
Support straight, flap angled 90°
to the outside, to fit oval tube
Ø 40 × 28 × 1.5 mm



66 6738

66 6738 004 (R)
66 6738 005 (L)

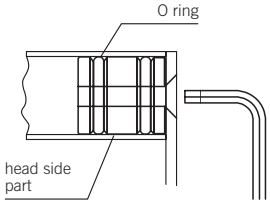
Support for swing doors,
to fit oval tube, Ø 40 × 28 × 1.5 mm



fsb.de/666735
fsb.de/666736
fsb.de/666737
fsb.de/666738

Screw hole Ø 8.5 mm
Safety clearance S = 52 mm
(see page 495)

all illustrations right



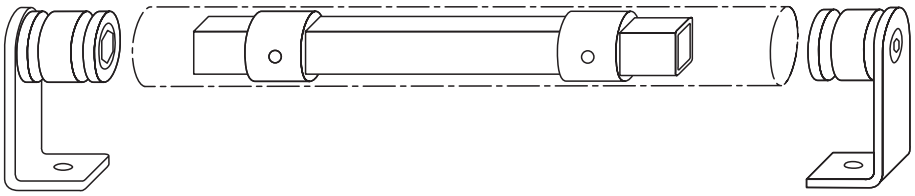
After cutting the tube length (dimension A +/– difference) the rawbolts for the chosen supports are inserted in the tube ends and screwed securely to the head end.

Modular system ht oval
Accessories

For technical information see page 560f.

FSB recommends armouring door pulls from the ht oval modular system that are to be used in areas with heavy traffic or with a dimension A of 1500–2100 mm with the accessories offered on this page – or better still, to opt for the factory-welded version FSB 66 6524 (see page 433).

Fixing information: cut steel tube to length: external tube length minus 100 mm. Position spacer sleeves along the steel tube at intervals of 350 mm and secure. Then fit.

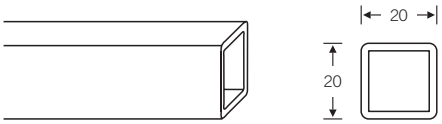


66 6801

Steel tube, hot dip galvanised

66 6801 02020

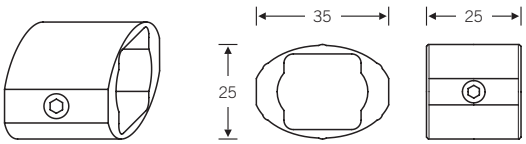
20 × 20 × 2 mm
Ex works length 3000 mm



66 6739

Plastic

Spacer sleeve with fixing screw



05 03..

05 0313 00880 (M8 × 80 mm)
Grub screw

05 0316 00840 (M8)
Wooden grub screw

05 0320 00800 (M8)
Cap nut in stainless steel

fsb.de/666801
fsb.de/666739
fsb.de/050313
fsb.de/050316
fsb.de/050320

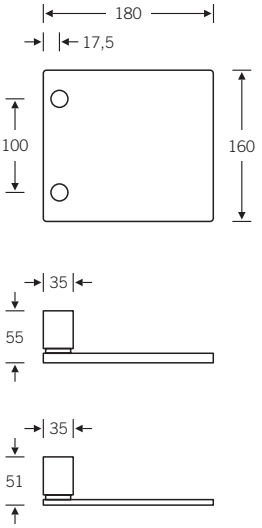
Push/pull pad handles

For technical information see page 560 f.

61 6108

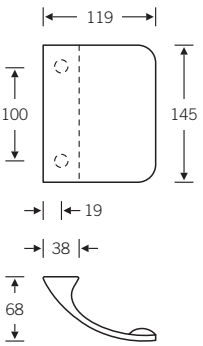
Available versions:
Support: Alu. | Pull plate: Alu.
Support: Alu. | Pull plate: Stainless steel

Fixing M8



61 6112

Fixing M6



fsb.de/616108
fsb.de/616112

Fixing accessories see page 714 f.

S-Flat push/pull pad handle
Square + circle

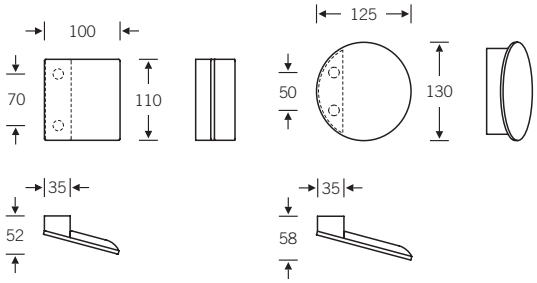
For technical information see page 560f.

61 6186 | 61 6191

61 6186
Supports powder-coated in silver grey

61 6191
Supports powder-coated in silver grey

Fixing M8

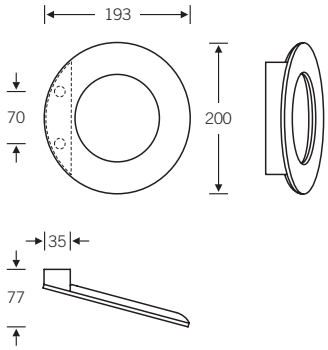


61 6186 61 6191

61 6194

Round closed
Supports powder-coated in silver grey

Fixing M8



fsb.de/616186
fsb.de/616191
fsb.de/616194

Design: Hartmut Weise

Other S-Flat push/pull pad handles see page 496f.

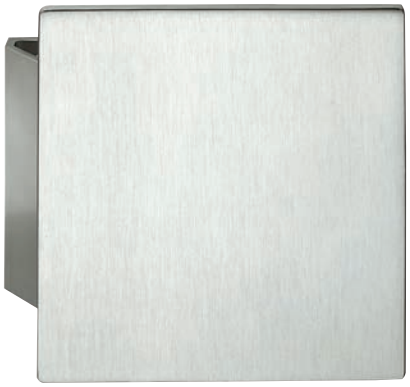
Push/pull pad handles

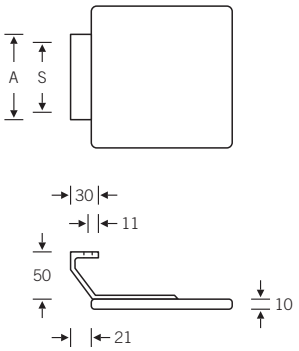
For technical information see page 560 f.

61 6181

61 6181 00062 (pull plate 150 × 150 mm)
Dimension A = 90 mm
Screw hole clearance S = 70 mm

61 6181 00070 (pull plate 180 × 180 mm)
61 6181 00074 (pull plate 200 × 200 mm)
Dimension A = 120 mm
Screw hole clearance S = 100 mm

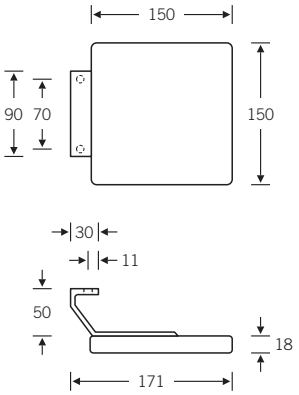




61 6184

61 6184 00062

Plastic pull plate black



fsb.de/616181
fsb.de/616184

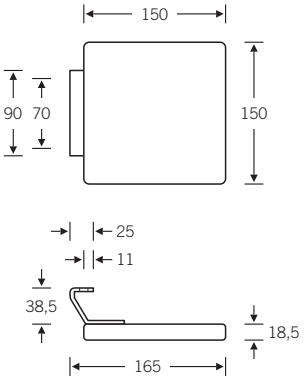
Screw hole Ø 8.5 mm (foot),
engravings for 61 6181 see page 392 f.

Fixing accessories see page 714 f.

For technical information see page 560f.

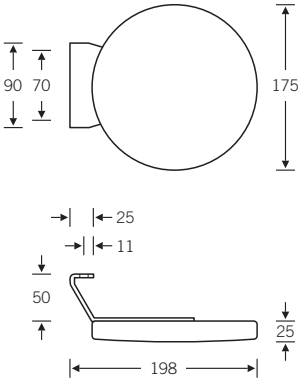
61 6254

61 6254 00062



61 6268

61 6268 00000



fsb.de/616254
fsb.de/616268

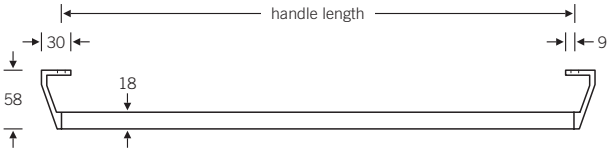
Screw hole Ø 8.5 mm (foot),
engravings see page 392f.

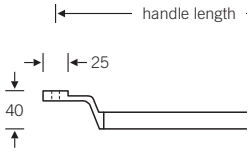
Fixing accessories see page 714f.

Pull bars

For technical information see page 560f.

61 6460





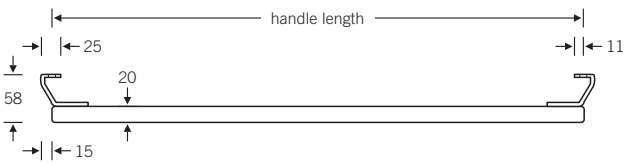
Screw hole Ø 6.5 mm (foot)

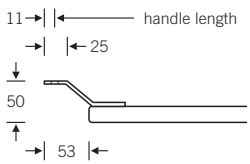
Product no.	A	B
61 6460 00028	100	70
61 6460 00030	120	100
61 6460 00032	150	120
61 6460 00034	200	170

Cranked support for swing doors:

Product no.	A	B
61 6460 00128	100	70
61 6460 00130	120	100
61 6460 00132	150	120
61 6460 00134	200	170

61 6475





Screw hole Ø 8.5 mm (foot)

Product no.	A	B	C
61 6475 00030	120	70	100
61 6475 00032	150	100	120

Cranked support for swing doors:

Product no.	A	B	C
61 6475 00130	120	70	100
61 6475 00132	150	100	120

fsb.de/616460
fsb.de/616475

Fixing accessories see page 714f.

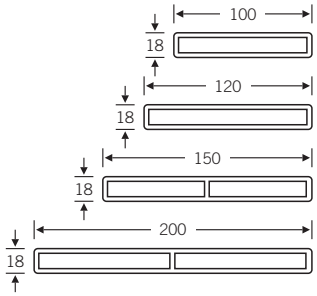
Profiles and supports
for pull bars

For technical information see page 560f.

61 6840 | 61 6841

61 6840 00128 (100 mm)
61 6840 00130 (120 mm)
61 6841 00132 (150 mm)
61 6841 00134 (200 mm)

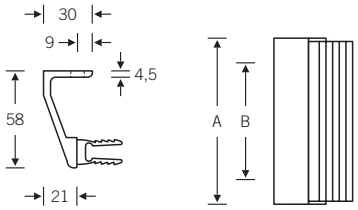
The profiles shown here are warehouse lengths of 4000 mm



61 6763

Screw hole Ø 6,5 mm (foot)

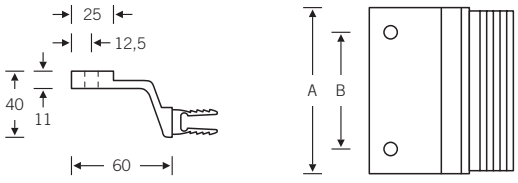
Product no.	A	B
61 6763 00028	100	70
61 6763 00030	120	100
61 6763 00032	150	120
61 6763 00034	200	170

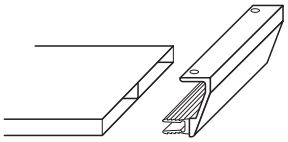


61 6769

Screw hole Ø 6,5 mm (foot)

Product no.	A	B
61 6769 00028	100	70
61 6769 00030	120	100
61 6769 00032	150	120
61 6769 00034	200	170





fsb.de/616840
fsb.de/616841
fsb.de/616763
fsb.de/616769

Fixing accessories see page 714f.

Door handles – AGL® half sets
with positive mechanism

70 1015

70 1015 00504 right hand
70 1015 00505 left hand
(round rose)

8 mm ☐ hole
Design FSB 1015

70 1023

70 1023 00504 right hand
70 1023 00505 left hand
(round rose)

8 mm ☐ hole
Design FSB 1023

70 1070

70 1070 00504 right hand
70 1070 00505 left hand
(round rose)

8 mm ☐ hole
Design FSB 1070

70 1076

70 1076 00504 right hand
70 1076 00505 left hand
(round rose)

8 mm ☐ hole
Design FSB 1076

fsb.de/701015
fsb.de/701023
fsb.de/701070
fsb.de/701076

Door handle with AGL® technology for face fixing to main doors, with a solid base construction including positive mechanism. You will find the required half spindles 05 0115 and 05 0116 on page 707.

Door handles – AGL® half sets
Door knob

70 1108

70 1108 00504 right hand
70 1108 00505 left hand
(round rose)

8 mm ☐ hole
Design FSB 1108

Similar shaped design with arched grip section: FSB 1107, see page 192f.

70 1163

70 1163 00504 right hand
70 1163 00505 left hand
(round rose)

8 mm ☐ hole
Design FSB 1163
ditto, but with rectangular roses (see page 230f):
70 1163 00604 right hand
70 1163 00605 left hand

5a

70 1183

70 1183 00604 right hand
70 1183 00605 left hand
(rectangular rose)

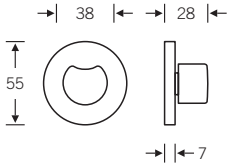
8 mm ☐ hole
Design FSB 1183

Other designs with rectangular rose:
70 1003 0060., see page116f. and
70 1004 0060., see page118f.,
all with 8 mm ☐ hole

03 0418

03 0418 00603
8 mm ☐ hole
Standard spindle projection 40 mm, individual spindle projections possible

Easy-running turning knob on a round rose for concealed face fixed attachment to multiple point locks



fsb.de/701108
fsb.de/701163
fsb.de/701183
fsb.de/030418

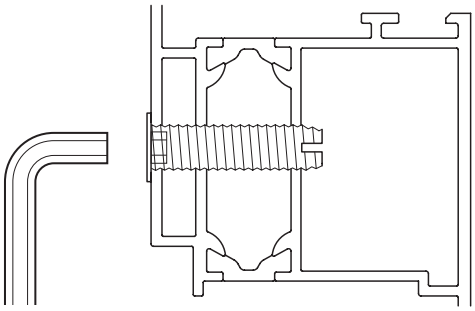
Door handle with AGL® technology for face fixing to main doors, with a solid base construction including positive mechanism. You will find the required half spindles 05 0115 and 05 0116 on page 707.

FSB door pull attachment
with self-tapping insert

FSB's self-tapping insert technology offers a practice-orientated and yet improved solution for concealed face fixed door pull attachments to wooden, aluminium and plastic doors that nonetheless guarantees a far more effective absorption of withdrawal forces by the door profile.

Irrespective of the door thickness or profile type, only a self-tapping insert of 34 mm length will be used.

As it is inserted, the self-tapping thread creates the optimum connection between door profile and self-tapping insert with comparatively minor tolerances that ensures an even and effective traction – as long as a precise drill hole of Ø 12.5 mm has been provided for wooden doors and Ø 13 mm for metal and plastic doors.

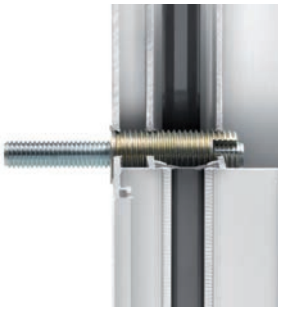


First step

Carry out the mechanical and the manual drills for the FSB self-tapping insert with a diameter of 12.5 mm (wooden doors) or 13 mm (metal and plastic doors).

Second step

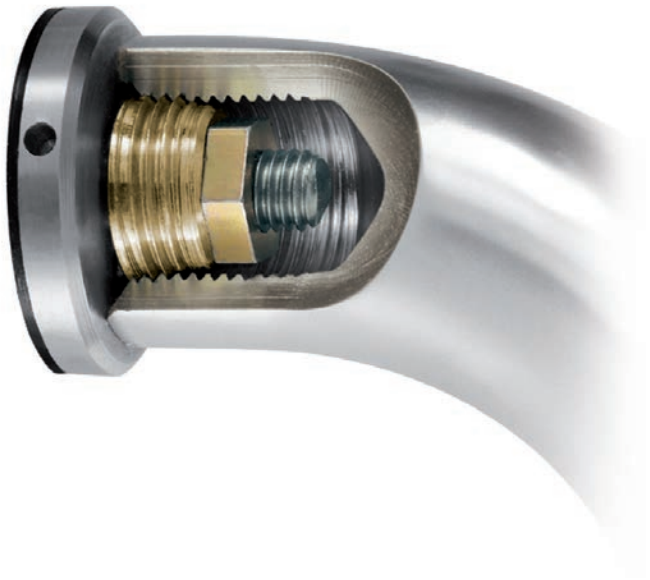
The self-tapping insert is then screwed into place using an SW 8 Allen key. FSB recommends using an Allen key with a knob, as this offers the best possible transmission of the necessary forces. The enclosed grub screw is screwed in once the insert is flush on the profile.



Third step

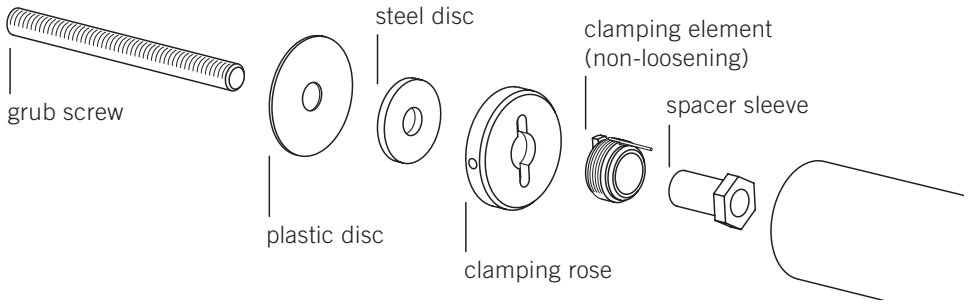
The pull is then mounted on these fixing points.

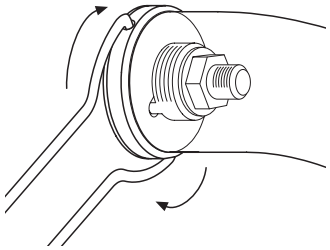
FSB door pull attachment
with clamping roses



The FSB fixing rose attachment is a kind of door pull attachment in which the pulls are drawn firmly onto the door surface. There is no requirement for the usually visible fixing screws.

All door pulls with a round base are supplied in the female version with an internal LH thread of 18 × 1.5 mm (fixing M8) or 14 × 1.5 mm (fixing M6). The fixing rose attachment elements consisting of one plastic disc, steel disc, clamping element (non-loosening), turning rose and spacer sleeve are firmly connected in a single unit with a plastic holder and pre-assembled on the pull end. The FSB fixing rose attachment means that any FSB door pull with a round base can be secured tightly to the surface of the door by means of an easy-to-install fixing rose. The radial play included by FSB provides the necessary tolerance offset. Installation is in the following stages:





First step

First, the grub screw is inserted in the door to take up the clamping elements at a later stage. This process is based on the fixing types “back-to-back” or “bolt through” and “face fixing with a self-tapping insert”.

Second step

The clamping elements are then removed from the pull ends by turning them anti-clockwise. The elements are now pulled off the plastic clip, and fed onto the grub screw in the sequence plastic disc, steel disc, clamping rose and clamping element. The spacer sleeve is used to screw the individual components to each other; the clamping rose and clamping element will still rotate.

Third step

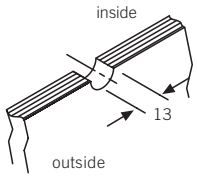
Finally, the pull is placed on the fixing points and attached firmly to the surface of the door by alternately rotating the clamping roses in a clockwise direction.

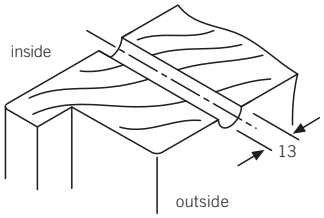
The power wrench for the FSB clamping rose is included in the delivery.

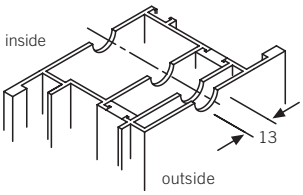
Drilling dimensions

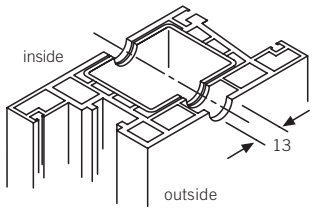
Glass doors	Wooden doors	Metal doors	Plastic doors

Fixings see A

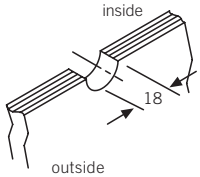


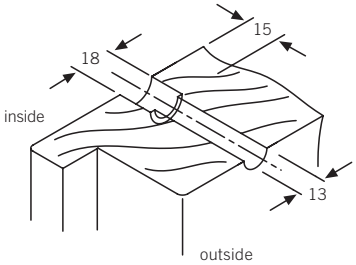


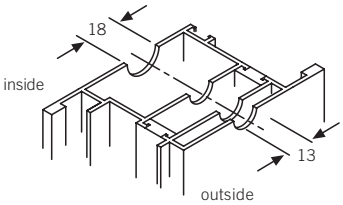


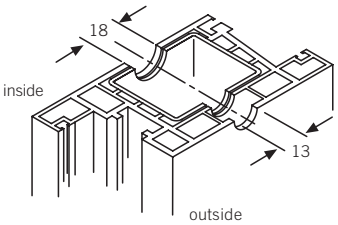


Fixings see B

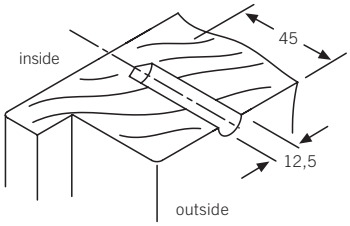


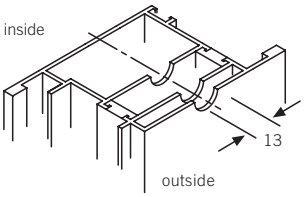


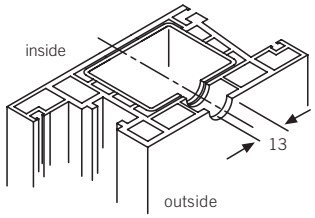


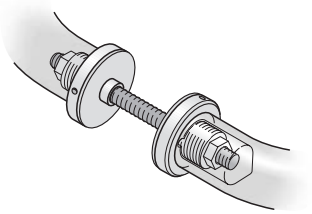


Fixings see C

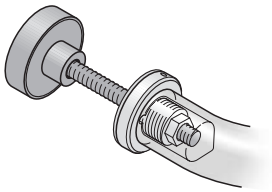




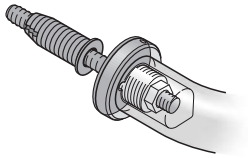




Fixing A
back-to-back fixing:
05 0580, 05 0582, 05 0583, 05 0584, 05 0585, 05 0587, 05 0588
bolt through fixing:
05 0582, 05 0583, 05 0584, 05 0585, 05 0588



Fixing B
bolt through fixing:
05 0580, 05 0587



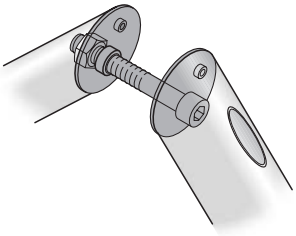
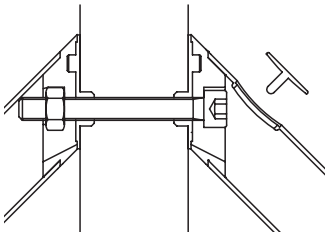
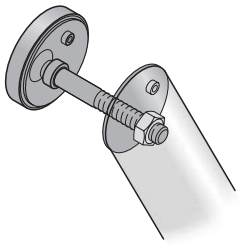
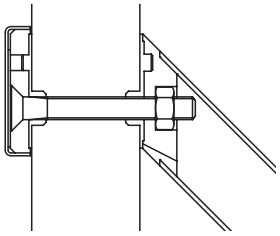
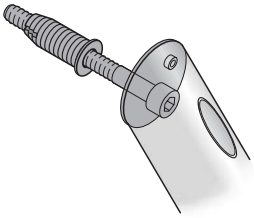
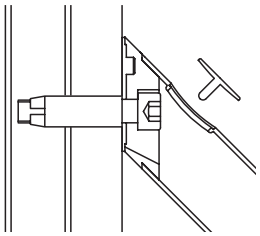
Fixing C
face fixing with a self-tapping insert: all fixings

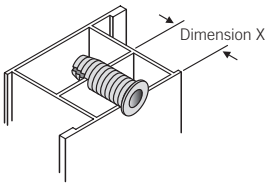
Door pull fixings

Door pull

66 6635

When choosing and ordering the pulls and fixing type, ensure that the pulls in this series are made as the threaded side and as the through side.

	Fixing type	Fixing accessories	Order no.	
	back-to-back fixing 	2 cylinder screw M8 4 plastic washers 2 pull caps in stainless steel Drill Ø 13 mm	05 0582 01008 Glass door 05 0582 03038 05 0582 03045 05 0582 03050 05 0582 03055 05 0582 03060 05 0582 03065 05 0582 03070 05 0582 03075 05 0582 03080	 8 – 10 mm 38 – 44 mm 45 – 49 mm 50 – 54 mm 55 – 59 mm 60 – 64 mm 65 – 69 mm 70 – 74 mm 75 – 79 mm 80 – 84 mm
	bolt-through fixing 	2 countersunk screws M8 4 plastic washers 2 fixing discs with cover caps in stainless steel Drill Ø 13 mm	05 0582 02008 Glass door 05 0582 04038 05 0582 04045 05 0582 04050 05 0582 04055 05 0582 04060 05 0582 04065 05 0582 04070 05 0582 04075 05 0582 04080	 8 – 10 mm 38 – 44 mm 45 – 49 mm 50 – 54 mm 55 – 59 mm 60 – 64 mm 65 – 69 mm 70 – 74 mm 75 – 79 mm 80 – 84 mm
	face fixing with a self-tapping insert 	2 cylinder screw M8 2 plastic washers 2 self-cutting inserts made of hardened steel, galvanised 2 pull caps stainless steel Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0582 00335 Dimension X Dowel length	 10 – 30 mm 34 mm



Dimension X =
chamber dimension

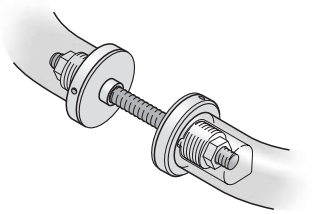
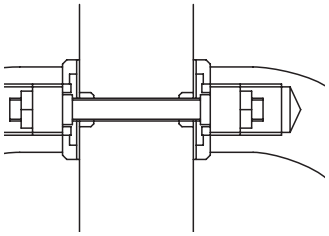
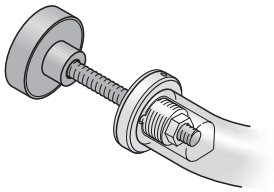
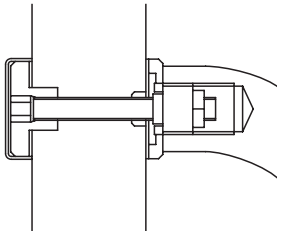
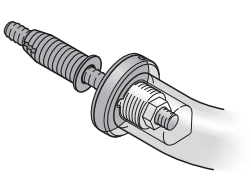
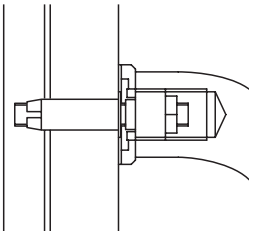
5a

Door pull fixings

Door pulls round M8

66 6501, 66 6504, 66 6506, 66 6507, 66 6514, 66 6533, 66 6534, 66 6535, 66 6536, 66 6537, 66 6538,* 66 6540, 66 6541, 66 6542, 66 6546, 66 6580, 66 6582, 66 6583, 66 6602, 66 6603, 66 6604, 66 6606, 66 6607, 66 6609, 66 6623, 66 6624, 66 6625, 66 6630, 66 6650, 66 6652, 66 6653, 66 6655, 66 6659, 66 6661, 66 6662, 66 6663, 66 6664, 66 6669, 66 6670, 66 6673, 66 6677, 66 6678, 66 6679, 66 6681, 66 6683, 66 6688

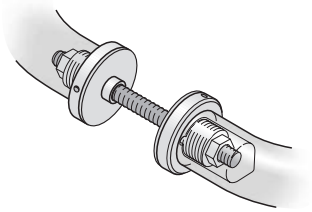
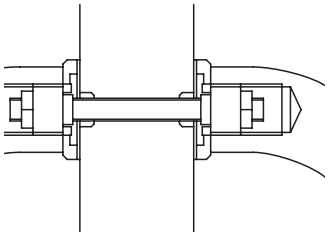
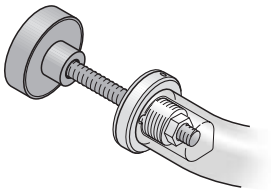
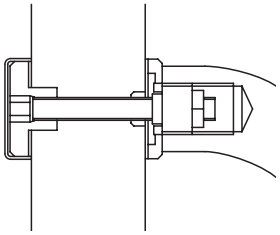
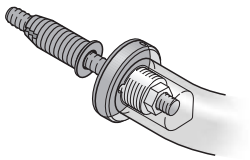
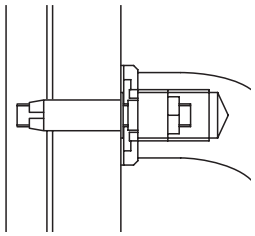
* Fixing technology isis® F varies, see www.fsb.de/isis

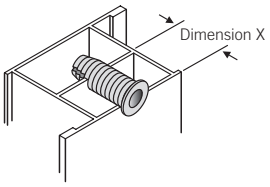
	Fixing type	Fixing accessories	Order no.
	back-to-back fixing 	2 threaded rods M8 Drill Ø 13 mm	05 0580 01008 Glass door 8 – 10 mm 05 0580 03035 35 – 54 mm 05 0580 03055 55 – 74 mm 05 0580 03075 75 – 94 mm
	bolt-through fixing 	2 threaded rods M8 2 fixing nuts with cover caps Drill Ø 13/18 mm, see page 562	Pull diameter 25/30 mm 05 0580 02308 Glass door 8 – 10 mm 05 0580 04335 35 – 44 mm 05 0580 04345 45 – 54 mm 05 0580 04355 55 – 64 mm 05 0580 04365 65 – 74 mm 05 0580 04375 75 – 84 mm Pull diameter 35/40 mm 05 0580 02408 Glass door 8 – 10 mm 05 0580 04435 35 – 44 mm 05 0580 04445 45 – 54 mm 05 0580 04455 55 – 64 mm 05 0580 04465 65 – 74 mm 05 0580 04475 75 – 84 mm
	face fixing with a self-tapping insert 	2 grub screws M8 2 self-cutting inserts made of hardened steel, galvanised Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0580 00335 Dimension X 10 – 30 mm Dowel length 34 mm 05 0580 00336 Dimension X 10 – 41 mm Dowel length 45 mm 05 0580 00337 Dimension X 10 – 54 mm Dowel length 58 mm

Door pull fixings

Door pulls round M6

36 3688, 66 6610, 66 6611, 66 6612, 66 6613

	Fixing type	Fixing accessories	Order no.
	back-to-back fixing 	2 threaded rods M6 Drill Ø 13 mm	05 0580 01208 Glass door 8 – 10 mm 05 0580 03235 35 – 54 mm 05 0580 03255 55 – 74 mm 05 0580 03275 75 – 94 mm
	bolt-through fixing 	2 threaded rods M6 2 fixing nuts with cover caps Drill Ø 13/18 mm, see page 562	Pull diameter 20/25 mm 05 0580 02208 Glass door 8 – 10 mm 05 0580 04235 35 – 44 mm 05 0580 04245 45 – 54 mm 05 0580 04255 55 – 64 mm 05 0580 04265 65 – 74 mm 05 0580 04275 75 – 84 mm
	face fixing with a self-tapping insert 	2 grub screws M6 2 self-cutting inserts made of hardened steel, galvanised Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0580 00435 Dimension X 10 – 30 mm Dowel length 34 mm

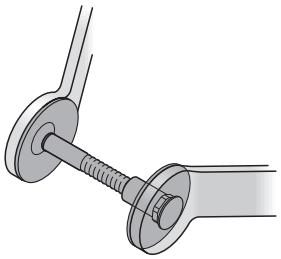
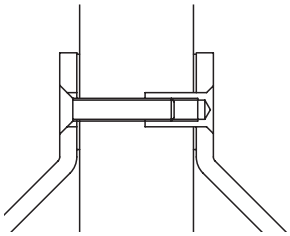
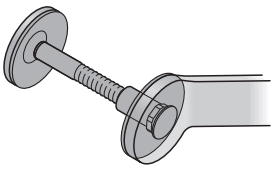
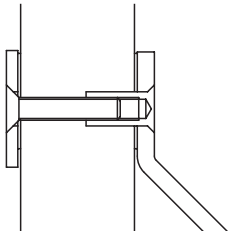
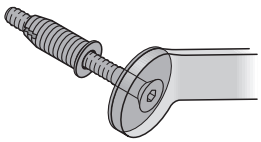
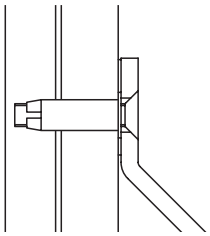


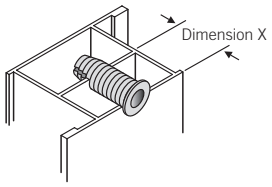
Dimension X =
chamber dimension

Door pull fixings

Door pulls

66 6615, 66 6616, 66 6625, 66 6674, 66 6675

	Fixing type	Fixing accessories	Order no.	
	back-to-back fixing 	2 countersunk screws M8 with sleeve nuts M8 in stainless steel 4 plastic washers Drill Ø 13 mm	05 0583 01008 Glass door 05 0583 03034 05 0583 03044 05 0583 03054 05 0583 03064 05 0583 03074	 8 – 10 mm 34 – 43 mm 44 – 53 mm 54 – 63 mm 64 – 73 mm 74 – 83 mm
	bolt-through fixing 	2 countersunk screws M8 with sleeve nuts M8 in stainless steel 2 washers in stainless steel 4 plastic washers Drill Ø 13 mm	05 0583 02008 Glass door 05 0583 04036 05 0583 04046 05 0583 04056 05 0583 04066 05 0583 04076	 8 – 10 mm 36 – 45 mm 46 – 55 mm 56 – 65 mm 66 – 75 mm 76 – 85 mm
	face fixing with a self-tapping insert 	2 countersunk screws M8 in stainless steel 2 self-cutting inserts made of hardened steel, galvanised 2 plastic washers Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0583 00335 Dimension X Dowel length	 10 – 30 mm 34 mm

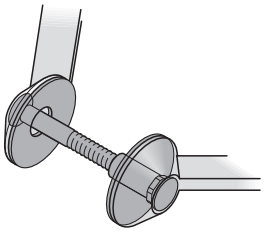
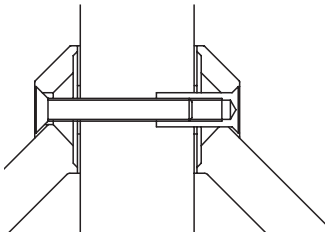
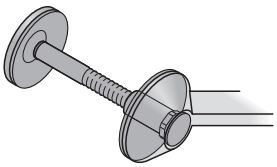
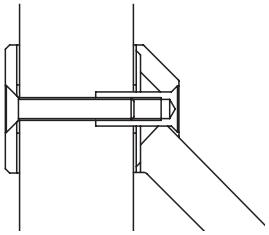
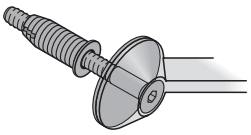
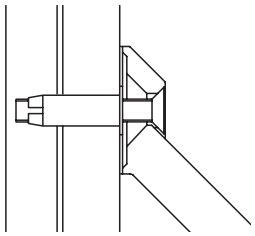


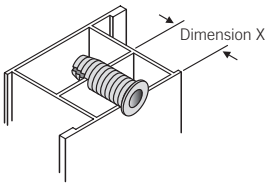
Dimension X =
chamber dimension

Door pull fixings

Door pulls

66 6620, 66 6621

	Fixing type	Fixing accessories	Order no.	
	back-to-back fixing 	2 countersunk screws M8 with sleeve nuts M8 in stainless steel 4 plastic washers Drill Ø 13 mm	05 0584 01008 Glass door 05 0584 03035 05 0584 03045 05 0584 03055 05 0584 03065 05 0584 03075	 8 – 10 mm 35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
	bolt-through fixing 	2 countersunk screws M8 with sleeve nuts M8 in stainless steel 2 washers in stainless steel 4 plastic washers Drill Ø 13 mm	05 0584 02008 Glass door 05 0584 04035 05 0584 04045 05 0584 04055 05 0584 04065 05 0584 04075	 8 – 10 mm 35 – 44 mm 45 – 55 mm 55 – 65 mm 65 – 75 mm 75 – 85 mm
	face fixing with a self-tapping insert 	2 countersunk screws M8 in stainless steel 2 self-cutting inserts made of hardened steel, galvanised 2 plastic washers Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0584 00335 Dimension X Dowel length	 10 – 30 mm 34 mm



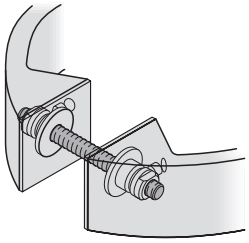
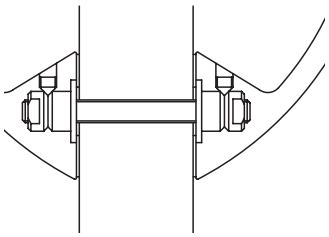
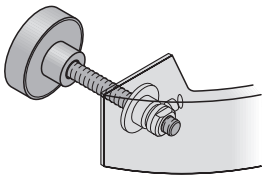
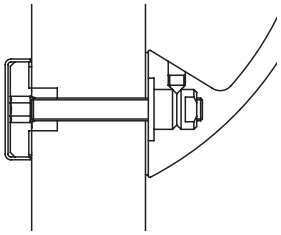
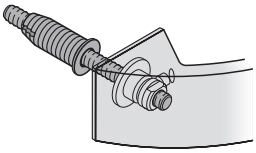
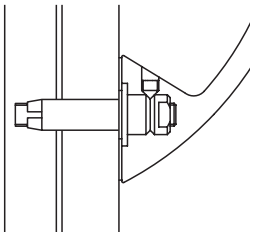
Dimension X =
chamber dimension

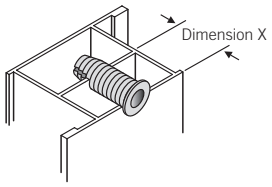
5a

Door pull fixings

Door and push/pull pad handles

61 6108, 61 6186, 61 6187, 61 6188, 61 6189,
61 6190, 61 6191, 61 6192, 61 6193, 61 6194,
61 6195, 66 6519, 66 6520, 66 6526, 66 6548

	Fixing type	Fixing accessories	Order no.
	back-to-back fixing 	2 threaded rods M8 Drill Ø 13 mm	05 0587 01008 Glass door 8 – 10 mm 05 0587 03035 35 – 54 mm 05 0587 03055 55 – 74 mm 05 0587 03075 75 – 94 mm
	bolt-through fixing 	2 threaded rods M8 2 fixing nuts with cover caps Drill Ø 13/18 mm, see page 562	05 0587 02308 Glass door 8 – 10 mm 05 0587 04335 35 – 44 mm 05 0587 04345 45 – 54 mm 05 0587 04355 55 – 64 mm 05 0587 04365 65 – 74 mm 05 0587 04375 75 – 84 mm
	face fixing with a self-tapping insert 	2 grub screws M8 2 self-cutting inserts made of hardened steel, galvanised Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0587 00335 Dimension X 10 – 30 mm Dowel length 34 mm

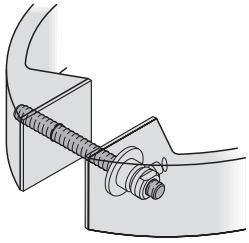
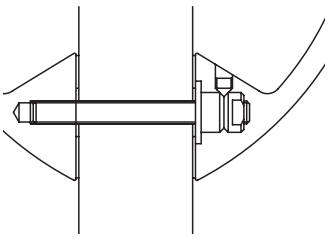
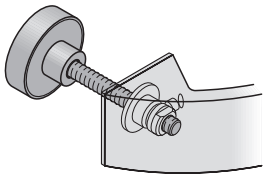
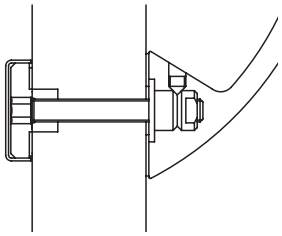
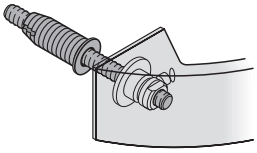
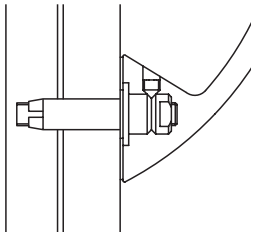


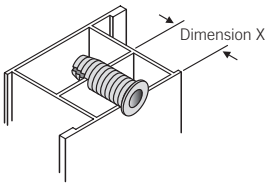
Dimension X =
chamber dimension

Door pull fixings

Door and push/pull pad handles

61 6112, 66 6642, 66 6643

	Fixing type	Fixing accessories	Order no.	
	back-to-back fixing 	2 threaded rods M6 Drill Ø 13 mm	05 0580 01208 Glass door 05 0580 03235 05 0580 03255 05 0580 03275	8 – 10 mm 35 – 54 mm 55 – 74 mm 75 – 94 mm
	bolt-through fixing 	2 threaded rods M6 2 fixing nuts with cover caps Drill Ø 13/18 mm, see page 562	05 0580 02208 Glass door 05 0580 04235 05 0580 04245 05 0580 04255 05 0580 04265 05 0580 04275	8 – 10 mm 35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
	face fixing with a self-tapping insert 	2 grub screws M6 2 self-cutting inserts made of hardened steel, galvanised Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0580 00435 Dimension X Dowel length	 10 – 30 mm 34 mm



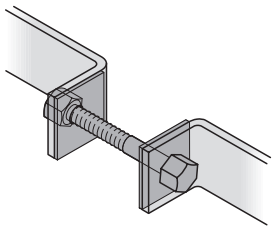
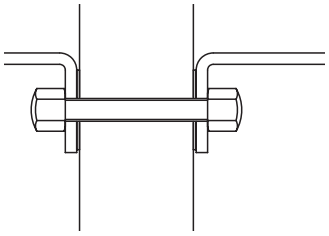
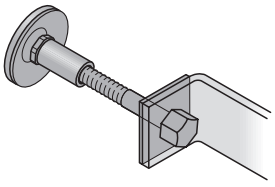
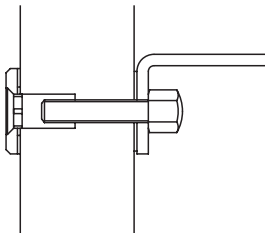
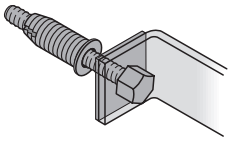
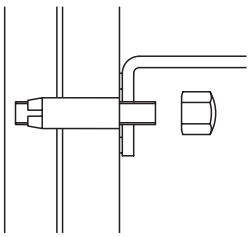
Dimension X =
chamber dimension

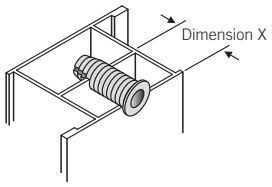
Door pull fixings

Door pull series

Modular system ht oval
Modular system ht round

66 6522, 66 6523, 66 6524, 66 6527

	Fixing type	Fixing accessories	Order no.	
	back-to-back fixing 	2 threaded rods M8 4 cap nuts M8 in stainless steel 4 plastic washers Drill Ø 13 mm	05 0585 03035 05 0585 03040 05 0585 03045 05 0585 03050 05 0585 03055 05 0585 03060 05 0585 03065 05 0585 03070 05 0585 03075 05 0585 03080	35 – 39 mm 40 – 44 mm 45 – 49 mm 50 – 54 mm 55 – 59 mm 60 – 64 mm 65 – 69 mm 70 – 74 mm 75 – 79 mm 80 – 84 mm
	bolt-through fixing 	2 threaded rods M8 2 cap nuts M8 in stainless steel 2 sleeve nuts M8 with washers in stainless steel 4 plastic washers Drill Ø 13 mm	05 0585 02035 05 0585 02045 05 0585 02055 05 0585 02065 05 0585 02075	35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
	face fixing with a self-tapping insert 	2 grub screws M8 2 cap nuts M8 in stainless steel 2 self-tapping inserts made of hardened steel, galvanised 2 plastic washers Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)	05 0585 00335 Dimension X Dowel length	 10 – 30 mm 34 mm



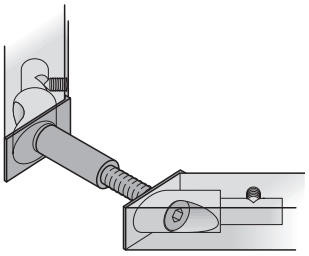
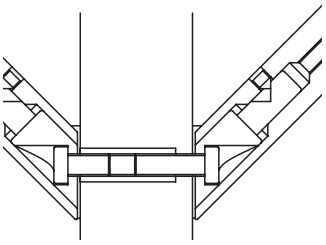
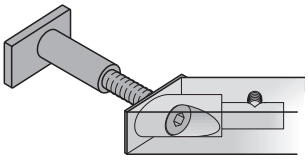
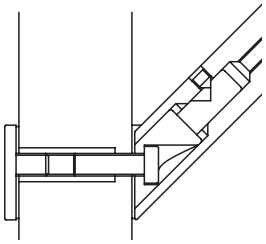
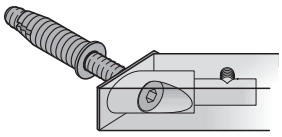
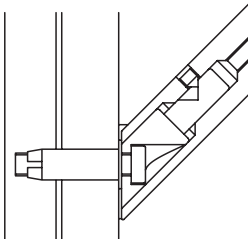
Dimension X =
chamber dimension

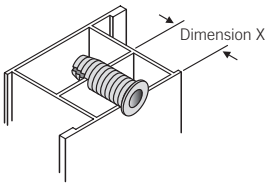
Door pull fixings

Door pull series

Modular system ht round
66 6710, 66 6711

Modular system ht oval
66 6712, 66 6713

	Fixing type	Fixing accessories	Order no.	
	back-to-back fixing 	1 cylinder screw M8 1 nut 1 plastic sleeve	05 0588 01008 Glass door	8 – 10 mm
		2 cylinder screw M8 1 threaded sleeve	05 0588 03035 05 0588 03045 05 0588 03055 05 0588 03065 05 0588 03075	35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
		Drill Ø 13 mm		
	bolt-through fixing 	1 nut 1 fixing plate 1 plastic sleeve	05 0588 02008 Glass door	8 – 10 mm
		1 cylinder screw M8 1 threaded sleeve 1 fixing plate	05 0588 04035 05 0588 04045 05 0588 04055 05 0588 04065 05 0588 04075	35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
		Drill Ø 13 mm		
	face fixing with a self-tapping insert 	1 cylinder screw M8 1 self-tapping insert made of hardened steel, galvanised	05 0588 00335 Dimension X Dowel length	10 – 30 mm 34 mm
		Drill Ø 12.5 mm (wooden), Ø 13 mm (metal/plastic doors)		



Dimension X =
chamber dimension

5a