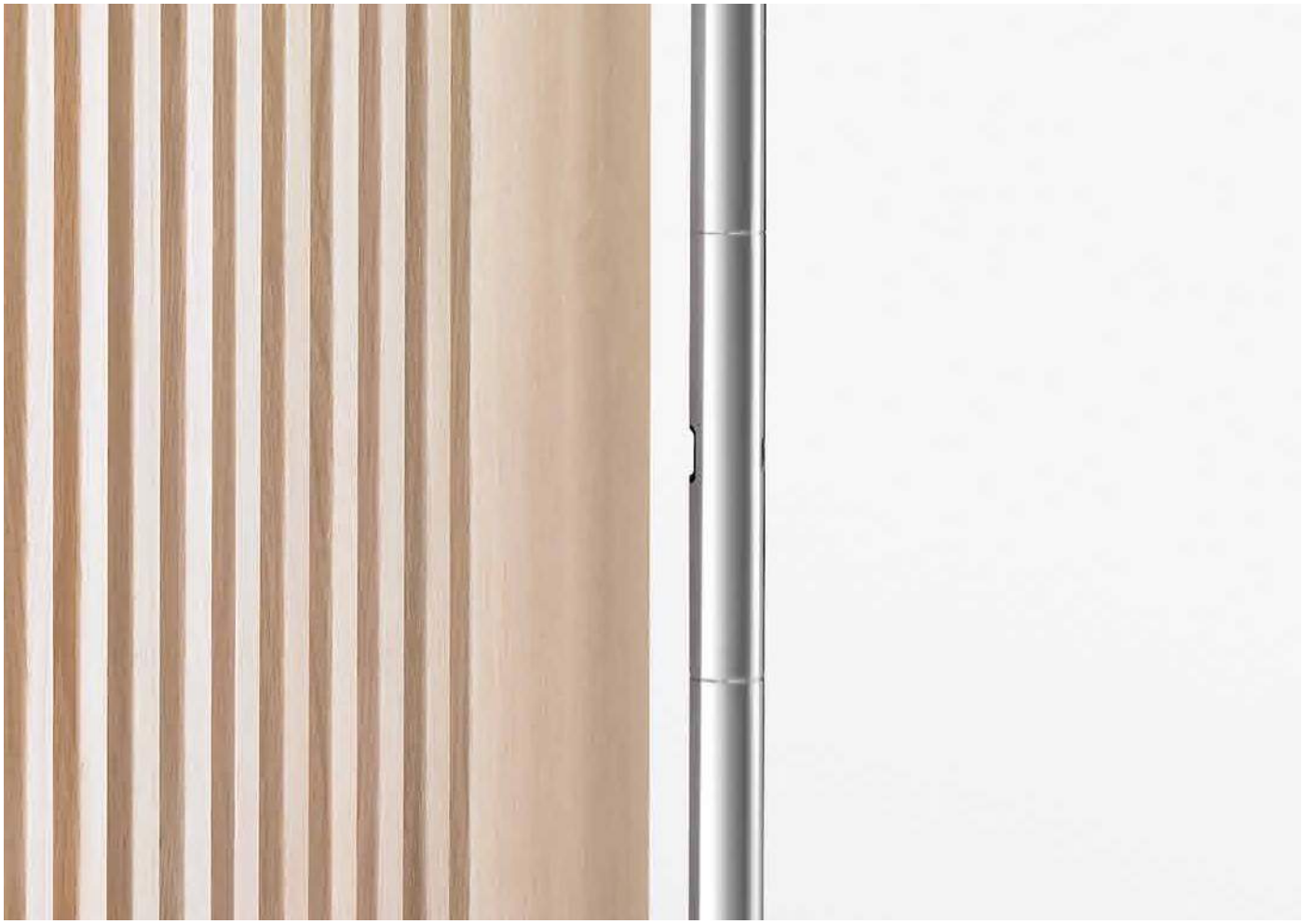

P120 LT3 Cubitron
3M 777F YF
P120 LE3

We give our all for a perfect finish, as you well know – and, going by what our specialists in the various manufacturing divisions say, no two finishes are alike. Comparably large areas need to be treated differently than significantly smaller ones, whilst round or curved parts are clearly not going to behave in the same way as flat surfaces. We have evolved a sophisticated grinding “philosophy” to take account of this. As well as involving physical input in the bulk of cases, it also calls for a certain “knack”. Whereas some colleagues are predisposed to produce geometrical shapes, there are others who are more at home with free-flowing organic forms (as Johannes Potente’s, for example). Our production staff work with no end of abrasive belts, brushes and polishing pastes and the whole process is invariably run over several stages. Test the quality of finish of the various handles stocked with your own hands and we feel sure you will agree that Stainless Steel finishes are quite a mixed bunch.



Be it in the form of classic tubular pulls round or oval in cross-section or of soberly pared-down push/pull pad handles from the S-Flat series angular or square in cross-section, FSB has the perfect design to hand for any door and taste. This section covers the full range. Besides "analog" pulls, with the Fingerscan series we also offer an impressive solution for the digital operation of doors. After all, biometrically scanning a finger for access identification purposes should ideally take place on the pull itself – in other words where the fingers grip. You can find our more about FSB's Fingerscan door-pull series with integrated biometrics technology on pages 55 ff.

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Technical information
F-Series (Fingerscan)
Angular door-pull range
S-Flat

Square. Practical. Good-looking. Angular front-door hardware from FSB.

FSB has augmented its established range of round and oval tubular pulls with a small but perfectly formed selection of pulls of angular/square cross-section.

As a result, we can now offer architects, fabricators and end-users the formal vocabulary of angular (pull) designs for main-entrance doors too. Our range of "angular" main-entrance door hardware embraces the following products:

– the new "S-Flat" push/pull pad handle range designed by that long-established master of his trade, Hartmut Weise. In the finest Bauhaus tradition, he has opted for a geometrical approach in his concept that sees every straight-cornered handle matched by a rounded variant. S-Flat handles come in a variety of dimensions as well as in either open or enclosed forms. The back of S-Flat handles features a concave pad of Technogel® that is pleasant to touch and ensures ergonomic operation. Find out more on pages 508ff.
– FSB's tried and tested ht range, a handle solution that wears its engineering on its sleeve, in a welded variant with a 35 × 35 mm handle cross-section and in lengths from 350-2,100 mm, see pages 516ff.
– angular and cranked crossbars of 25 × 25 mm cross-section – requests for custom variants and hefty bespoke lengths gladly received – Models 66 6519 and 66 6520, see page 512.
– as an alternative, crossbars of 40 × 10 mm rectangular cross-section, FSB 66 6548, likewise in bespoke lengths, see pages 514f.
– and, rounding things off fair and square, FSB's new armoured rose 73 7397, indispensable as a security accessory – tested and certified to DIN EN 18257 ES1 as an angular variant too, see page 592.

Accessories available include angular doorknobs and security hardware, turnably fixed half-sets, letter plates and intercom/bell-push plates. Our proven numbers and letters for houses also deserve a concluding mention.

Oval door-pull series

The oval designs FSB developed a decade ago are a key constituent of its range of door pulls and an alternative to traditional pulls of circular cross-section. The formula "diagonal + oval = ideal gripping" identified by FSB reduces the amount of effort required to take hold of and operate the handles on entrance doors. The oval styling offers the market a new gripping quality for eye and hand which FSB has had copyright protected. FSB now supplies almost all traditional designs in a haptic oval variant in tandem with its circular pull range.

A flattened oval pull series authored by our in-house designer Hartmut Weise echoes modern approaches to architecture. The ht kit principle has been applied to oval tubes for jobs needing to be completed quickly. It allows good solutions to be straightforwardly fabricated on site for lengths of up to 1,500 mm. For reasons of structural stability, FSB recommends opting for the variant welded at the works where lengths in excess of this are required. Welded ht handles in lengths of less than 1,500 mm are similarly obtainable.

Fingerscan door with biometrics technology

In delivering electronic functions conducive to convenience and security in equal measure, FSB demonstrated that thinking about products whilst also taking account of human habits inevitably gives rise to substantive innovations. The biometric scanning of a finger as a means of access identification would, our technicians reasoned, need to occur at the point where fingers are positioned when taking hold of a handle. They duly came up with an FSB Fingerscan door pull with unique in-built biometrics technology. What the handle is actually capable of is set out on pages 55ff.

Bronze hardware for front doors

The FSB range of bronze hardware for front doors is now a byword for the highest quality of exclusive fitments for entrance areas. It covers pulls from the ht kit (welded variant, round and oval) in lengths of up to 2,600 mm as well as classic door-pull designs 30 mm in diameter in lengths up to 1,200 mm. Rounding the range off is FSB 66 6681, a model of random length with variably positionable brackets.

Accessories include doorknobs, armoured roses and hardware, turnably fixed lever/lever half-sets (AGL®) as well as intercom/bell-push plates and letter plates.

Materials

FSB endeavours to supply its entire pull-handle range in either Aluminium, Stainless Steel or – with some standard variants – also in Bronze or Brass, with Stainless Steel being particularly recommended for heavy-duty applications. Aluminium surfaces can easily get blemished in such circumstances, though this "ageing process" in no way impairs the functioning of the handle. Owing to their tendency to corrode, Brass pulls are only offered with a waxed finish. It takes several years before a natural brown protective patina forms on such handles.

Clamping-rose fixing method

FSB's clamping-rose fixing method allows all FSB door pulls with round shanks to be tightened fast against any door face by means of an easy-to-assemble clamping rose. Visible screws are dispensed with. The radial play engineered into the assembly by FSB ensures the requisite compensatory tolerances during fitting. This fixing method is covered in greater detail on page 559.

Assembly scenario

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

In the case of through-fixing, either a pair of pulls or a single handle can be fitted. FSB has produced self-explanatory illustrations for these three fixing options – back-to-back fixing, bolt through fixing and face fixing with self-tapping threaded insert (see below).

As regards the issue of face fixing versus bolt through-fixing, FSB wishes to point out that the threaded-insert technique it adopts makes for face fixing that, as well as being aesthetically pleasing, is also sufficiently durable as a rule. This needs to be qualified, however, in the case of heavy-duty applications, (i. e. in schools, office blocks and other public institutions): here, we emphatically recommend bolt through-fixing, which ensures that the furniture remains fit for use even after years of heavy treatment, since the forces involved are absorbed on both sides of the door.

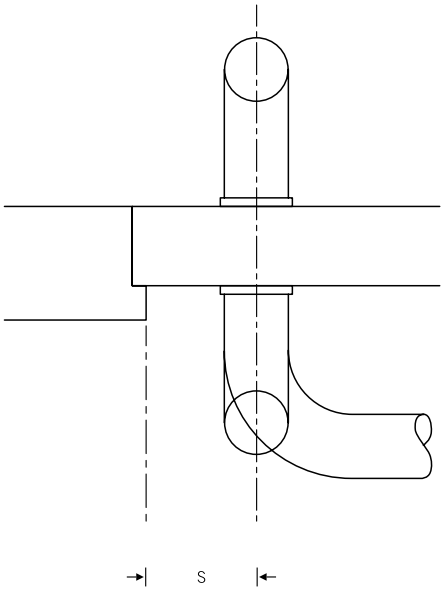
Door pulls – in pairs or singly?

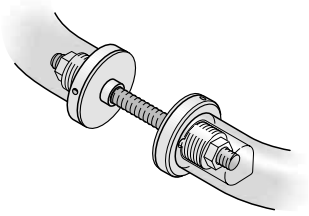
We show door pulls in pairs to facilitate an understanding of their technology and design. This allows the reverse face and geometric configuration to be seen. We do, of course, also supply door pulls as single items.

Safety clearance (S)

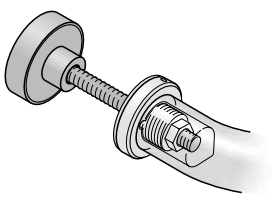
When fitting a handle to the closing or slamming face of a door, a safety clearance needs to be allowed for between the handle and the edge of the door and the jamb. The assembly scenario is made more readily comprehensible by the sketch below.

Ideally, the safety clearances as recommended by FSB should be adhered to. Conditions at the point of assembly may, however, provide a case for acting otherwise.

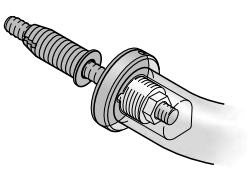




Fixing A
back-to-back



Fixing B
bolt through-fixing



Fixing C
face fixing with self-tapping threaded insert

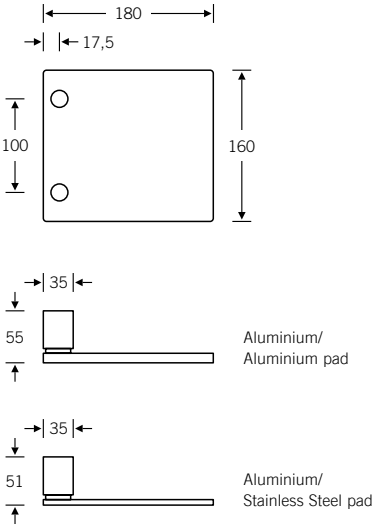
Push/pull pad handles

Technical information page 558ff.

61 6108

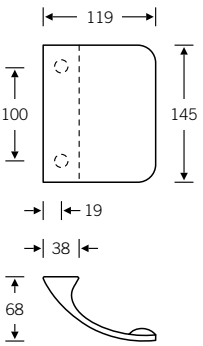
Available in the following permutations:
Bracket: Aluminium | Pad: Aluminium
Bracket: Aluminium | Pad: Stainless Steel

M8 fixing



61 6112

M6 fixing



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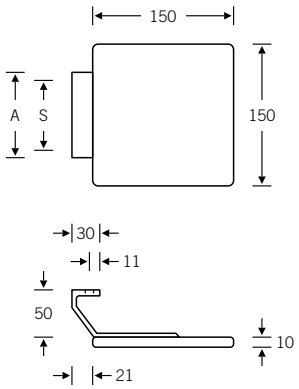
Fixing accessories, see page 770f.

Technical information page 558ff.

61 6181

61 6181 00062

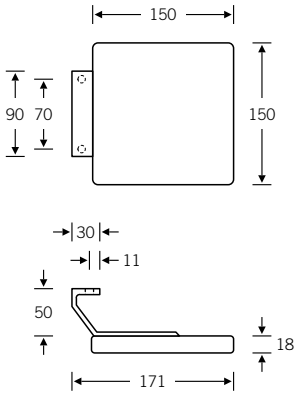
Dimension A = 90 mm
Screw centres S = 70 mm



61 6184

61 6184 00062

Pad in Black Anodised Aluminium



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fsb.de/616184

Screw holes Ø 8.5 mm (base), engravings for 61 6181, see page 396f.

Fixing accessories, see page 770f.

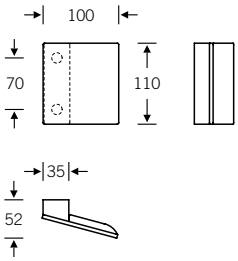
Push/pull pad handles
Series S-Flat

Technical information page 558 ff.

61 6186

Brackets Silver-Grey Powder-Coated

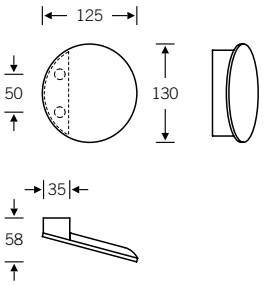
M8 fixing



61 6191

Brackets Silver-Grey Powder-Coated

M8 fixing



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Design: Hartmut Weise

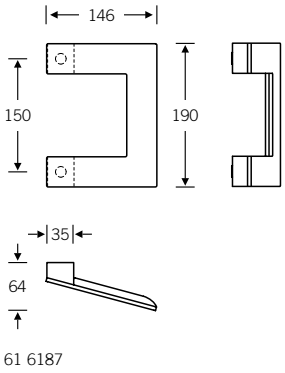
Push/pull pad handles
Series S-Flat

Technical information page 558 ff.

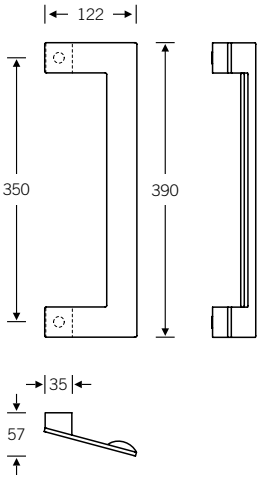
61 6187 | 61 6188

Straight-cornered, open
Brackets Silver-Grey Powder-Coated

M8 fixing



61 6187

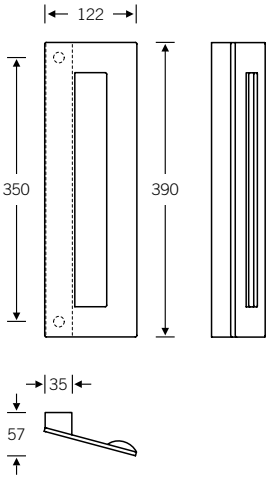


61 6188

61 6190

Straight-cornered, enclosed
Brackets Silver-Grey Powder-Coated

M8 fixing



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fsb.de/616190

Design: Hartmut Weise

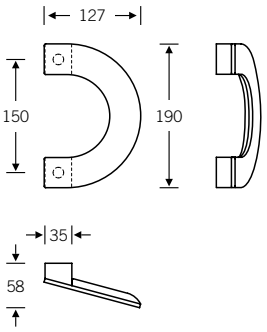
Push/pull pad handle
Series S-Flat

Technical information page 558 ff.

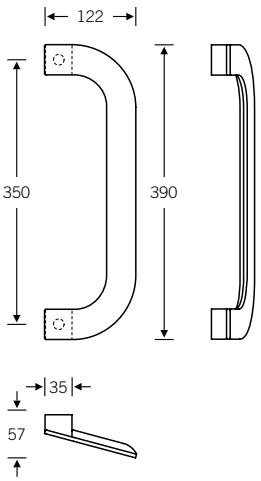
61 6192 | 61 6193

Round-cornered, open
Brackets Silver-Grey Powder-Coated

M8 fixing



61 6192



61 6193

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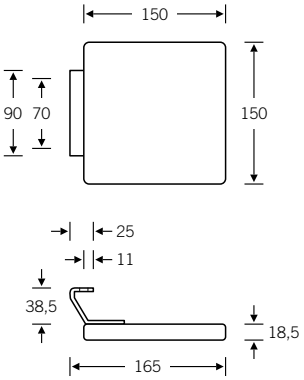
Design: Hartmut Weise

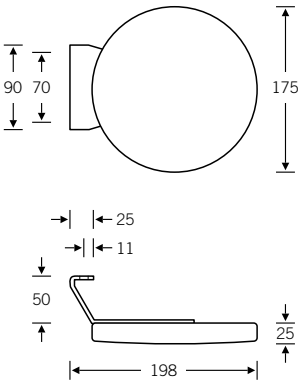
61 6254

61 6254 00062



61 6268

61 6268 00000



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Screw holes Ø 8.5 mm (base), for engravings see page 396f.

Fixing accessories, see page 770f.

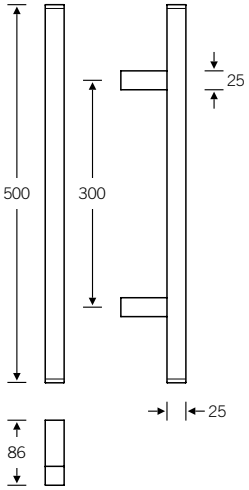
Door pulls
angular

Technical information page 558ff.

66 6519

Handle cross-section ☐ 25 × 25 mm
M8 fixing
Standard length 500 mm (also in bespoke lengths, see form across the page)
Safety clearance S = 53 mm
(see page 505)

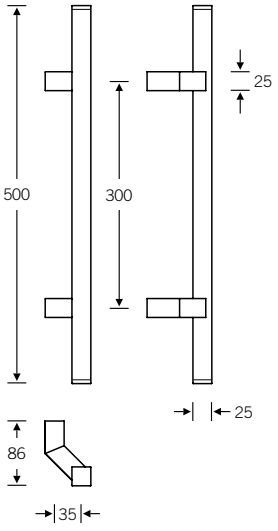
shown left: bespoke length



66 6520

Handle cross-section ☐ 25 × 25 mm
M8 fixing
Standard length 500 mm (also in bespoke lengths, see form across the page)
Safety clearance S = 46 mm
(see page 505)

shown left: bespoke length



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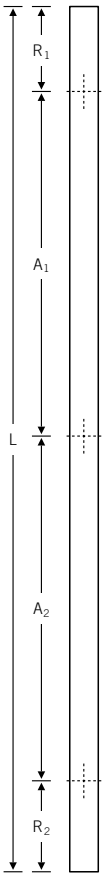
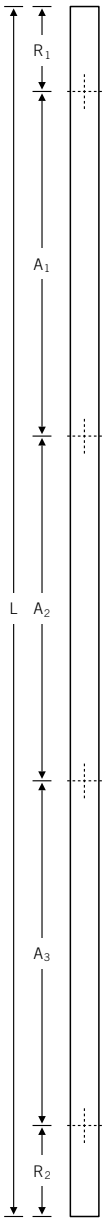
Form





Please use a copy of this page when ordering door-pull series 66 6519 or 66 6520 of variable length:

First tick the box for the variant desired, then enter details of quantities required and overall length in the table below.

Please also indicate bracket spacings and the edge spacing in mm. Brackets spacings should not exceed 1,200 mm on grounds of stability.

☐ 66 6519 099 (☐ 25 mm)

☐ 66 6520 099 (☐ 25 mm)

Quant.	Length overall L	Bracket spacing A_1	A_2	A_3	Edge spacing* R_1	R_2	Fixing type

* min. 30 mm, max. 350 mm

Door pull
angular

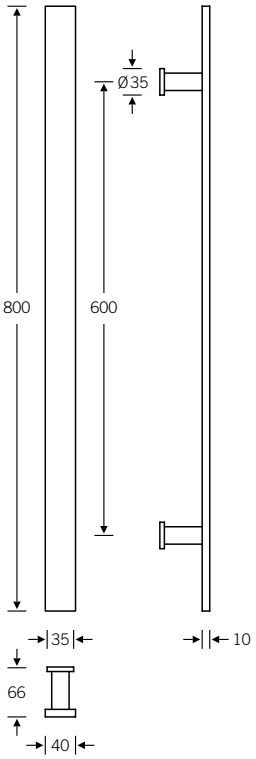
Technical information page 558 ff.

66 6548

to match FSB 1003

Safety clearance S = 55 mm
(see page 505)

Handle cross-section 40 × 10 mm



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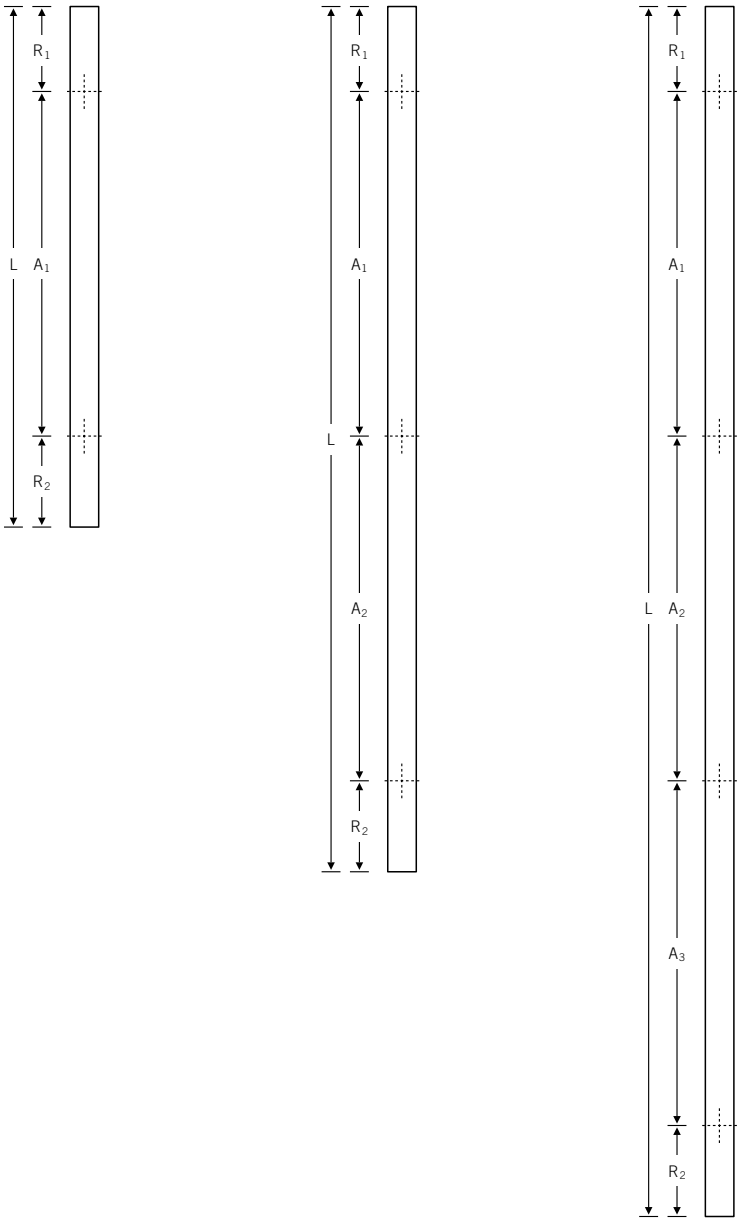
Form



Please use a copy of this page when ordering door-pull series 66 6548 of variable length:

Enter details of quantities required and overall length in the table below. Then indicate bracket spacings and the edge spacing in mm. Brackets spacings should not exceed 600 mm and the edge spacing 250 mm on grounds of stability.

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

5a

Quant.	Length overall L	Bracket spacing A_1	A_2	A_3	Edge spacing* R_1	R_2	Fixing type

* min. 30 mm, max. 250 mm

Door pull
ht angular welded

66 6527

350-2,100 mm square-section tube
Rectangular tube ☐ 35 × 35 × 2.5 mm

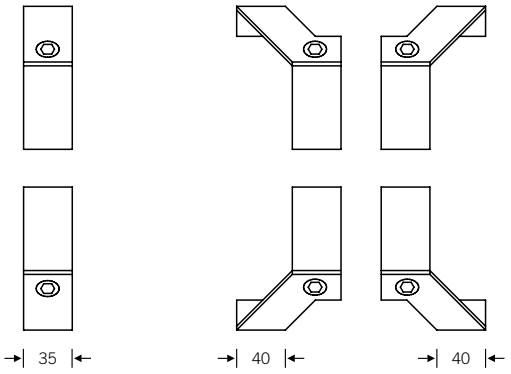
fsb.de/666527

66 6527 is a works-welded version of angular cross-section based on the “ht kit system” and “ht welded” concepts (pages 528 ff. and 553 ff.). FSB manufactures the 66 6527 door pull to order in A Dimensions of from 350 mm to a maximum of 2,100 mm.

The two bracket variants for straight or cranked pull designs have defined dimensions. When ordering, please also advise Dimension A defining the distance between bracket fixing centres. The overall length of the pull is achieved by adding the dimensions 2 × 20 mm (borehole distance inclusive of material thickness).

It is necessary when fitting ht angular welded hardware to bear structural requirements and conditions on site in mind. These handles are no substitute for gymnastic bars and must not be used as safety barriers at hazardous building openings. If you are in any doubt, please consult the architect or structural engineer. Details of fixing methods are to be found on pages 558 ff.

45 . . 46 . . RH 56 . . LH



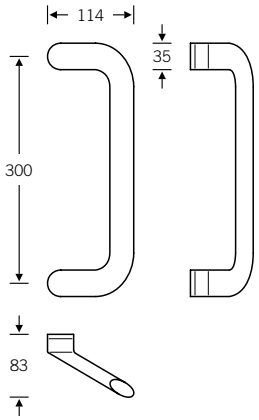
. . 45 . . 46 RH . . 56 LH

Door pulls
oval

Technical information page 558ff.

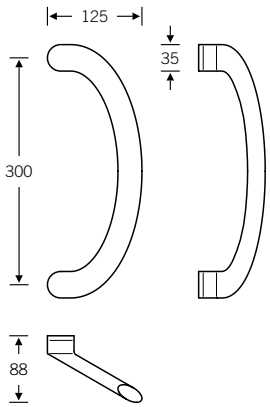
66 6533

Handle cross-section Ø 35 × 17.5 mm



66 6534

Handle cross-section Ø 35 × 17.5 mm



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fsb.de/666534

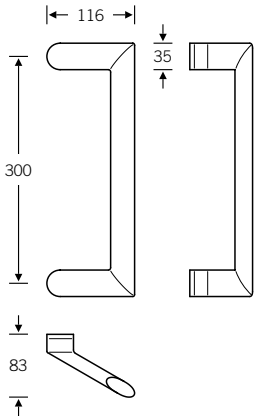
Design: Hartmut Weise

Door pulls
oval

Technical information page 558 ff.

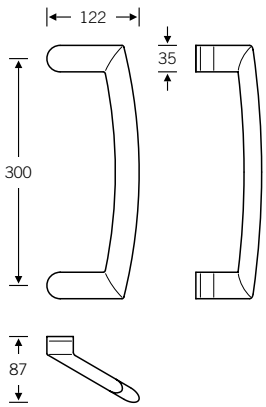
66 6535

Handle cross-section Ø 35 × 17.5 mm



66 6536

Handle cross-section Ø 35 × 17.5 mm



fsb.de/666535
fsb.de/666536

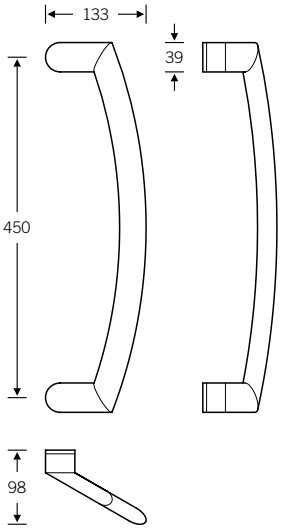
Design: Hartmut Weise

Door pulls
oval

Technical information page 558 ff.

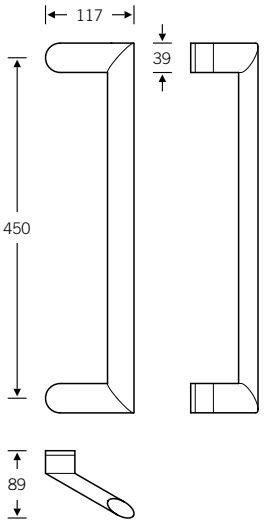
66 6537

Handle cross-section Ø 39 × 20 mm



66 6538

Handle cross-section Ø 39 × 20 mm



fsb.de/666537
fsb.de/666538

Design: Hartmut Weise

Door pull
oval

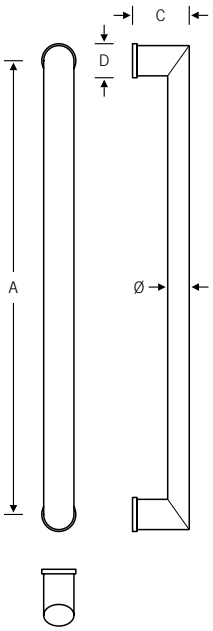
Technical information page 558 ff.

66 6542

Product Code	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 505)



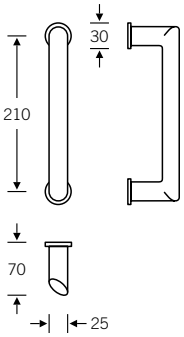
fsb.de/666542

Door pulls
oval

Technical information page 558ff.

66 6610

M6 fixing
Safety clearance S = 45 mm
(see page 505)



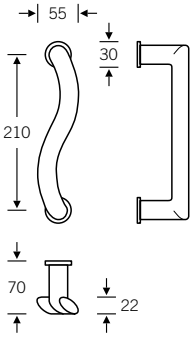
66 6611

66 6611 02485 (RH) I 66 6611 02585 (LH)

M6 fixing
Safety clearance S = 60 mm
(see page 505)

shown here: RH* viewed from the outside
for handing details, see page 266f.

* as required for DIN LH opening inwards



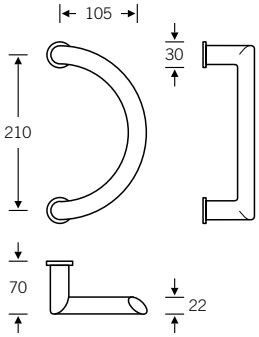
fsb.de/666610
fsb.de/666611

Design: Hartmut Weise

Door pulls
oval

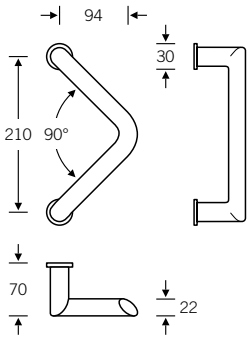
66 6612

M6 fixing
Safety clearance S = 48 mm
(see page 505)



66 6613

M6 fixing
Safety clearance S = 48 mm
(see page 505)



fsb.de/666612
fsb.de/666613

Design: Hartmut Weise

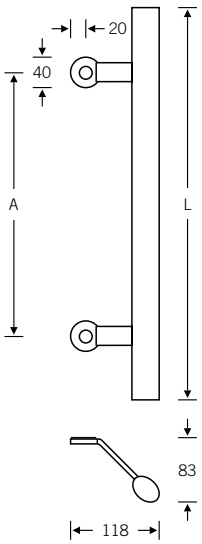
Door pull
oval

Technical information page 558 ff.

66 6616

Product Code	A	Ø	L
66 6616 035	350	40 × 28	550
66 6616 045	450	40 × 28	650
66 6616 099	451–2,100	40 × 28	var.

Handle cross-section Ø 40 × 28 mm

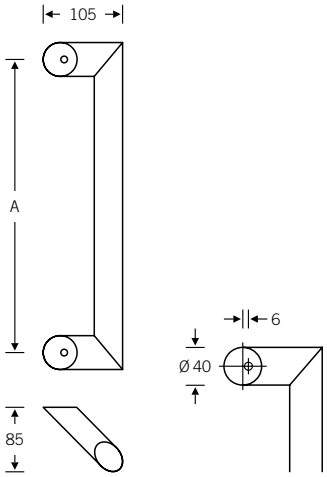


fsb.de/666616

FSB recommends spacing brackets no more than 1,200 mm apart.

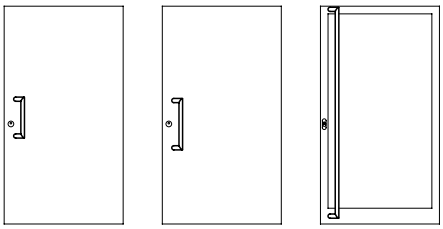
Door pulls
oval

66 6635



Product Code	A	Ø
66 6635 038	350	40 × 28
66 6635 045	450	40 × 28
66 6635 099	451–2,100	40 × 28

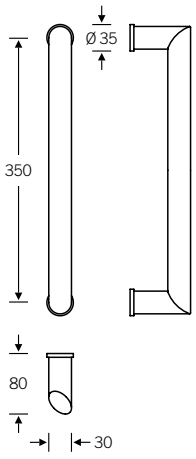
FSB's Oval series was inaugurated with door-pull model FSB 66 6635. Its easy-grip oval tube (Ø 40 × 28 mm) was to be ergonomically aligned in such a way that it could be safely and purposefully taken hold of. This objective was achieved by welding handle and brackets together to form mitred joints. The upshot contrasted starkly with the gentle curves of the handle design incorporating round tubes.



66 6650

Product Code	A	Ø
66 6650 038	350	36 × 22
66 6650 099	351–1200	36 × 22

M8 fixing
Safety clearance S = 49 mm
(see page 505)



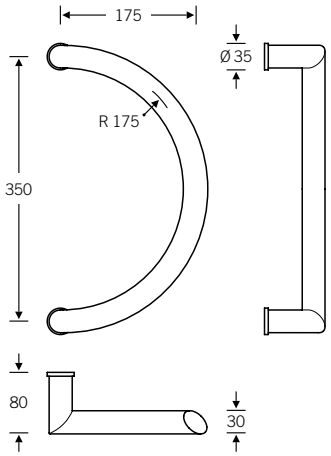
fsb.de/666635
fsb.de/666650

Door pull
oval

Technical information page 558ff.

66 6652

Handle cross-section Ø 36 × 22 mm
M8 fixing
Safety clearance S = 53 mm
(see page 505)



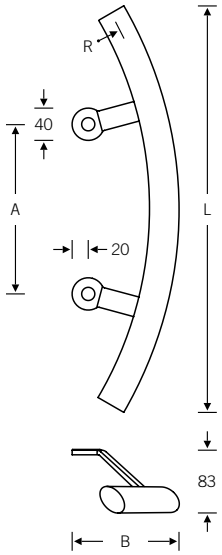
fsb.de/666652

Door pull
oval

Technical information page 558 ff.

66 6675

Product Code	A	Ø	R	B	L
66 6675 021	210	40 × 28	485	132	504
66 6675 035	350	40 × 28	1,420	129	745

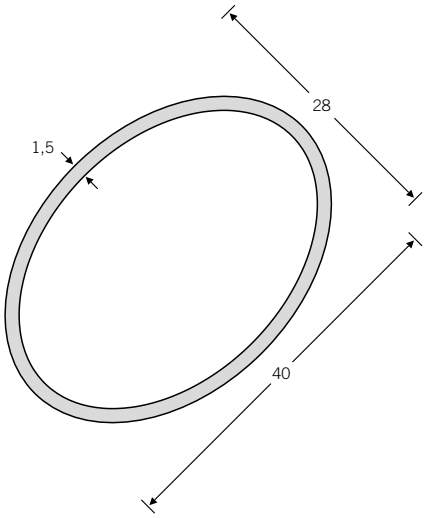


fsb.de/666675

Door pull
ht oval welded

Technical information page 558ff.

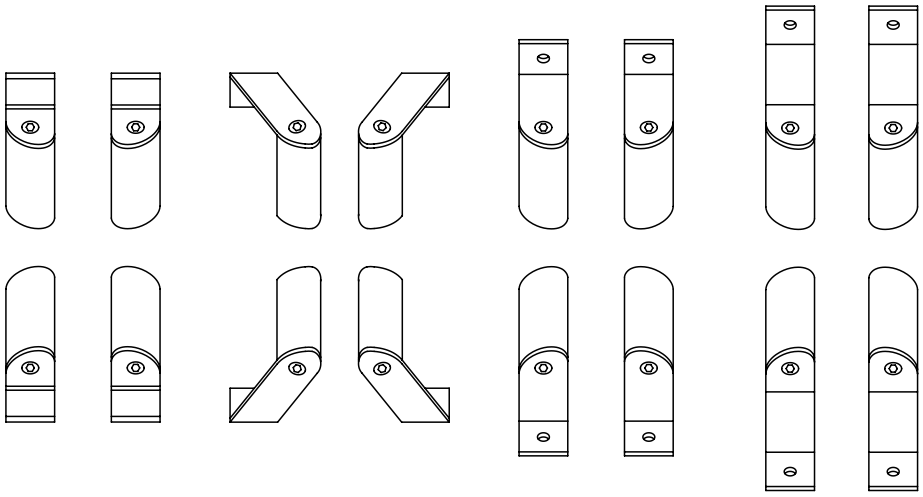
66 6524



Lengths from 1,000–2,100 mm
Tube 28 × 40 × 1.5 mm

66 6524 is a works-welded variant incorporating components from the ht oval kit (see next page). It can be used as a pull model in its own right from A Dimensions of 1,000 mm upwards and is also recommended on grounds of stability for A Dimensions of from 1,500–2,100 mm.

45 . . RH | 55 . . LH | 46 . . RH | 56 . . LH | 47 . . RH | 57 . . LH | 48 . . RH | 58 . . LH



. . 45 RH | . . 55 LH | . . 46 RH | . . 56 LH | . . 47 RH | . . 57 LH | . . 48 RH | . . 58 LH

Pulls in the welded series FSB 66 6524 are made to order. To this end, please specify the bracket combination desired citing the relevant drawings and their numbers (e. g. FSB 66 6524 4545). Please also advise Dimension A, the distance between bracket fixing centres. We will then determine the pull's tube length by either adding or subtracting the differential dimensions given on the following page prior to welding the parts together at the works.

We only manufacture the bronze versions of FSB 66 6524 with the bracket combination 45/55 or 46/56 as a rule.

fsb.de/666524

It is necessary when assembling ht oval hardware (either oneself or using the works-welded variant) to bear structural requirements and conditions on site in mind. These handles are no substitute for gymnastic bars and must not be used as safety barriers at hazardous building openings. If you are in any doubt, please consult the architect or structural engineer. Details of fixing methods are to be found on pages 558ff.

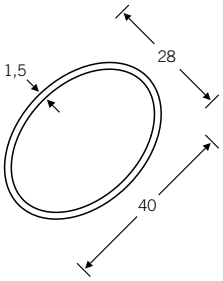
Door pull
ht oval kit system

Technical information page 558 ff.

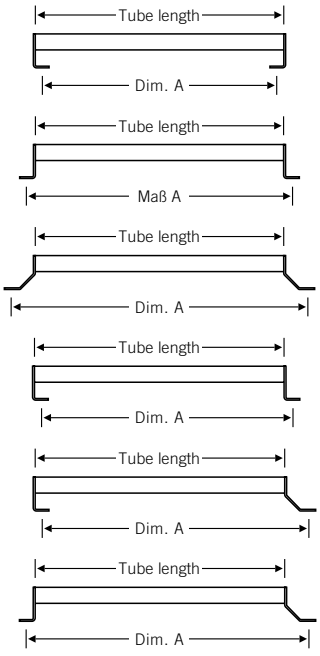
66 6802

Lengths up to 1,500 mm
Tube 28 × 40 × 1.5 mm
Stock length supplied 3,000 mm

The ht oval kit system of tubes and companion brackets enables grabrail systems, handrails, safety rails etc. to be cut to size and assembled on site, using suitable tools, for A Dimensions of up to 1,500 mm. We recommend works-welded variant FSB 66 6524 for A Dimensions of 1,500 mm upwards, see previous page.



Cut-to-size dimensions and bracket combinations



66 6735 + 66 6735
66 6736 + 66 6736

Dim. A + 32 mm = Tube length
Dim. A + 40 mm = Length overall

66 6737 + 66 6737

Dim. A – 40 mm = Tube length
Dim. A + 30 mm = Length overall

66 6738 + 66 6738

Dim. A – 108 mm = Tube length
Dim. A + 30 mm = Length overall

66 6735 + 66 6737

Dim. A – 4 mm = Tube length
Dim. A + 35 mm = Length overall

66 6735 + 66 6738

Dim. A – 38 mm = Tube length
Dim. A + 35 mm = Length overall

66 6737 + 66 6738

Dim. A – 74 mm = Tube length
Dim. A + 30 mm = Length overall

(Length overall including brackets)

The terms “tube length” and “Dimension A” have an important bearing on manufacturing, fixing and ordering. Dimension A defines the distance between bracket fixing centres. Tube length is arrived at by adding/subtracting the differential dimensions given alongside to/from Dimension A.

FSB recommends reinforcing ht-oval-kit pulls fitted to heavily frequented doors with the aid of the dedicated accessories we supply (see page 531).

fsb.de/666802

It is necessary when assembling ht oval hardware (either oneself or using the works-welded variant) to bear structural requirements and conditions on site in mind. These handles are no substitute for gymnastic bars and must not be used as safety barriers at hazardous building openings. If you are in any doubt, please consult the architect or structural engineer. Details of fixing methods are to be found on page 558 ff.

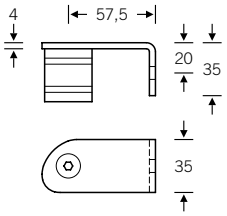
Door-pull brackets
ht oval kit system

Technical information page 558 ff.

66 6735

66 6735 004 (RH) | 66 6735 005 (LH)

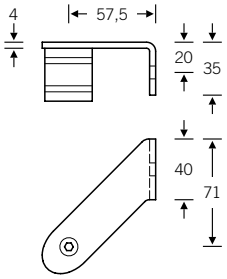
In-line bracket,
strap angled 90° inwards,
to suit oval tube Ø 40 × 28 × 1.5 mm



66 6736

66 6736 014 (RH) | 66 6736 015 (LH)

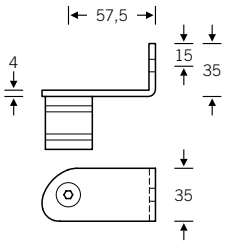
Bracket with 45° crank,
strap angled 90° inwards,
to suit oval tube Ø 40 × 28 × 1.5 mm



66 6737

66 6737 004 (RH) | 66 6737 005 (LH)

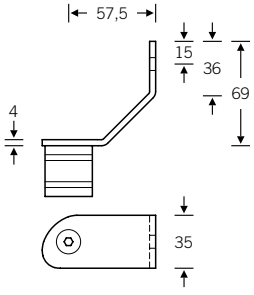
In-line bracket,
strap angled 90° outwards,
to suit oval tube Ø 40 × 28 × 1.5 mm



66 6738

66 6738 004 (RH) | 66 6738 005 (LH)

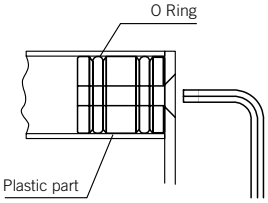
Bracket for swing doors,
to suit oval tube Ø 40 × 28 × 1.5 mm



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

Borehole Ø 8.5 mm
Safety clearance S = 52 mm
(see page 505)

all examples shown: RH



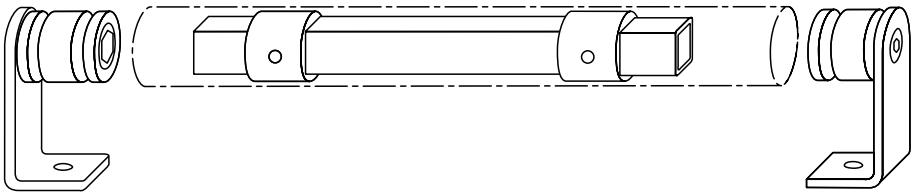
Once the tube has been cut to size (Dimension A +/- differential dimension), the expansion plugs for the brackets selected are inserted into the two ends of the tube and activated by screw action at the top.

Door-pull accessories
ht oval kit system

Technical information page 558 ff.

FSB recommends reinforcing pulls from the ht oval kit fitted to heavily frequented doors with the aid of the accessories set out below – or, even better, opting for the works-welded variant FSB 66 6524 (see page 528).

How to proceed: cut hollow steel bar to a length equal to that of the pull tube minus 100 mm. Slide spacer sleeves over the bar at intervals of 350 mm and secure. Insert the assembly into the handle and fit the hardware.

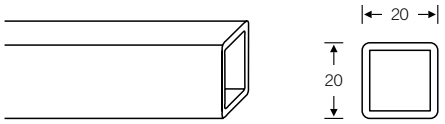


66 6801

hot galvanised hollow steel bar

66 6801 02020

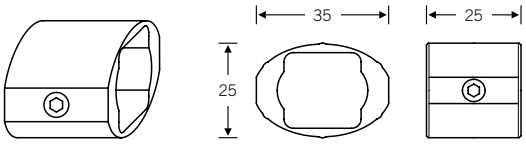
20 × 20 × 2 mm
Stock length supplied 3,000 mm



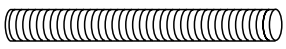
66 6739

Plastic

Spacing sleeve with securing screw



05 03..



05 0313 00880 (M8 × 80 mm)
threaded stud

05 0316 00840 (M8)
headless wood screw

05 0320 00800 (M8)
Stainless Steel dome nut

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

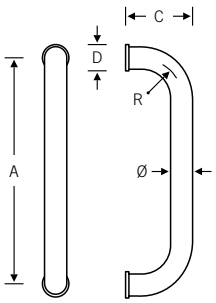
Door pull
round

Technical information page 558ff.

66 6602

Product Code	A	Ø	R	C	D	S
66 6627 037	200	20	25	75	30	45
66 6627 040	400	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	200–1,200	25	40	80	35	48
66 6602 099	300–1,200	30	55	90	35	51
66 6603 099	300–1,200	35	60	95	45	56
66 6604 099	350–1,200	40	60	105	45	65

Bronze in Ø 25 mm (66 6670) and 30 mm (66 6602) only



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

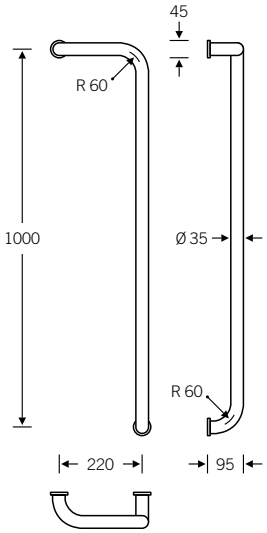
S | Safety clearance (see page 505)

66 6506

66 6506 065 (RH) | 66 6506 075 (LH)

Handle cross-section Ø 35 mm
M8 fixing

shown here: RH viewed from the outside

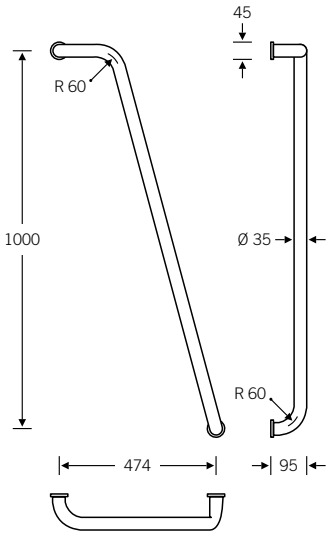


66 6507

66 6507 065 (RH) | 66 6507 075 (LH)

Handle cross-section Ø 35 mm
M8 fixing

shown here: RH viewed from the outside



fsb.de/666506
fsb.de/666507

Safety clearance S = 47 mm (see page 505)
For handing details, see page 266 f.

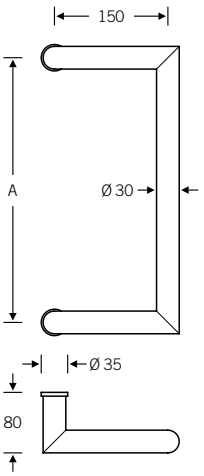
Door pull
round

Technical information page 558ff.

66 6514

Product Code	A	Ø
66 6514 038	350	30
66 6514 045	450	30

M8 fixing
Safety clearance S = 55 mm
(see page 505)



fsb.de/666514

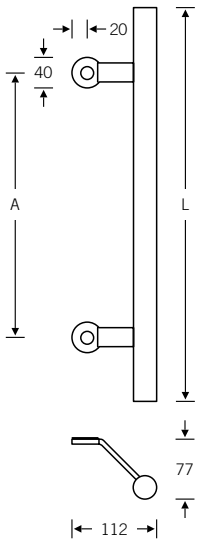
Door pull
round

Technical information page 558 ff.

66 6615

Product Code	A	Ø	L
66 6615 035	350	30	550
66 6615 045	450	30	650
66 6615 099	451–2,100	30	var.

Handle cross-section Ø 30 mm



fsb.de/666615

FSB recommends spacing brackets no more than 1,200 mm apart.

Door pull
round

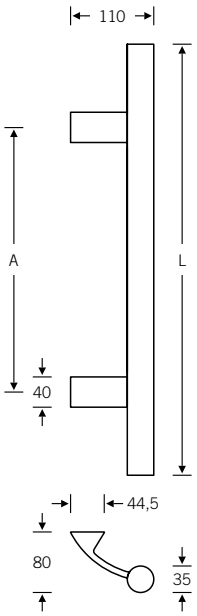
Technical information page 558ff.

66 6526

Product Code	A	L
66 6526 035	350	570
66 6526 045	450	670

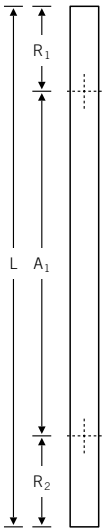
Handle cross-section Ø 35 mm

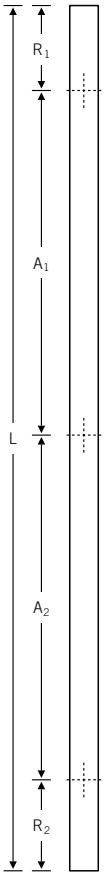
Brackets Silver Anodised Aluminium

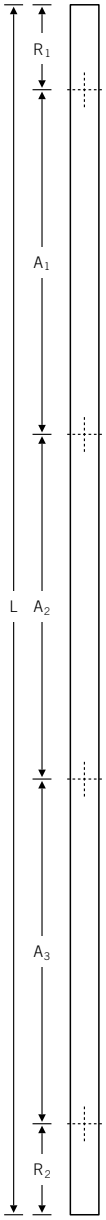


fsb.de/666526

Form



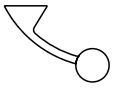




Please use a copy of this page when ordering door-pull series 66 6526 of variable length:

Enter details of quantities required and overall length in the table below. Then indicate bracket spacings and the edge spacing in mm. Brackets spacings should not exceed 1,200 mm on grounds of stability.

66 6526 (Ø 35 mm)



5a

Quant.	Length overall L	Bracket spacing A_1	A_2	A_3	Edge spacing* R_1	R_2	Fixing type

* min. 40 mm, max. 350 mm

Door pulls
round

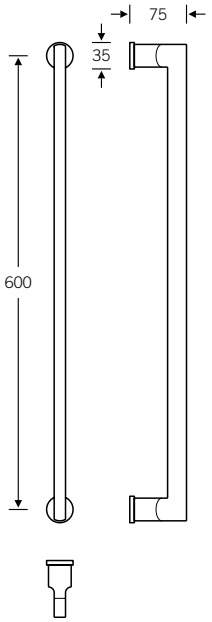
Technical information page 558ff.

66 6540

to match FSB 1035

Safety clearance S = 45 mm
(see page 505)

Handle cross-section Ø 15 × 25 mm

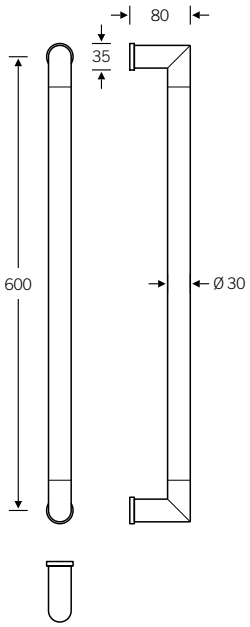


66 6541

to match FSB 1077

Grip Stainless Steel, knee sections
Aluminium

Safety clearance S = 51 mm
(see page 505)



fsb.de/666540
fsb.de/666541

Door pull
round

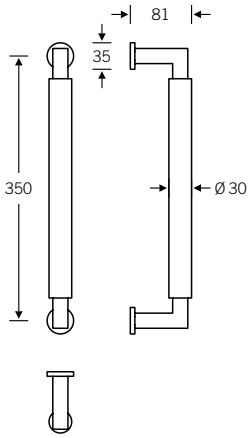
Technical information page 558 ff.

66 6546

to match FSB 1102

Bespoke lengths with A Dimensions of up to 1,200 mm suppliable

Safety clearance S = 51 mm
(see page 505)



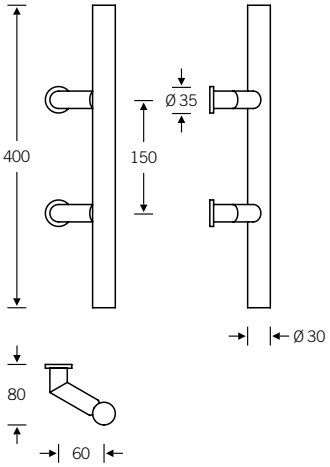
fsb.de/666546

Door pull
round

Technical information page 558 ff.

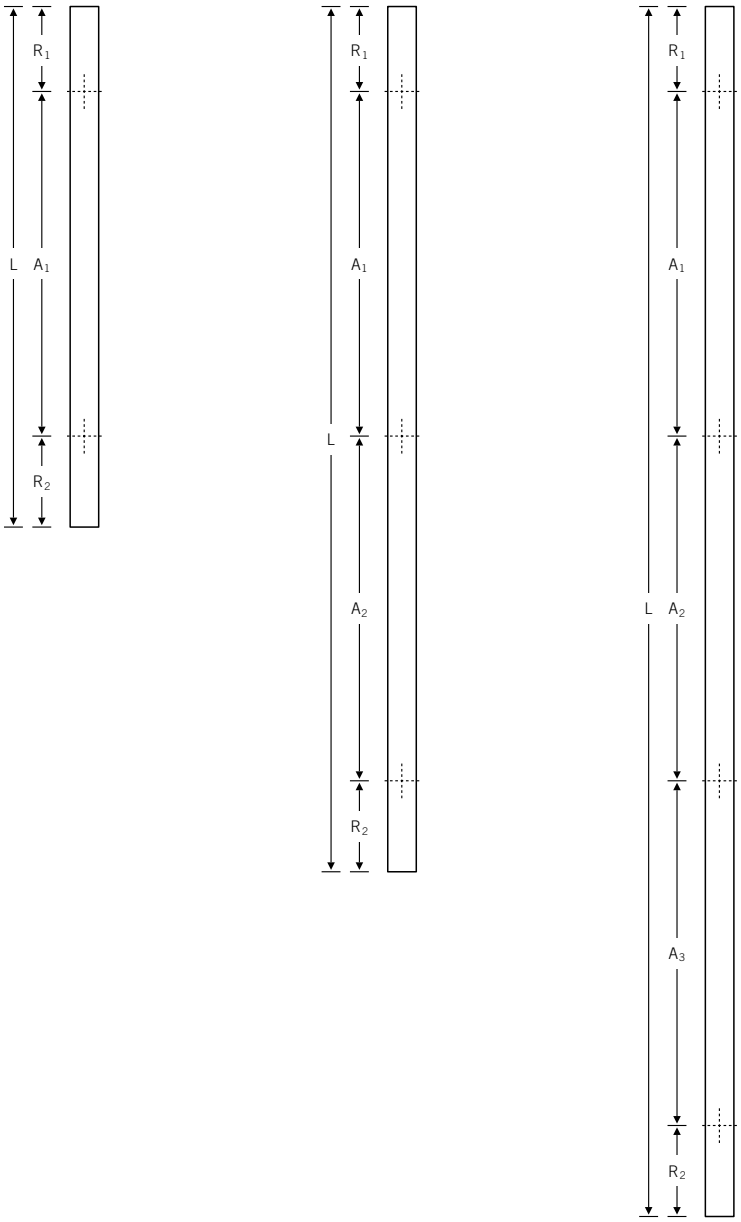
66 6630

Handle cross-section Ø 30 mm
M8 fixing
Standard length 400 mm (also in bespoke lengths, see form across the page)



fsb.de/666630

Form



Please use a copy of this page when ordering door-pull series 66 6630 of variable length:

First tick the box for the diameter variant desired, then enter details of quantities required and overall length in the table below.

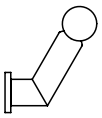
Please also indicate bracket spacings and the edge spacing in mm. Brackets spacings should not exceed 1,200 mm on grounds of stability.

5a

☐ 66 6630 (Ø 30 mm)

☐ 66 6531 (Ø 35 mm)

☐ 66 6532 (Ø 40 mm)



Quant.	Length overall L	Bracket spacing A_1	A_2	A_3	Edge spacing* R_1	R_2	Fixing type

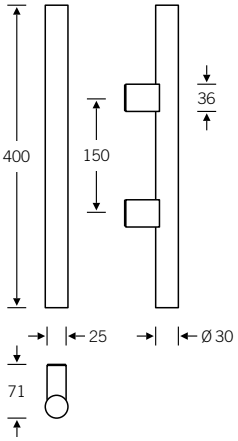
* min. 30 mm, max. 350 mm

Door pulls
round

Technical information page 558 ff.

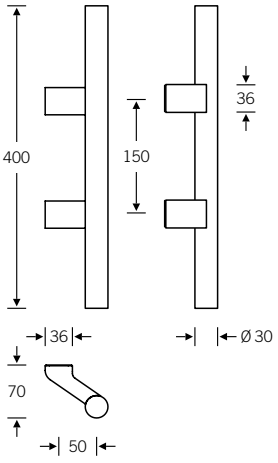
66 6642

Handle cross-section Ø 30 mm
Brackets Silver Anodised Aluminium
Grip Aluminium or Stainless Steel
Standard length 400 mm
M6 fixing
Safety clearance S = 38 mm
(see page 505)



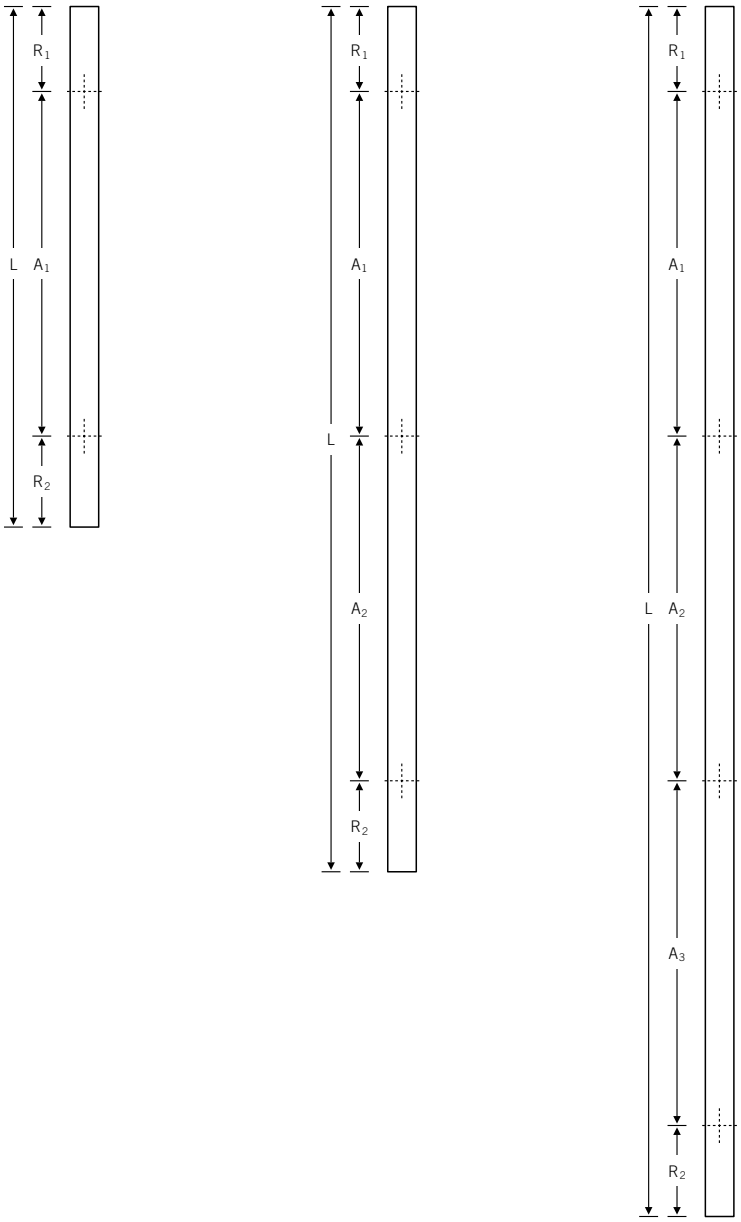
66 6643

Handle cross-section Ø 30 mm
Brackets Silver Anodised Aluminium
Grip Aluminium or Stainless Steel
Standard length 400 mm
M6 fixing



fsb.de/666642
fsb.de/666643

Form



Please use a copy of this page when ordering door-pull series 66 6642 or 66 6643 of variable length:

First tick the box for the variant desired, then enter details of quantities required and overall length in the table below.

Please also indicate bracket spacings and the edge spacing in mm. Brackets spacings should not exceed 1,200 mm on grounds of stability.

☐ 66 6642 099 (Ø 30 mm)

☐ 66 6643 099 (Ø 30 mm)

Quant.	Length overall L	Bracket spacing A_1	A_2	A_3	Edge spacing* R_1	R_2	Fixing type

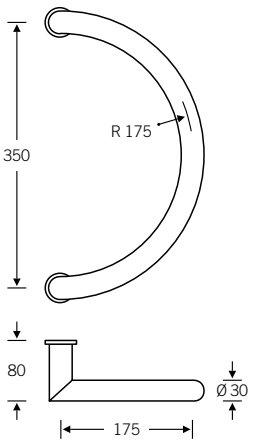
* min. 30 mm, max. 350 mm

Door pull
round

Technical information page 558 ff.

66 6653

Handle cross-section Ø 30 mm
M8 fixing
Safety clearance S = 55 mm
(see page 505)



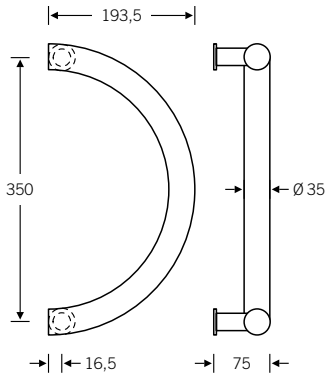
fsb.de/666653

Door pull
round

Technical information page 558 ff.

66 6655

Handle cross-section Ø 35 mm
M8 fixing
Safety clearance S = 55 mm
(see page 505)



fsb.de/666655

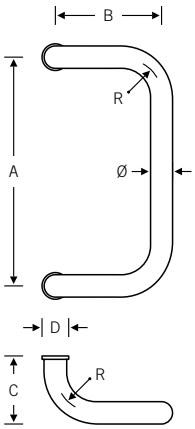
Door pull
round

Technical information page 558ff.

66 6662

Product Code	A	Ø	R	B	C	D	S
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	200–1,200	25	40	100	80	35	42
66 6662 099	300–1,200	30	55	140	90	35	43
66 6663 099	300–1,200	35	60	140	95	45	45
66 6664 099	350–1,200	40	60	150	120	45	52

Bronze in Ø 30 mm (66 6662 038) only



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

S | Safety clearance (see page 505)

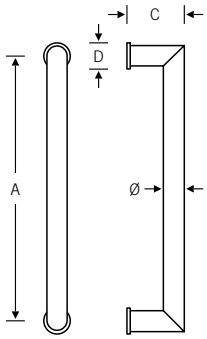
Door pull
round

Technical information page 558 ff.

66 6669

Product Code	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	Bespoke length	30			
66 6609 099	Bespoke length	40			

Bespoke lengths with A Dimensions up to 1,200 mm
in Ø 30, 35 and 40 mm
Bronze in Ø 30 mm (66 6669 038) only
M8 fixing



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

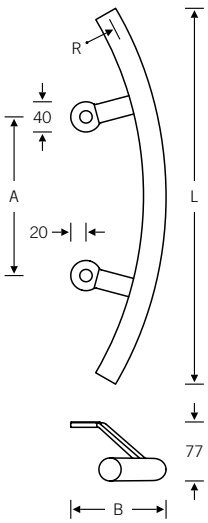
S | Safety clearance (see page 505)

Door pull
round

Technical information page 558ff.

66 6674

Product Code	A	Ø	R	B	L
66 6674 021	210	30	485	126	497
66 6674 035	350	30	1420	123	742



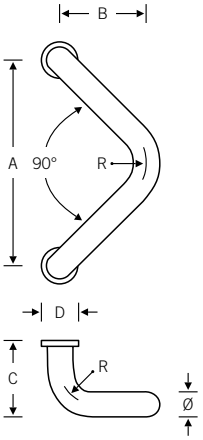
fsb.de/666674

Door pull
round

Technical information page 558 ff.

66 6679

Product Code	A	Ø	R	B	C	D	S
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



fsb.de/666623
fsb.de/666624
fsb.de/666679

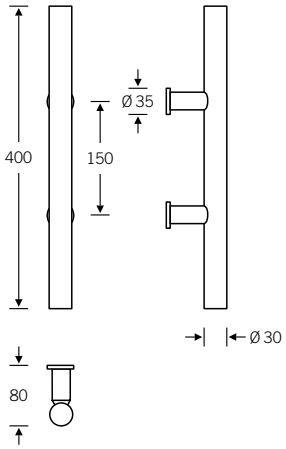
S | Safety clearance (see page 505)

Door pull
round

Technical information page 558ff.

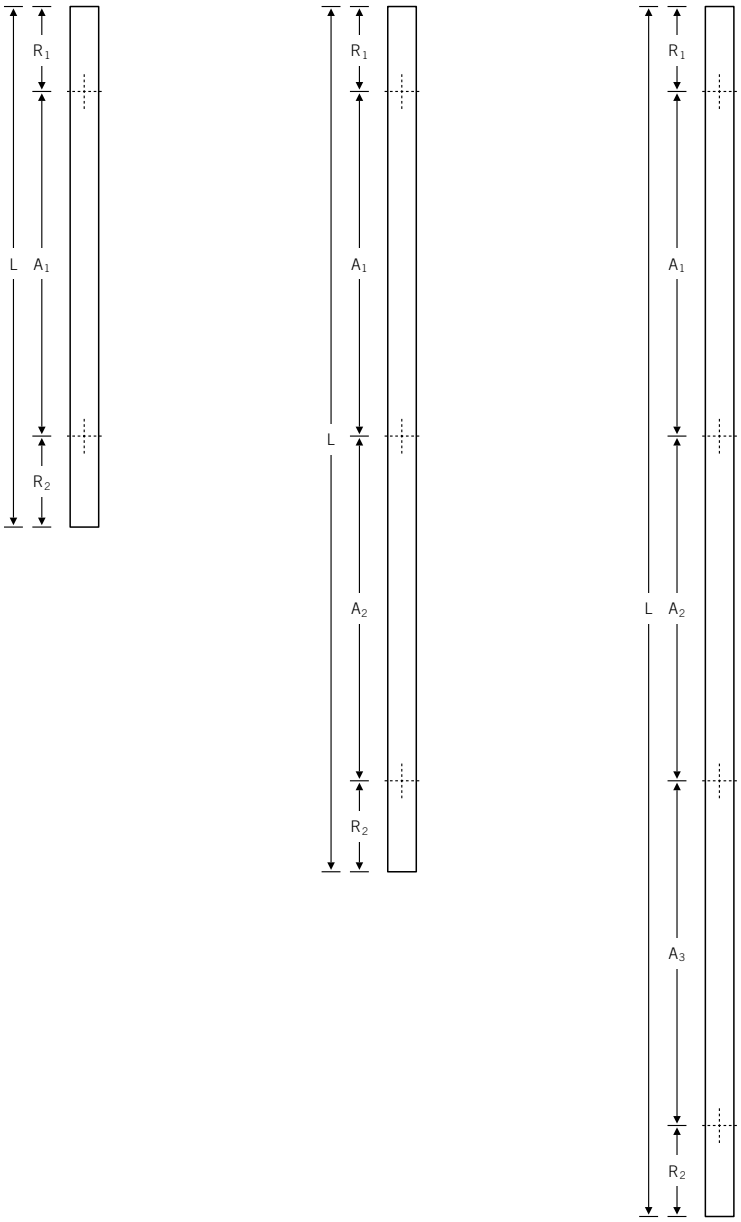
66 6681

Handle cross-section Ø 30 mm
M8 fixing
Standard length 400 mm (also in bespoke lengths, see form across the page)
Safety clearance S = 38 mm
(see page 505)



fsb.de/666681

Form



Please use a copy of this page when ordering door-pull series 66 6681 or 66 6630 of variable length:

First tick the box for the diameter desired, then enter details of quantities required and overall length in the table below.

Please also indicate bracket spacings and the edge spacing in mm. Brackets spacings should not exceed 1,200 mm on grounds of stability.

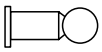
5a

☐ 66 6580 (Ø 25 mm)

☐ 66 6681 (Ø 30 mm)

☐ 66 6582 (Ø 35 mm)

☐ 66 6583 (Ø 40 mm)



Quant.	Length overall L	Bracket spacing A_1	A_2	A_3	Edge spacing* R_1	R_2	Fixing type

* min. 30 mm, max. 350 mm

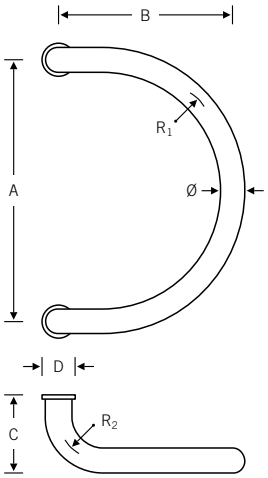
Door pull
round

Technical information page 558ff.

66 6683

Product Code	A	Ø	R1	R2	B	C	D	S
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 in Ø 30 mm (66 6683 038) only



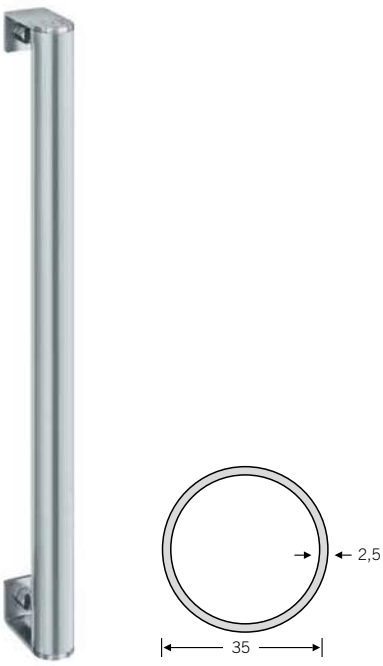
fsb.de/666659
fsb.de/666673
fsb.de/666678
fsb.de/666683

S | Safety clearance (see page 505)

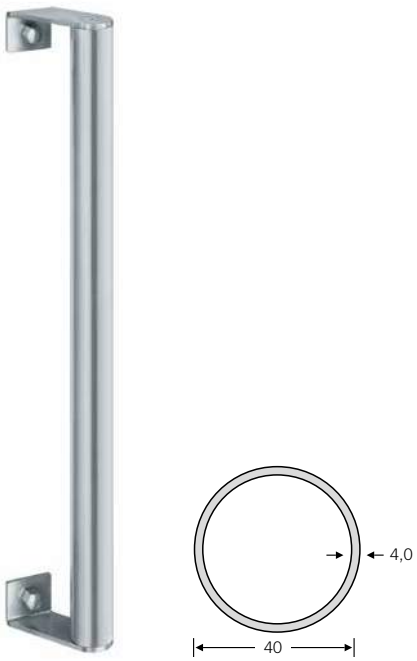
Door pulls
ht round welded

Technical information page 558 ff.

66 6522



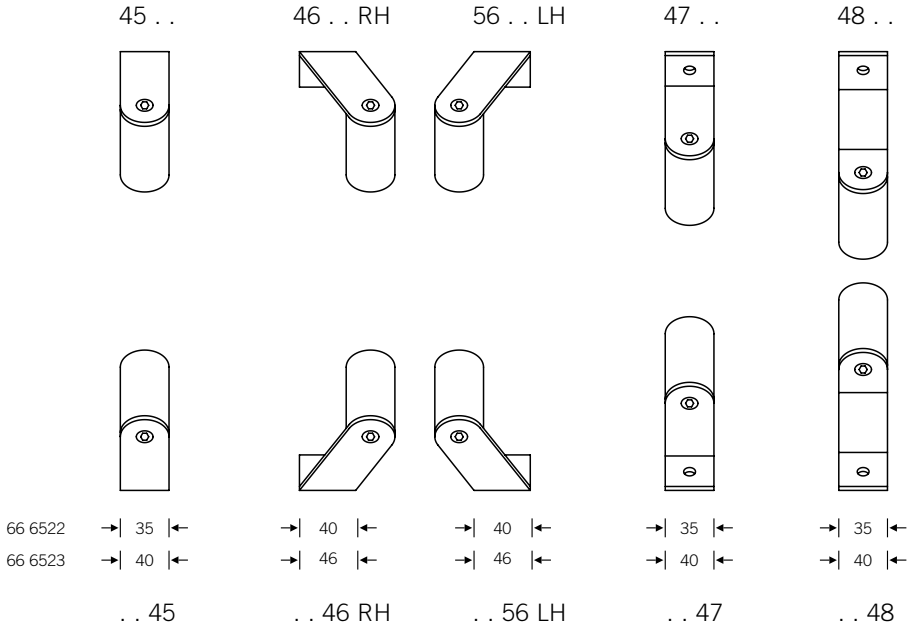
66 6523



66 6522
Dimension A 1,000–2,600 mm
Tube Ø 35 × 2.5 mm
Deployable as a fully-fledged pull model from A Dimensions of 1,000 mm, high-stability solution from the ht round kit for A Dimensions from 1,500–2,600 mm.

66 6523
Dimension A 2,100 mm upwards
Tube Ø 40 × 4 mm
for outsize lengths with A Dimensions up to 2,800 mm

Works-welded variant incorporating components from the ht round kit (see page 554)



Pulls in the welded series FSB 66 6522 and 66 6523 are made to order. To this end, please specify the bracket combination desired citing the relevant drawings and their numbers (e.g. FSB 66 6522 5656). Please also advise Dimension A, the distance between bracket fixing centres. We will then determine the pull's tube length by either adding or subtracting the differential dimensions given on the following page prior to welding the parts together at the works.

We only manufacture the bronze versions of FSB 66 6522 with the bracket combination 45 or 46/56 as a rule.

fsb.de/666522
fsb.de/666523

It is necessary when assembling ht round hardware (either oneself or using the works-welded variant) to bear structural requirements and conditions on site in mind. These handles are no substitute for gymnastic bars and must not be used as safety barriers at hazardous building openings. If you are in any doubt, please consult the architect or structural engineer. Details of fixing methods are to be found on page 558 ff.

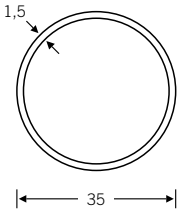
Door pull
ht round kit system

Technical information page 558ff.

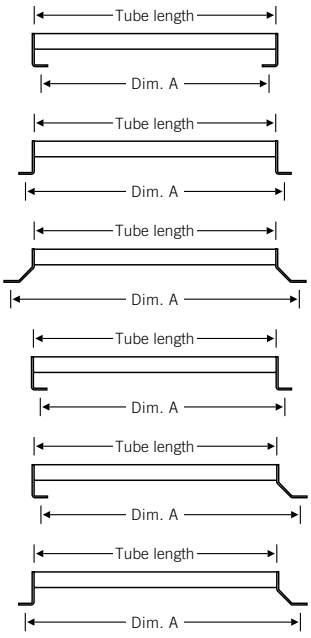
66 6801

Tube Ø 35 × 1.5 mm
Lengths up to 1,500 mm

The ht round kit system of tubes and companion brackets enables grabrail systems, handrails, safety rails etc. to be cut to size and assembled on site, using suitable tools, for A Dimensions of up to 1,500 mm. We recommend works-welded variant FSB 66 6522 for A Dimensions of 1,500 mm upwards. A further, similarly works-welded model, FSB 66 6523, is available for A Dimensions in excess of 2,100 mm (both shown on page 553).



Cut-to-size dimensions and bracket combinations:



66 6715 + 66 6715
66 6716 + 66 6716
Dim. A + 32 mm = Tube length
Dim. A + 40 mm = Length overall

66 6717 + 66 6717
Dim. A – 40 mm = Tube length
Dim. A + 30 mm = Length overall

66 6718 + 66 6718
Dim. A – 108 mm = Tube length
Dim. A + 30 mm = Length overall

66 6715 + 66 6717
Dim. A – 4 mm = Tube length
Dim. A + 35 mm = Length overall

66 6715 + 66 6718
Dim. A – 38 mm = Tube length
Dim. A + 35 mm = Length overall

66 6717 + 66 6718
Dim. A – 74 mm = Tube length
Dim. A + 30 mm = Length overall

(length overall including brackets)

The terms “tube length” and “Dimension A” have an important bearing on manufacturing, fixing and ordering. Dimension A defines the distance between bracket fixing centres. Tube length is arrived at by adding/subtracting the differential dimensions given alongside to/from Dimension A.

FSB recommends reinforcing pulls from the ht oval kit that are to be fitted to heavily frequented doors using the accessories we supply.

fsb.de/666801

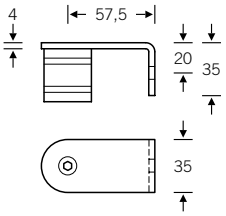
It is necessary when assembling ht round hardware (either oneself or using the works-welded variant) to bear structural requirements and conditions on site in mind. These handles are no substitute for gymnastic bars and must not be used as safety barriers at hazardous building openings. If you are in any doubt, please consult the architect or structural engineer. Details of fixing methods are to be found on page 558ff.

Door-pull brackets
ht round kit system

Technical information page 558 ff.

66 6715

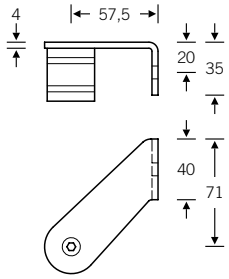
In-line bracket,
strap angled 90° inwards,
to suit tube Ø 35 × 1.5 mm



66 6716

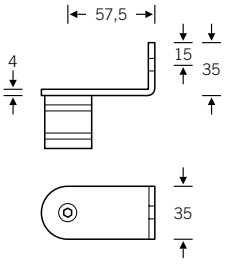
66 6716 014 (RH) | 66 6716 015 (LH)

Bracket with 45° crank,
strap angled 90° inwards,
to suit tube Ø 35 × 1.5 mm,
shown here: RH



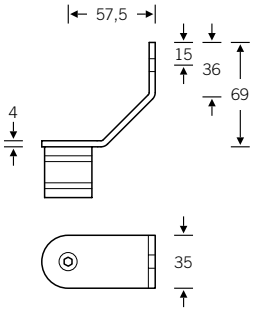
66 6717

In-line bracket,
strap angled 90° outwards,
to suit tube Ø 35 × 1.5 mm



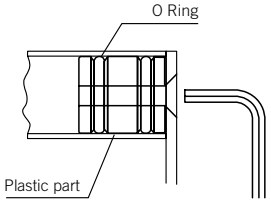
66 6718

Bracket for swing doors,
to suit tube Ø 35 × 1.5 mm



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

Borehole Ø 8.5 mm
Safety clearance S = 52 mm
(see page 505)



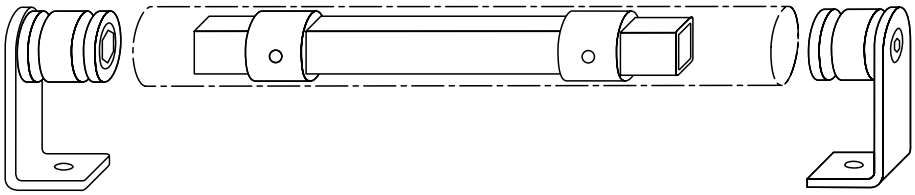
Once the tube has been cut to size (Dimension A ± differential dimension), the expansion plugs for the brackets selected are inserted into the two ends of the tube and activated by screw action at the top.

Door-pull accessories
ht round kit system

Technical information page 558 ff.

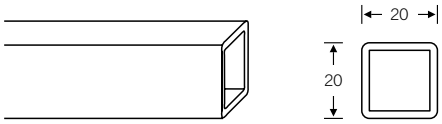
FSB recommends reinforcing pulls from the ht round kit fitted to heavily frequented doors with the aid of the accessories set out below – or, even better, opting for the works-welded variants FSB 66 6522 or 66 6523 (see page 553 f.).

How to proceed: cut steel rod to a length equal to that of the pull tube minus 100 mm. Slide spacer sleeves over the rod at intervals of 350 mm and secure. Insert the assembly into the handle and fit the hardware.



66 6801

hot galvanised hollow steel bar

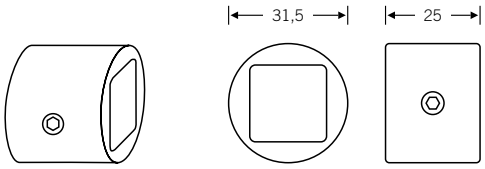


66 6801 02020

20 × 20 × 2 mm
Stock length supplied 3,000 mm

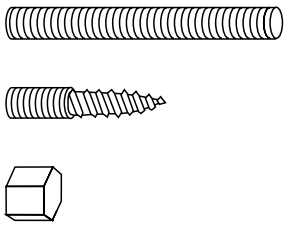
66 6719

Plastic



Spacing sleeve with securing screw

05 03..



05 0313 00880 (M8 × 80 mm)
threaded stud

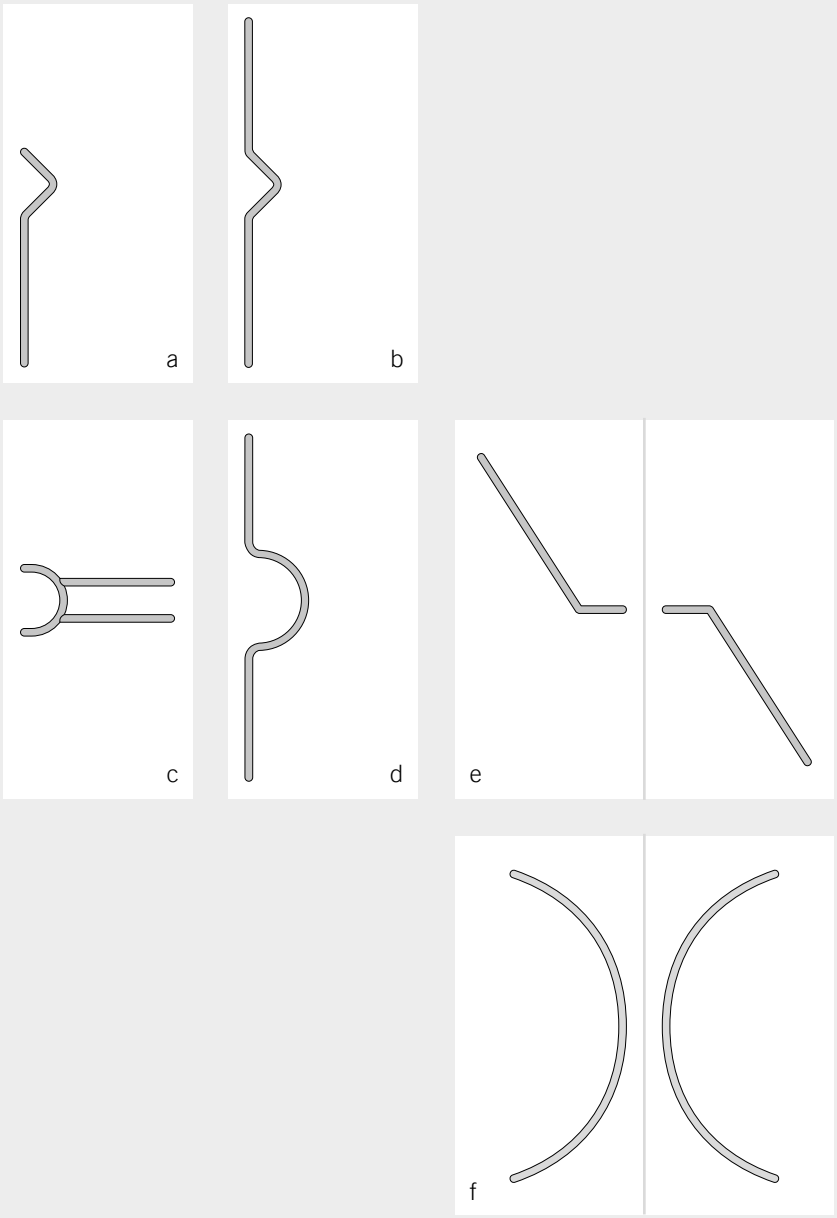
05 0316 00840 (M8)
headless wood screw

05 0320 00800 (M8)
Stainless Steel dome nut

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

Illustrative configurations
Round door-pull series

Technical information page 558 ff.



The sketches of pull configurations in Stainless Steel shown alongside are designed to serve as stimuli for architects, planners, designers, retailers and builders' clients.

Please always advise type of door, its material and thickness when requesting quotes. Accurately dimensioned drawings are essential for both quoting and manufacturing purposes.

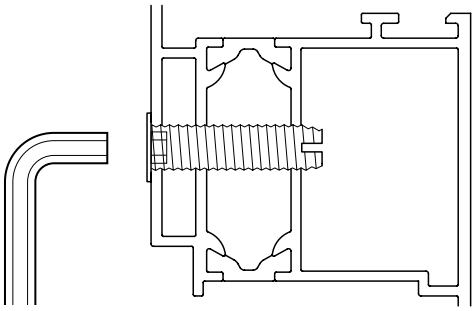
For handing details, see page 266 f.

Fixing FSB door pulls
with self-tapping threaded insert

FSB's self-tapping threaded insert technology offers a practice-oriented and, at the same time, enhanced solution for the concealed face-fixing of door pulls to wooden, Aluminium and plastic doors that additionally guarantees a far more effective absorption of tensile forces by the door stile.

Self-tapping threaded inserts 34/45/58 mm in length are used depending on the door thickness or type of stile.

As it is inserted, the self-tapping thread creates an ideal connection between door stile and self-tapping insert with comparatively low tolerances that ensures even and effective positive locking – assuming a hole of 12.5 mm in diameter for wooden doors and 13 mm in diameter for metal and plastic doors has been accurately drilled.



First step

Mechanically or manually drill holes with a diameter of 12.5 mm (wooden doors) or 13 mm (metal and plastic doors) to accommodate FSB's self-tapping threaded inserts.

Second step

The self-tapping inserts are then screwed into place using an 8 mm Allen key. FSB recommends using an Allen key with a handle, as this offers the best possible application of the requisite forces. The grub screw supplied is fastened once the insert is flush with the stile.

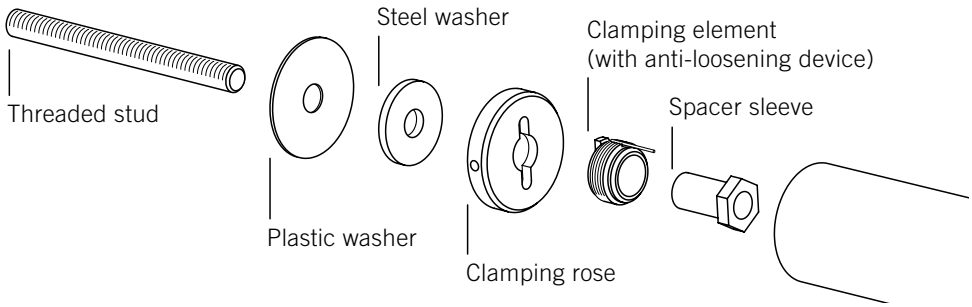
Third step

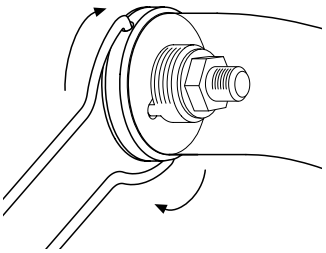
The pull can now be secured at these fixing points.

Fixing FSB door pulls
with clamping roses

FSB's clamping-rose fixing method enables pulls to be tightened fast against the surface of the door. The visible fixing screws otherwise required are done away with.

All door pulls with a round shank are supplied as female parts with anticlockwise internal threads measuring 18 × 1.5 mm (M8 fixing) or 14 × 1.5 mm (M6 fixing). The clamping rose fixing elements – plastic washer, steel washer, (non-loosening) clamping element, clamping rose and spacer sleeve – are securely held together by a plastic screw plug and pre-assembled at the end of the handle. FSB's clamping-rose fixing technique allows all FSB door pulls with round shanks to be tightened fast against any door face by means of an easy-to-assemble clamping rose. The radial play engineered into the assembly by FSB ensures the requisite compensatory tolerances during fitting. Installation is as follows:





First step

First, the threaded stud over which the clamping elements are to be fitted is passed through the door. This sequence is geared towards "back-to-back fixing", "bolt through-fixing" and "face-fixing with a self-tapping threaded insert".

Second step

The clamping elements are then removed from the pull ends by turning them anticlockwise. Plastic washer, steel washer, clamping rose and clamping element are now removed from their plastic retainer and slotted over the threaded stud in that order. The spacer sleeve is used to screw the individual components to together, the clamping element and clamping rose remaining free to rotate.

Third step

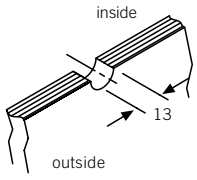
Finally, the pull is positioned over the fixing points and attached firmly to the surface of the door by alternately rotating the clamping roses in a clockwise direction.

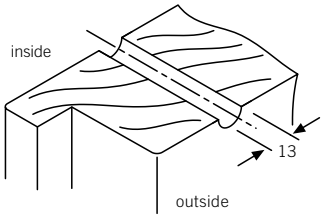
The turning tool for the FSB clamping rose forms part of the product supplied.

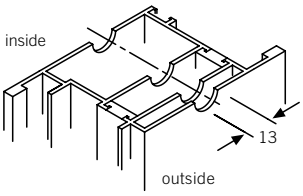
Drilling dimensions

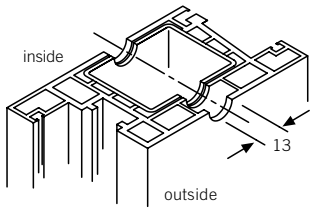
Glass doors	Timber doors	Metal doors	Plastic doors

Fixings, see A

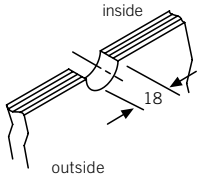


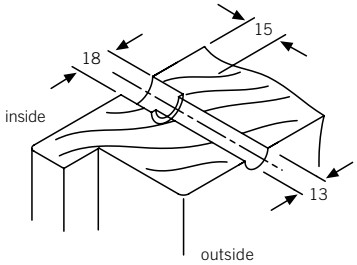


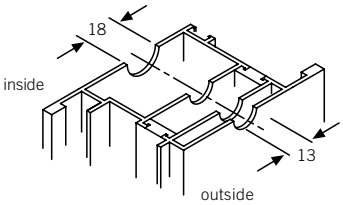


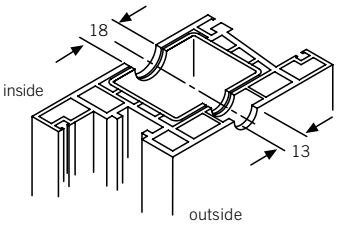


Fixings, see B

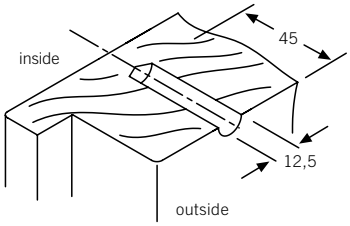


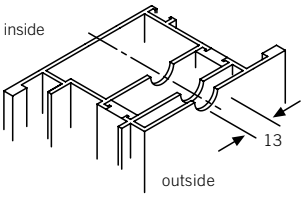


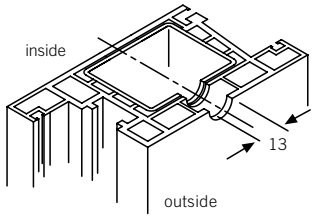


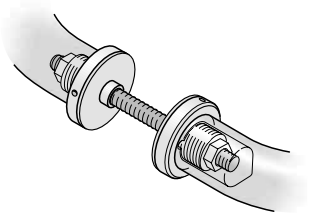


Fixings, see C

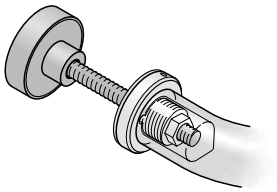




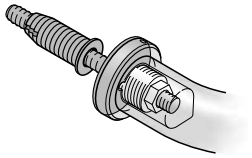




Fixing A
back to back:
05 0580, 05 0582, 05 0583, 05 0584, 05 0585, 05 0587, 05 0588
bolt through-fixing:
05 0582, 05 0583, 05 0584, 05 0585



Fixing B
bolt through-fixing:
05 0580, 05 0587



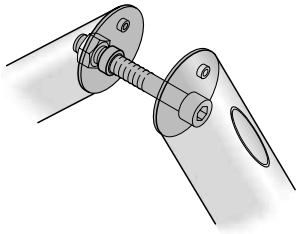
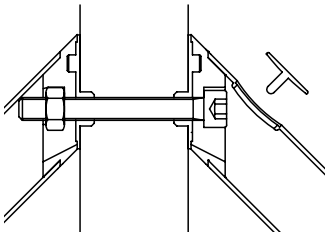
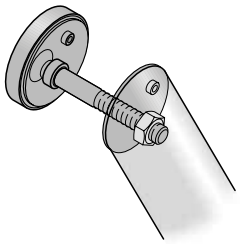
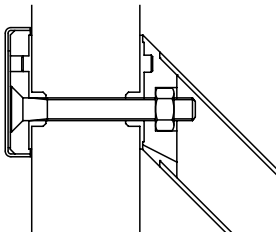
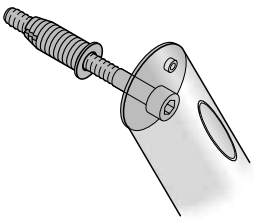
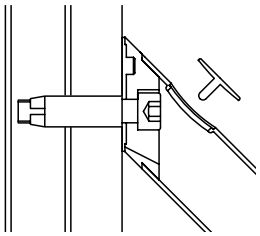
Fixing C
face-fixing with threaded insert:
all products

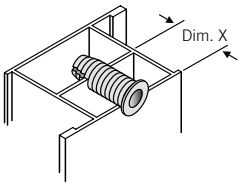
Methods of fixing door pulls

Door pull

66 6635

It should be borne in mind when selecting and ordering pulls and fixing methods that the handles in this series are manufactured as threaded and through-fixing components respectively.

	Fixing type	Fixing accessories	Product Code	
	back to back 	2 M8 cheese-head screws 4 Plastic washers 2 Handle caps in Stainless Steel Boreholes 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 M8 countersunk screws 4 Plastic washers 2 Fixing discs with Stainless Steel cover caps Boreholes 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 threaded insert 	2 M8 cheese-head screws 2 Plastic washers 2 Self-tapping threaded inserts in hardened galvanised steel 2 Handle caps in Stainless Steel Boreholes Ø 12.5 mm (timber), Ø 13 mm (metal/plastic doors)	05 0582 00335 Dimension X Plug length 05 0582 00336 Dimension X Plug length 05 0582 00337 Dimension X Plug length	 10 – 30 mm 38 mm 10 – 41 mm 45 mm 10 – 54 mm 58 mm



Dimension X =
Cavity dimension

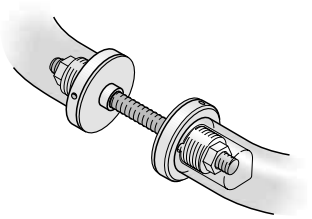
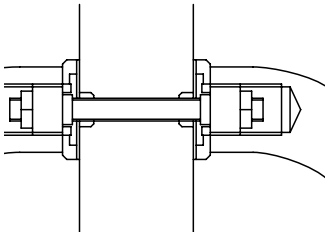
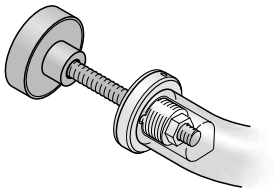
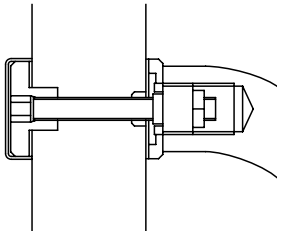
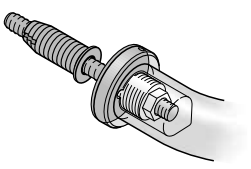
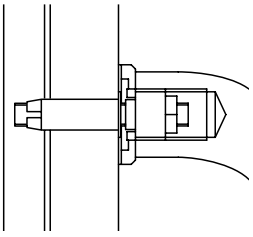
5a

Methods of fixing door pulls

Door pulls round M8

66 6506, 66 6507, 66 6514, 66 6531, 66 6532, 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 6678, 66 6679, 66 6681, 66 6683

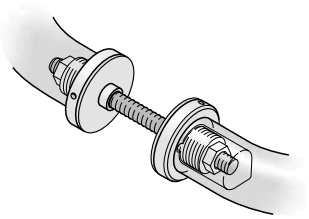
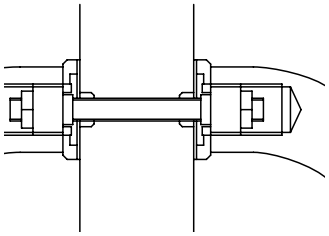
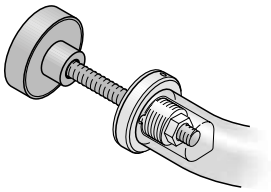
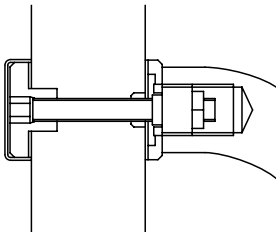
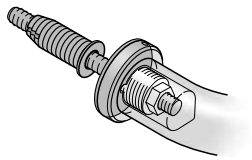
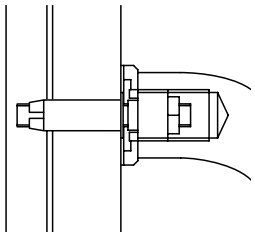
* different fixing method for Fingerscan

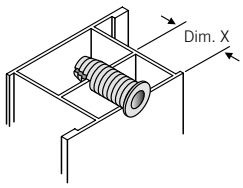
	Fixing type	Fixing accessories	Product Code
	back to back 	2 M8 threaded studs Boreholes Ø 13 mm	05 0580 01008 Glass door 8 – 10 mm 05 0580 03035 35 – 54 mm 05 0580 03055 55 – 74 mm 05 0580 03075 75 – 94 mm 05 0580 03095 95 – 114 mm
	bolt through-fixing 	2 M8 threaded studs 2 fastening nuts with cover caps Boreholes Ø 13/18 mm, see page 560	Handle 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 Handle 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 threaded insert 	2 M8 threaded studs 2 self-tapping threaded inserts in hardened galvanised steel Boreholes Ø 12.5 mm (timber), Ø 13 mm (metal/plastic doors)	05 0580 00335 Dimension X 10 – 30 mm Plug length 38 mm 05 0580 00336 Dimension X 10 – 41 mm Plug length 45 mm 05 0580 00337 Dimension X 10 – 54 mm Plug length 58 mm

Methods of fixing door pulls

Door pulls round M6

66 6610, 66 6611, 66 6612, 66 6613

	Fixing type	Fixing accessories	Product Code
	back to back 	2 M6 threaded studs Boreholes 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 M6 threaded studs 2 fastening nuts with cover caps Boreholes Ø 13/18 mm, see page 560	Handle 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 threaded insert 	2 M6 threaded studs 2 self-tapping threaded inserts in hardened galvanised steel Boreholes Ø 12.5 mm (timber), Ø 13 mm (metal/plastic doors)	05 0580 00435 Dimension X 10 – 30 mm Plug length 38 mm 05 0580 00436 Dimension X 10 – 41 mm Plug length 45 mm 05 0580 00437 Dimension X 10 – 54 mm Plug length 58 mm



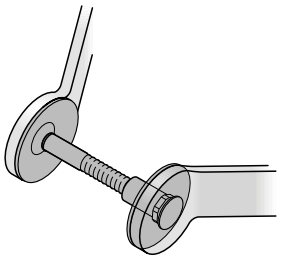
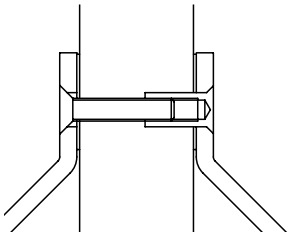
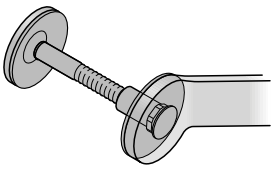
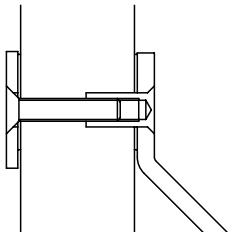
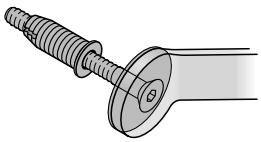
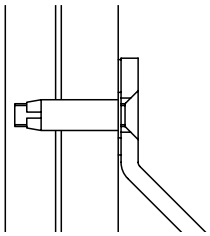
Dimension X =
Cavity dimension

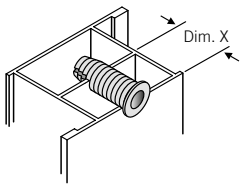
5a

Methods of fixing door pulls

Door pulls

66 6615, 66 6616, 66 6674, 66 6675

	Fixing type	Fixing accessories	Product Code	
	back to back 	2 M8 countersunk screws with M8 cap nuts in Stainless Steel 4 Plastic washers Boreholes 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 M8 countersunk screws with M8 cap nuts in Stainless Steel 2 Stainless Steel washers 4 Plastic washers Boreholes 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 threaded insert 	2 M8 countersunk screws in Stainless Steel 2 self-tapping threaded inserts in hardened galvanised steel 2 Plastic washers Boreholes Ø 12.5 mm (timber), Ø 13 mm (metal/plastic doors)	05 0583 00335 Dimension X Plug length 05 0583 00336 Dimension X Plug length 05 0583 00337 Dimension X Plug length	 10 – 30 mm 38 mm 10 – 41 mm 45 mm 10 – 54 mm 58 mm

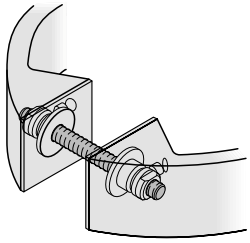
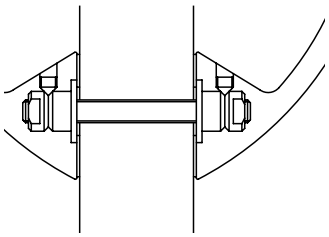
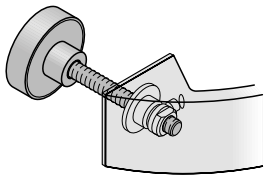
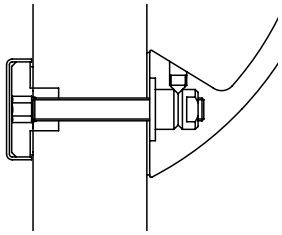
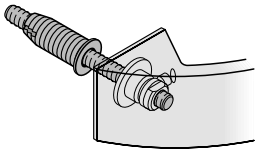
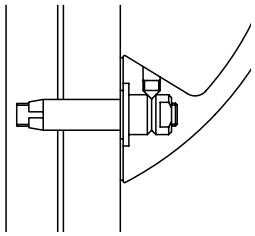


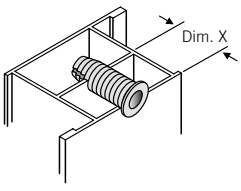
Dimension X =
Cavity dimension

Methods of fixing door pulls

Door pulls and push-pull pad handles

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

	Fixing type	Fixing accessories	Product Code	
	back to back 	2 M8 threaded studs Boreholes Ø 13 mm	05 0587 01008 Glass door 05 0587 03035 05 0587 03055 05 0587 03075	 8 – 10 mm 35 – 54 mm 55 – 74 mm 75 – 94 mm
	bolt through-fixing 	2 M8 threaded studs 2 fastening nuts with cover caps Boreholes Ø 13/18 mm, see page 560	05 0587 02308 Glass door 05 0587 04335 05 0587 04345 05 0587 04355 05 0587 04365 05 0587 04375	 8 – 10 mm 35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
	face-fixing with threaded insert 	2 M8 threaded studs 2 self-tapping threaded inserts in hardened galvanised steel Boreholes Ø 12.5 mm (timber), Ø 13 mm (metal/plastic doors)	05 0587 00335 Dimension X Plug length 05 0587 00336 Dimension X Plug length 05 0587 00337 Dimension X Plug length	 10 – 30 mm 38 mm 10 – 41 mm 45 mm 10 – 54 mm 58 mm



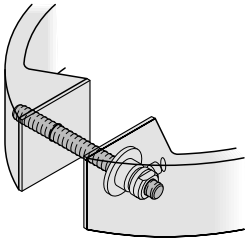
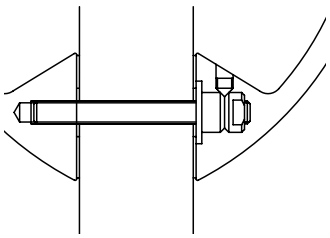
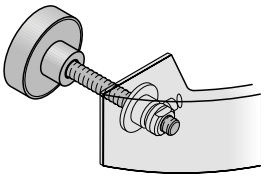
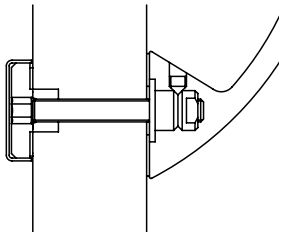
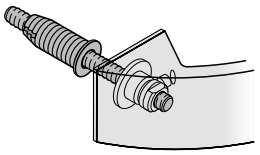
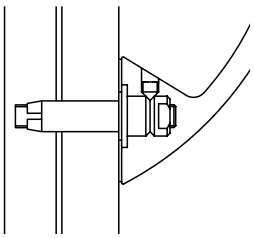
Dimension X =
Cavity dimension

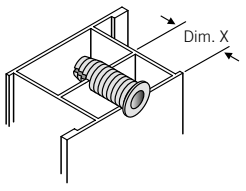
5a

Methods of fixing door pulls

Door pulls and push-pull pad handles

61 6112, 66 6642, 66 6643

	Fixing type	Fixing accessories	Product Code
	back to back 	2 M6 threaded studs Boreholes 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 M6 threaded studs 2 fastening nuts with cover caps Boreholes Ø 13/18 mm, see page 560	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 threaded insert 	2 M6 threaded studs 2 self-tapping threaded inserts in hardened galvanised steel Boreholes Ø 12.5 mm (timber), Ø 13 mm (metal/plastic doors)	05 0580 00435 Dimension X 10 – 30 mm Plug length 38 mm



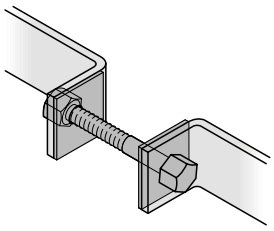
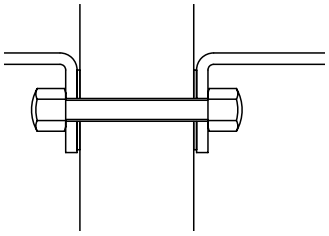
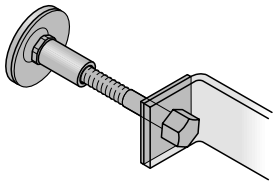
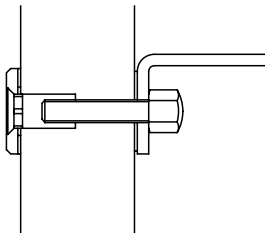
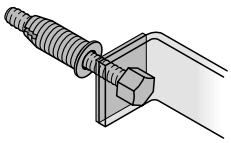
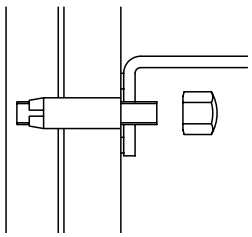
Dimension X =
Cavity dimension

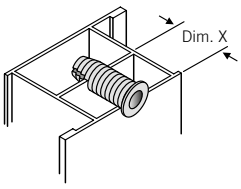
Methods of fixing door pulls

Door-pull series

ht oval kit
ht round kit

66 6522, 66 6523, 66 6524, 66 6527, 61 6254,
61 6268

	Fixing type	Fixing accessories	Product Code	
	back to back 	2 M8 threaded studs 4 M8 cap nuts in Stainless Steel 4 Plastic washers Boreholes 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 M8 threaded studs 2 M8 cap nuts in Stainless Steel 2 M8 cap nuts with Stainless Steel washers 4 Plastic washers Boreholes 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 threaded insert 	2 M8 threaded studs 2 M8 cap nuts in Stainless Steel 2 self-tapping threaded inserts in hardened galvanised steel 2 Plastic washers Boreholes Ø 12.5 mm (timber), Ø 13 mm (metal/plastic doors)	05 0585 00335 Dimension X Plug length 05 0585 00336 Dimension X Plug length 05 0585 00337 Dimension X Plug length	 10 – 30 mm 38 mm 10 – 41 mm 45 mm 10 – 54 mm 58 mm



Dimension X =
Cavity dimension

Lever-handle AGL® half-sets
with positive mechanism

70 1015

70 1015 00504 (RH) | 70 1015 00505 (LH)

round rose
8 mm square hole
Model FSB 1015

70 1023

70 1023 00504 (RH) | 70 1023 00505 (LH)

round rose
8 mm square hole
Model FSB 1023

70 1070

70 1070 00504 (RH) | 70 1070 00505 (LH)

round rose
8 mm square hole
Model FSB 1070

70 1076

70 1076 00504 (RH) | 70 1076 00505 (LH)

round rose
8 mm square hole
Model FSB 1076

70 1108

70 1108 00504 (RH) | 70 1108 00505 (LH)

round rose
8 mm square hole
Model FSB 1108

Stylistically similar model with arching grip: FSB 1107, see page 162 ff.

fsb.de/701015
fsb.de/701023
fsb.de/701070
fsb.de/701076
fsb.de/701108

Lever handles with AGL® technology for face-fixing to front doors, with rugged base and positive mechanism. The requisite half-spindles 05 0115 and 05 0116 are to be found on page 764.

Lever-handle AGL® half-sets
with positive mechanism

70 1163

70 1163 00504 (RH) | 70 1163 00505 (LH)

round rose
8 mm square hole
Model FSB 1163

ditto but with angular roses
(see page 196 ff.)
70 1163 00604 (RH) | 70 1163 00605 (LH)

70 1183

70 1183 00604 (RH) | 70 1183 00605 (LH)

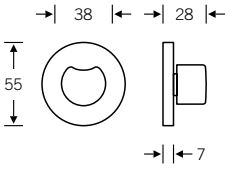
angular rose
8 mm square hole
Model FSB 1183

Further models are to be found in Section 3a

with round roses
70 1075 0050. (see page 138 f.) and
70 1146 0050. (see page 180 ff.)
with angular roses
70 1003 0060. (see page 86 f.) and
70 1004 0060. (see page 88 ff.)

all with 8 mm square hole

03 0418

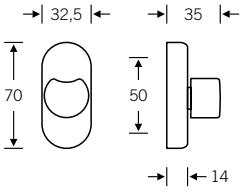


03 0418 00208

8 mm square hole
Standard spindle projection 40 mm, custom spindle projections possible

Easy-action thumbturn on round rose with concealed face-fixing for use on multipoint locking systems

03 0418



03 0418 003

8 mm square hole
Standard spindle projection 40 mm, custom spindle projections possible

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

Lever handles with AGL® technology for face-fixing to front doors, with rugged base and positive mechanism. The requisite half-spindles 05 0115 and 05 0116 are to be found on page 764.