

Bronze

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Bronze

The material

Like brass, bronze, is not a natural product but the upshot of human inventiveness. Bronze is an alloy of copper and tin (hence the expression 'tin bronze', which is still current). The specific properties of bronze underpin a great many technical developments – both in the distant past and in the hi-tech present. It is with good reason that an entire period of human history is named after this metal – the Bronze Age. Copper was man's only working metal for a very long time before the art of alloying various metals was discovered and hence application options were extended and enhanced. Learning how to combine copper and tin to form an alloy, bronze, was an achievement on a par with the feats of industrialisation.

Whereas pure copper is comparatively soft, the tin in bronze lends it great strength and hardness. Bronze is also very resistant to corrosion and wear, moreover. These properties revolutionised the making of objects of daily use, though also of weapons.

A metal of a special kind

What, in a very literal sense, most visibly distinguishes bronze is revealed by years of use. With time, bronze hardware acquires added appeal. The patina that develops really brings out the material's aesthetic charm and that of lever handles made of it. Polished bronze fittings darken through the effects of the atmosphere and environment. Patina should not be thought of as being a material blemish. Rather, it bears testimony to credible ageing and the benefits of change. It also protects the surface in a natural way, somewhat like a coating of sealant.

Bronze is a material that is used as opposed to being used up and has been recovered and its constituents recycled since time immemorial. And it is not just in facilitating the economical use of resources that bronze has affinities with "wabi-sabi", the traditional Japanese system of values and aesthetics. Factors such as its natural ageing process, the beauty this gives rise to, its earthy colouring and its warmly sensuous emanations imbue bronze with a quality that lends lever handles made of the material uncommon powers of adornment.

The tradition of bronze in architecture

By supplying a selection of its lever handle models in bronze, FSB is reviving a tradition that was indefensibly consigned to oblivion during the heyday of post-modern architecture. Not only is bronze a material that is intricately tied up with the history of human civilisation, but it also excels by virtue of material qualities and of haptic and visual properties that from a very early stage led to its being favoured for the making of objects, fixtures and fittings in architecture – lever and pull handles included. Bronze played a major part in architecture back in antiquity, in the Middle Ages and during the Renaissance period. Doors and portals on prestigious buildings still impressively bear witness to the momentous nature of this material today.

Many architects cherish the noble character of bronze – and were doing so before it was rediscovered for prestigious structures in the new Berlin. The German bronze tradition goes back a long way. In the mid-19th century, Samuel Abraham Loevy set up a bronze foundry of the same name and established it as a makers of "high-quality fittings in gunmetal and yellow metal" as bronze and brass were originally referred to. Until it was expropriated by the National Socialists in 1939, the S. A. Loevy company worked for architects such as Peter Behrens or Heinrich Straumer and supplied hardware, fixtures and fittings for a great many award-winning public building projects.

The Material

We make use of a copper-tin alloy containing 92 % copper and 8 % tin for our bronze fittings that bears the formula CuSn8 and is registered as material No. 2.1030. This composition is characterised by its excellent resistance to corrosion, great tensile strength and extreme hardness. The resistance to wear of this bronze makes it a prime candidate for products of daily use that come in for a lot of rough treatment.

Areas of application

After the years of the stainless steel boom and a soberly functional formal vocabulary in architecture, the desire for a new material with a fresh appearance is making itself heard more and more. Bronze fittings suggest themselves for settings in which lambent shades predominate or nuanced design accents are to be set.

Our bronze range is ideal for renovation and refurbishment projects, furthermore. Wherever traditional architecture is preserved or re-interpreted, lever handles in bronze are a charming reminder of the past.

Finishes



7305



7615



7625



FSB supplies door and window hardware in bronze, and the attendant accessories, in the following finishes:

FSB 7305
Bronze polished oiled

FSB 7615
Bright patinated oiled
Bronze

FSB 7625
Dark patinated oiled
Bronze

There may be slight colour variations between batches where artificially aged bronze in particular is concerned. Far from being a quality defect, this phenomenon is rooted in the nature of the material and the chemical ageing process, which may give rise to slightly varying colour shades depending on the climatic or production conditions involved. Such discrepancies are evened out, however, from the moment the hardware is subjected to regular use and a natural patina is formed.

It is a fact of nature that, once fitted, bronze hardware is always likely to change colour over the course of time or to become darker - depending on how often it is used or - in the case of outdoor applications in particular - on the effects of the weather.

The "lifeline" above gives some idea of the shades achievable. It depicts polished waxed finishes ranging from non-artificially aged about averagely artificially aged up to the dark patinated finish.

It is possible, of course, to incorporate the process of change illustrated by the lifeline into the architectural concept itself: fittings with a non-artificially aged finish will change to a greater degree than those with an averagely artificially aged finish or even the fittings with patinated finish.

Please address requests of this sort to the Commercial Consultants in our Field Service (cf. Page 578).

Polished bronze

Hardware with finish 7305 is polished and acquires a subtly natural-looking sheen as a result. Surfaces patinate in a natural manner in the course of time.

Artificially aged bronze

Hardware with finish 7615 and 7625 is pre-treated adopting a special procedure developed by FSB. An immersion bath for cupriferous metals imitates the natural ageing process of the material. Artificial ageing yields a typical bronze patina that is every bit as impressive as its counterpart brought about by environmental influences.

A final coating of oil at the works protects both finishes against the aforementioned external influences, which would discolour untreated bronze surfaces. The oil used can be effortlessly removed with a proprietary cleanser and is ecologically sound.

Corrosion control

On aesthetic grounds, we would not recommend holding back time artificially. FSB will, if expressly requested to do so, supply anyone hell bent all the same on cocking a snook at the forces of nature with bronze door levers sporting a lacquer finish. We would, however, emphatically advise against such a choice, since the coating involved detracts from the natural patina effect typical of the material.

Lacquered bronze fittings lose their sheen, moreover, as soon as the lacquer is damaged and intercrystalline corrosion sets in.

Surface hygiene

Items of daily and regular use are undeniably popular habitats for bacteria and germs. This is inevitably also the case with lever handles - especially in public buildings, where they are subject to greater use. Some competitors claim that certain materials kill germs more effectively than others. But in our opinion this only (measurably) holds true under laboratory conditions. Whether a given host material destroys bacteria in 24 hours or in 72 is academic really, since doors tend to be in fairly regular use anyway. You would have to take remedial action every time a door were negotiated to eliminate germs altogether.

Overview



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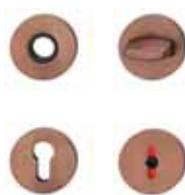
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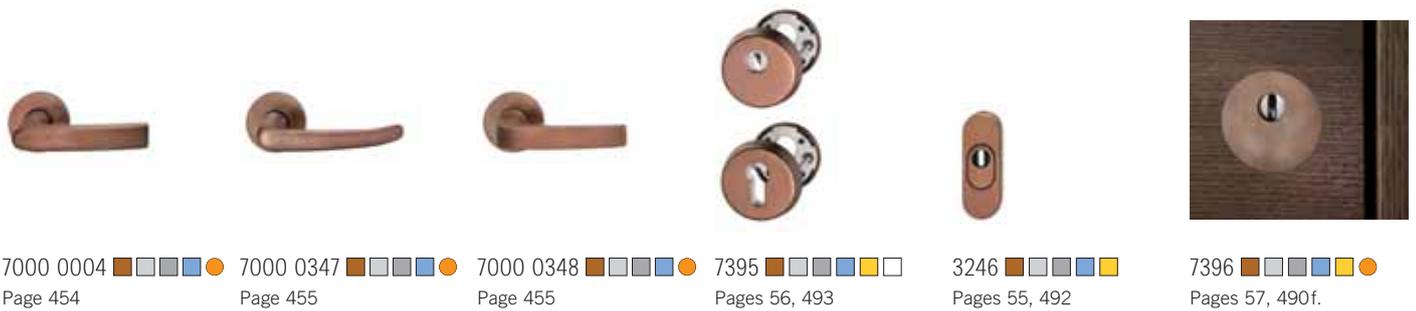
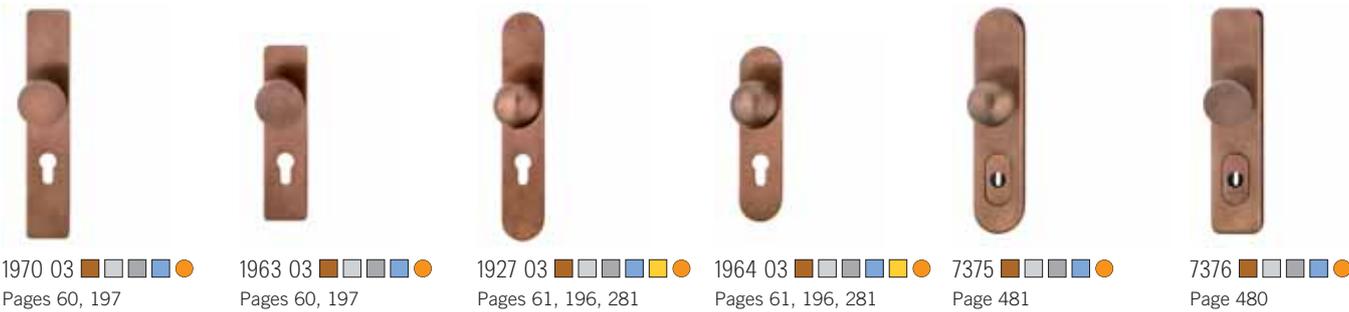
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● New products 09110

Aluminium Bronze
 AluGrey Brass
 Stainless steel Alu + Couleur

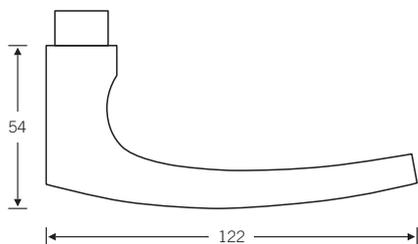


Product family Model 1015



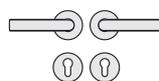
- Bronze
- Aluminium
- AluGrey
- Stainless steel

It is not known who designed the original of FSB 1015. We suspect it was hatched by the wehag company. The version by Johannes Potente is a very clean-lined lever handle that assumes a completely fresh identity, both haptically and visually, in the new bronze variant.



Lever design with return, acc. to. EN179: FSB 1045 cf. page 44

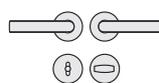
Flush roses cf. page 146f.



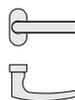
Internal door furniture
1015 | 1743 | 1744¹
1015 | 1731 | 1735²



Entrance door furniture
1015 | 1743 | 1744 | 2329 05¹
1015 | 1731 | 1735 | 2329 06²



Bathroom furniture
1015 | 1743 | 1744 0084^{1,3}
1015 | 1731 | 1735 0054^{2,4}



Lever handle for framed doors
7215 25 8 mm □
7615 25 9 mm □

Details page 62



Door knob for framed doors
0629 2853 turnable
2329 2801 fixed



Door knob for framed doors
0609 2853 turnable
2309 2801 fixed



Window handle
3424

Details page 58

¹ 1743 | 1744 subroses without lugs, face fixing

Spindles for privacy sets:
³ 6 mm □
⁴ 8 mm □

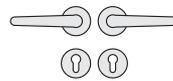
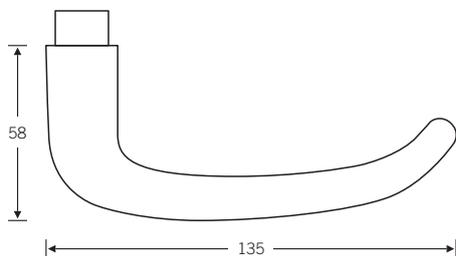
² 1731 | 1735 subroses with lugs and through fixing – for use with German DIN locks, cf. page 531f.

Product family
Model 1023



- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass*

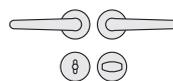
In the 1950s, the Swiss architect, sculptor and designer Max Bill got together with Ernst Moeckel to fashion a door handle for the new Ulm Design College building that drew on the handles common on railway carriage doors in Switzerland and has made design history as the “Ulm handle”. FSB 1023 is yet another of our models that acquires strikingly new visual and haptic properties in bronze.



Internal door furniture
1023 | 1743 | 1744¹
1023 | 1731 | 1735²



Entrance door furniture
1023 | 1743 | 1744 | 2302 05¹
1023 | 1731 | 1735 | 2302 06²



Bathroom furniture
1023 | 1743 | 1744 0084^{1,3}
1023 | 1731 | 1735 0054^{2,4}



Lever handle for framed doors
7223 25 8 mm □
7623 25 9 mm □

Details page 62



Door knob for framed doors
0602 2853 turnable
2302 2801 fixed



Door knob for framed doors
0638 2853 turnable
2346 2801 fixed



Window handle
3423

Details page 58

Flush roses cf. page 146f.

* Furniture for framed doors not available in brass

¹ 1743 | 1744 subroses without lugs, face fixing

² 1731 | 1735 subroses with lugs and through fixing – for use with German DIN locks, cf. page 531f.

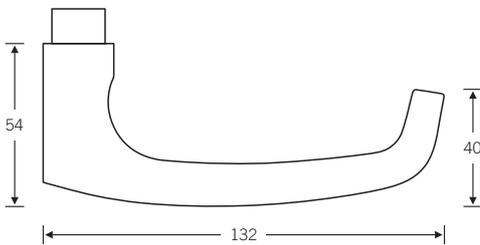
Spindles for privacy sets:
³ 6 mm □
⁴ 8 mm □

Product family
Model 1045

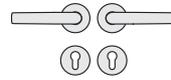


- Bronze
- Aluminium
- AluGrey
- Stainless steel

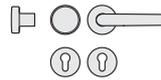
FSB 1045 is based on the model on the previous page, FSB 1015. Given the unceasing use of the FSB 1015 model in commercial ventures, we have now supplemented this design with a return variant conforming to DIN EN 179. Testing and certification to DIN EN 179 are at the preparatory stage.



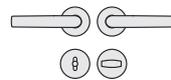
Flush roses cf. page 146f.



Internal door furniture
1045 | 1743 | 1744¹
1045 | 1731 | 1735²



Entrance door furniture
1045 | 1743 | 1744 | 2329 05¹
1045 | 1731 | 1735 | 2329 06²



Bathroom furniture
1045 | 1743 | 1744 0084^{1,3}
1045 | 1731 | 1735 0054^{2,4}



Lever handle for framed doors
7245 25 8 mm □
7645 25 9 mm □

Details page 62



Door knob for framed doors
0629 2853 turnable
2329 2801 fixed



Door knob for framed doors
0609 2853 turnable
2309 2801 fixed



Window handle
3424

Details page 58

¹ 1743 | 1744 subroses without lugs, face fixing

Spindles for privacy sets:
³ 6 mm □
⁴ 8 mm □

² 1731 | 1735 subroses with lugs and through fixing – for use with German DIN locks, cf. page 531f.

Product family

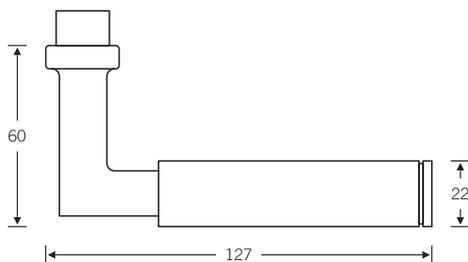
Model 1102



- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass*

The FSB 1102 model is rooted in a redesign venture by Italian designer Alessandro Mendini, who refashioned the celebrate Gropius lever handle by using a different material and adding a groove as one of his submissions to FSB's Design Workshop held in 1986.

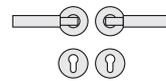
Owing to the popularity of this design, we now supply FSB 1102 in the four materials listed above and the corresponding finishes. We would recommend using the rugged stainless steel variant on heavily used doors, indeed that is the version shown here.



Flush roses cf. page 146f.

* Furniture for framed doors not available in brass

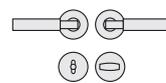
** Brass: door knob 2302



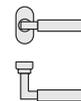
Internal door furniture
1102 | 1743 | 1744¹
1102 | 1731 | 1735²



Entrance door furniture
1102 | 1743 | 1744 | 2329 02**¹
1102 | 1731 | 1735 | 2329 06**²



Bathroom furniture
1102 | 1743 | 1744 0084^{1,3}
1102 | 1731 | 1735 0054^{2,4}



Lever handle for framed doors
7202 25 8 mm □
7602 25 9 mm □

Details page 63



Door knob for framed doors
0629 2853 turnable
2329 2801 fixed



Door knob for framed doors
0609 2853 turnable
2309 2801 fixed



Window handle
3432

Details page 60

¹ 1743 | 1744 subroses without lugs, face fixing

² 1731 | 1735 subroses with lugs and through fixing – for use with German DIN locks, cf. page 531f.

Spindles for privacy sets:
³ 6 mm □
⁴ 8 mm □

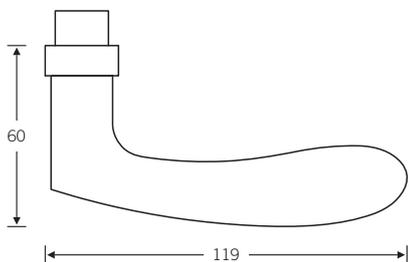
Product family

Model 1106



- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass*

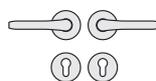
This design by Frankfurt-based architect Christoph Mäckler draws on a style of lever handle popular in the 19th century. At the same time as the familiar model was formally reworked, the technical preconditions for its use as an FSB project fitting were established. The upshot is FSB 1106. Given the venerable formal vocabulary informing the model, we had little choice but to include it in FSB's new Bronze Collection.



Design: Christoph Mäckler
Flush roses cf. page 146f.

* Furniture for framed doors not available in brass

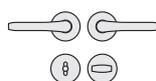
** Stainless steel and brass: door knob 2302



Internal door furniture
1106 | 1743 | 1744¹
1106 | 1731 | 1735²



Entrance door furniture
1106 | 1743 | 1744 | 2316 05**¹
1106 | 1731 | 1735 | 2316 06**²



Bathroom furniture
1106 | 1743 | 1744 0084^{1,3}
1106 | 1731 | 1735 0054^{2,4}



Lever handle for framed doors
7205 25 8 mm □
7605 25 9 mm □

Details page 63



Door knob for framed doors
0602 2853 turnable
2302 2801 fixed



Door knob for framed doors
0638 2853 turnable
2346 2801 fixed



Window handle
3736

Details page 59

¹ 1743 | 1744 subroses without lugs, face fixing

² 1731 | 1735 subroses with lugs and through fixing – for use with German DIN locks, cf. page 531f.

Spindles for privacy sets:
³ 6 mm □
⁴ 8 mm □

Product family

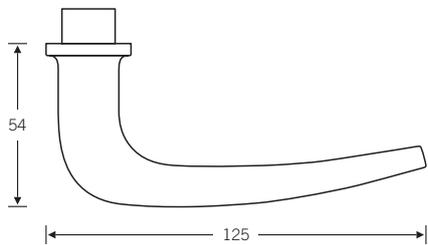
Model 1163



- Bronze
- Aluminium
- AluGrey
- Stainless steel

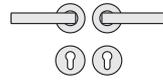
The Berlin-based architect Hans Kollhoff devised a handle design for his building projects that consciously incorporates design elements from the 1930s.

The Kollhoff Collection has now been rounded off – very pleasingly, we feel – by a version in bronze, once commonly referred to as “gun-metal” or “red brass”.

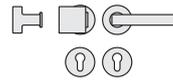


Design: Hans Kollhoff

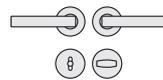
Flush roses cf. page 146f.



Internal door furniture
1163 | 1743 | 1744¹
1163 | 1731 | 1735²



Entrance door furniture
1163 | 1743 | 1744 | 2333 05¹
1163 | 1731 | 1735 | 2333 06²



Bathroom furniture
1163 | 1743 | 1744 0084^{1,3}
1163 | 1731 | 1735 0054^{2,4}



Lever handle for framed doors
7263 25 8 mm □
7663 25 9 mm □

Details page 62



Door knob for framed doors
0629 2853 turnable
2329 2801 fixed



Door knob for framed doors
0609 2853 turnable
2309 2801 fixed



Window handle
3433

Details page 59



Window handle
3453

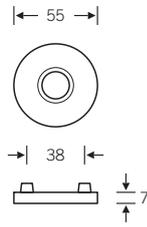
Details page 60

¹ 1743 | 1744 subroses without lugs, face fixing

² 1731 | 1735 subroses with lugs and through fixing – for use with German DIN locks, cf. page 531f.

Spindles for privacy sets:
³ 6 mm □
⁴ 8 mm □

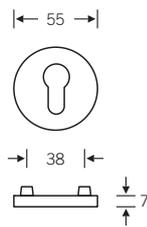
Roses



1743

subroses with lugs: 1731

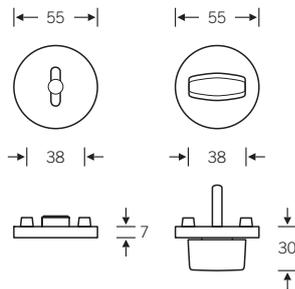
- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass



1744

subroses with lugs: 1735

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass



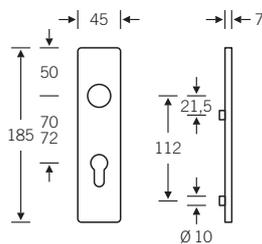
1744 0084 6 mm □

subroses with lugs:
1735 0054, 8 mm □

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass



Backplates



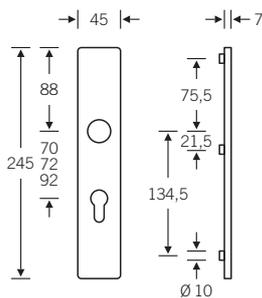
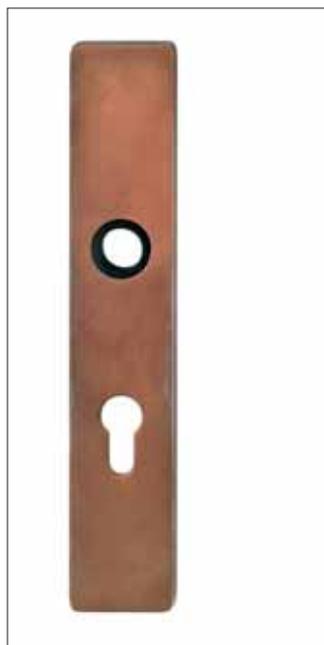
1450 03

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Distance 70 + 72 mm
Concealed fixing

Fixing template 0477
cf. page 578

3



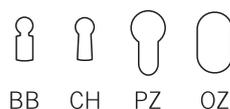
1410 03

- Bronze
- Aluminium
- AluGrey
- Stainless steel

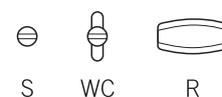
Distance 70, 72 + 92 mm
Concealed fixing

Fixing template 0476
cf. page 579

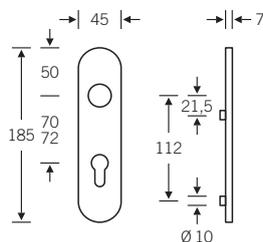
Keyholes



Bathroom/WC version



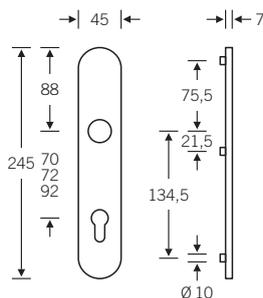
Backplates



1451 03

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass

Distance 70 + 72 mm
Concealed fixing

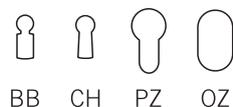


1418 03

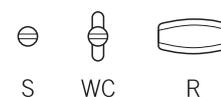
- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass

Distance 70, 72 + 92 mm
Concealed fixing

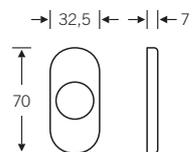
Keyholes



Bathroom/WC version

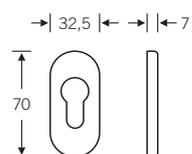


Roses for framed doors
Protection roses



1758

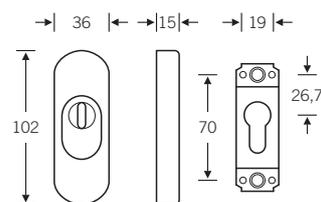
- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass



1757

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass

3



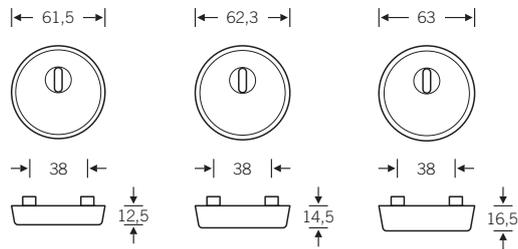
3246

- Bronze
- Aluminium
- Alu + Couleur
- Stainless steel
- Brass

To suit cylinder projections (CP) from 8 – 15 mm

Integrated safety engineering demands that the external dimensions of an armoured rose be 11 or 16 mm greater than its fixing centres. In particular, this needs to be borne in mind when ordering a mix of hardware.

Protection roses

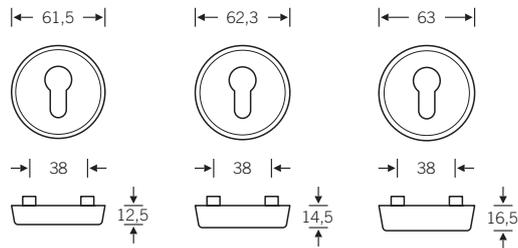


7395 1...

- Bronze
- Aluminium
- Alu + Couleur
- AluGrey
- Stainless steel
- Brass

To suit cylinder projections (CP) as per table below:

| Dimensions in mm | | | |
|------------------|--------|------|------------|
| Ø | Height | CP | Prod. Code |
| 61,5 | 12,5 | 6,5 | 7395 1010 |
| 62,3 | 14,5 | 8,5 | 7395 1110 |
| 63,0 | 16,5 | 10,5 | 7395 1210 |



7395 0...

- Bronze
- Aluminium
- Alu + Couleur
- AluGrey
- Stainless steel
- Brass

To suit cylinder projections (CP) as per table below:

| Dimensions in mm | | | |
|------------------|--------|------|------------|
| Ø | Height | CP* | Prod. Code |
| 61,5 | 12,5 | 12,5 | 7395 0010 |
| 62,3 | 14,5 | 14,5 | 7395 0110 |
| 63,0 | 16,5 | 16,5 | 7395 0210 |

* recommended cylinder projection ± 1,5 mm

Protection roses 7395 series are tested and certified acc. to German DIN 18257 ES 1.

EN 1906 Security class 2 (cf. page 429)
Registration No. 3V06

Flush protection roses

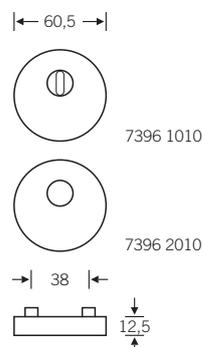
7396 1010
7396 2010

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass

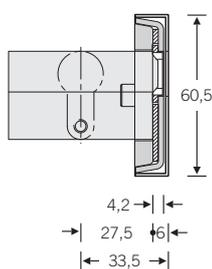
Protection roses 7396 series are tested and certified according to German DIN 18257 ES 1.

EN 1906 Security class 2 (cf. page 429)
Registration No. 3V06

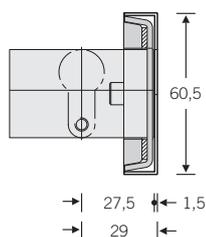
3



7396 1010



7396 2010



It is the distance from the lock centre to the outside of the door as opposed to the door's thickness that ultimately determines whether 7396 Series armoured roses can be flush-fitted: said distance needs to be at least 33.5 mm in the case of FSB 7396 1010 and a more modest 29 mm in the case of FSB 7396 2010. The lower dimension for 7396 2010 is due to the securing disc being omitted, making 7396 2010 a first-class choice in cases involving awkward dimensional configurations as regards door thickness and lock position: where a door is overly thin or the position of the lock less than ideal, 7396 2010 facilitates compensation of cylinder pro-

jections up to 4.5 mm greater and door thicknesses up to 4.5 mm less than with the 7396 1010 model. Omitting the securing disc does not affect the Security Class, moreover – both versions accordingly have an S2 classification under DIN EN 1906. Since flush fitting has no bearing on the Security Class, armoured roses can of course also be allowed to project by a few millimetres or, indeed, they can be “classically” surface-mounted, a solution every bit as visually impressive given the elemental geometry imbuing 7396. Similarly, the client can dispense with inward flush fixing so as to harmonise the rose with classic hardware on all other internal doors.

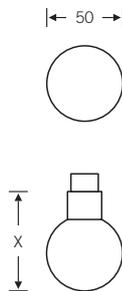
Please request solutions of this kind individually. These options and a wide variety of available materials open up the greatest possible degree of flexibility as regards design and price to architects and fabricators seeking to fulfil bespoke customer aspirations.

Further technical information for installing flush protection roses cf. page 448f.

Order details:

- Door thickness
- Version 7396 1010 or 2010
- Material/finish
- Quantity

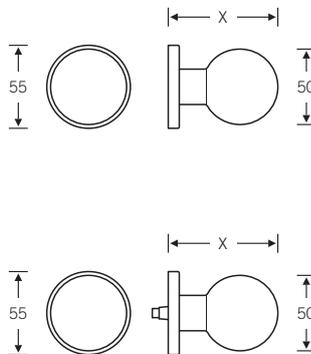
Knob handles
Door knobs



0802

- Bronze (X = 65 mm)
- Aluminium (X = 70 mm)
- AluGrey (X = 70 mm)
- Stainless steel (X = 66 mm)
- Brass (X = 65 mm)

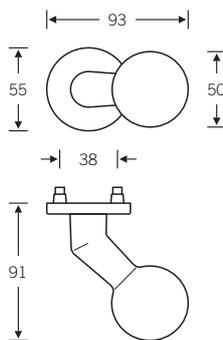
8 mm □-hole



2302 ..

- Bronze (X = 72 mm)
- Aluminium (X = 77 mm)
- AluGrey (X = 77 mm)
- Stainless steel (X = 73 mm)
- Brass (X = 72 mm)

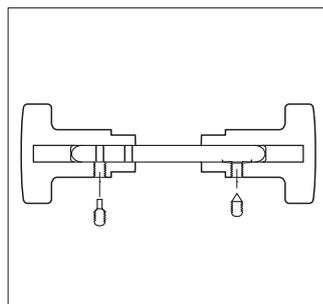
05 Concealed face fixing
06 Concealed through fixing
c:c screw holes 38 mm



2346 06

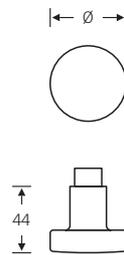
- Bronze
- Aluminium
- AluGrey
- Stainless steel

Concealed through fixing
c:c screw holes 38 mm



Turnable knob handles are made and supplied by FSB as female sections. Knobsets are created by joining two female parts together using the FSB Stabil spindle 0102.

Knob handles
Door knobs

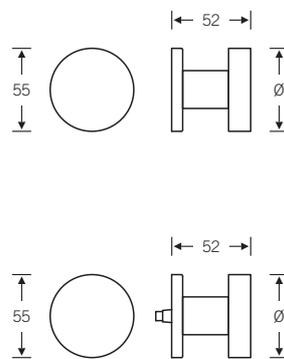


0829

- Bronze (Ø = 50 mm)
- Aluminium (Ø = 50 mm)
- AluGrey (Ø = 50 mm)
- Stainless steel (Ø = 55 mm)

8 mm □-hole

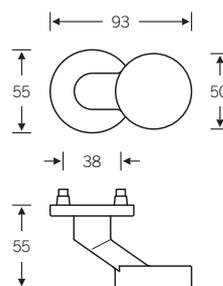
3



2329 ..

- Bronze (Ø = 50 mm)
- Aluminium (Ø = 50 mm)
- AluGrey (Ø = 50 mm)
- Stainless steel (Ø = 55 mm)

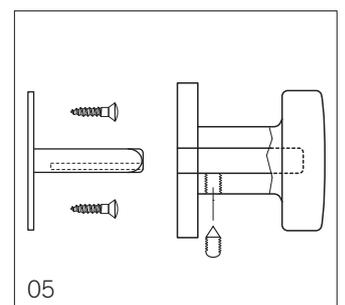
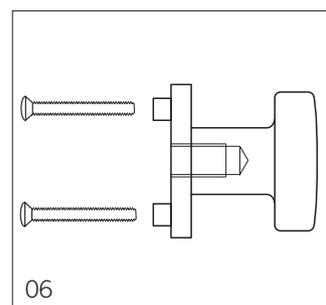
05 Concealed face fixing
06 Concealed through fixing
c:c screw holes 38 mm



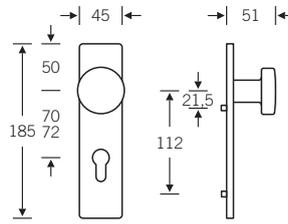
2309 06

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Concealed through fixing
c:c screw holes 38 mm



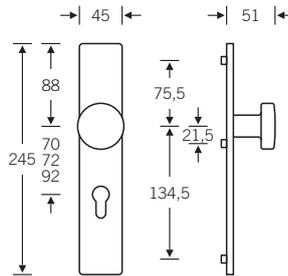
Knob backplates



1963 03

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Distance 70 + 72 mm
Concealed fixing

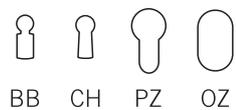


1970 03

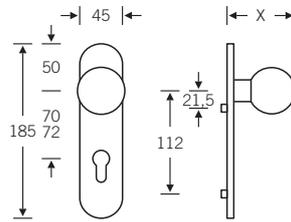
- Bronze
- Aluminium
- AluGrey
- Stainless steel

Distance 70, 72 + 92 mm
Concealed fixing

Keyholes



Knob backplates

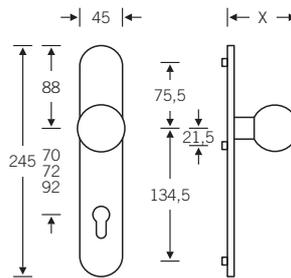
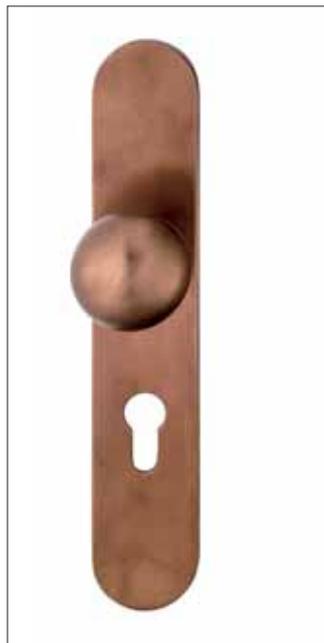


1964 03

- Bronze (X = 72 mm)
- Aluminium (X = 77 mm)
- AluGrey (X = 77 mm)
- Stainless steel (X = 73 mm)
- Brass (X = 72 mm)

Distance 70 + 72 mm
Concealed fixing

Fixing template 0477
cf. page 578



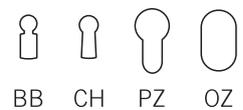
1927 03

- Bronze (X = 72 mm)
- Aluminium (X = 77 mm)
- AluGrey (X = 77 mm)
- Stainless steel (X = 73 mm)
- Brass (X = 72 mm)

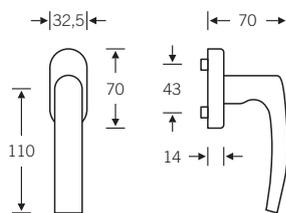
Distance 70, 72 + 92 mm
Concealed fixing

Fixing template 0476
cf. page 579

Keyholes



Window handles

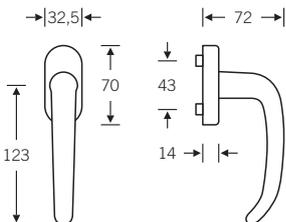


3424

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Window handle with click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □ spindle
projecting 30 mm

To match lever designs
1015 and 1045



3423

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass

Window handle with click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □ spindle
projecting 30 mm

To match lever design 1023

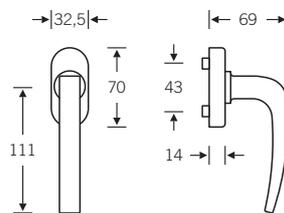


Window handles with standard spindle projection 30 mm available ex stock.

Technical information page 194

Other spindle projections available on request

Window handles



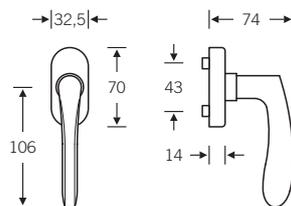
3433

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Window handle with click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □ spindle
projecting 30 mm

Design: Hans Kollhoff
To match lever design 1163

3



3736

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass

Window handle with click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □ spindle
projecting 30 mm

Design: Christoph Mäckler
To match lever design 1106

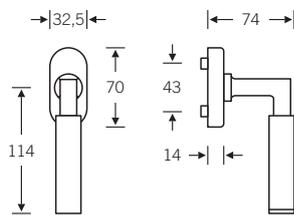


Window handles with standard spindle projection 30 mm available ex stock.

Technical information page 194

Other spindle projections available on request

Window handles

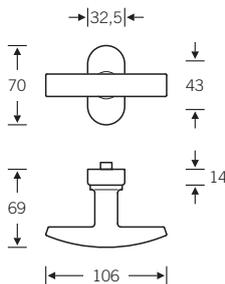


3432

- Bronze
- Aluminium
- AluGrey
- Stainless steel
- Brass

Window handle with click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □ spindle
projecting 30 mm

Design: Alessandro Mendini
To match lever design 1102



3453

- Bronze
- Aluminium
- AluGrey

Window handle with click-stop mechanism
lugs with 10 mm Ø
c:c mounting holes 43 mm
7 mm □ spindle
projecting 30 mm

Design: Hans Kollhoff
To match lever design 1163

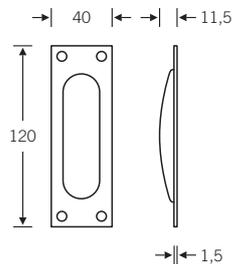


Window handles with standard spindle projection 30 mm available ex stock.

Technical information page 194

Other spindle projections available on request

Flush pull Door stops



4211

- Bronze
- Aluminium
- Stainless steel
- Brass

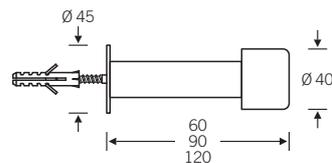
Mill out size in the door
87 x 28 x 10 mm

Boreholes for 3,0 mm
countersunk screws

Flush pull FSB 4211
is available:

- without keyhole
- with lever lock/BB keyhole
- with profile cylinder/PZ
keyhole

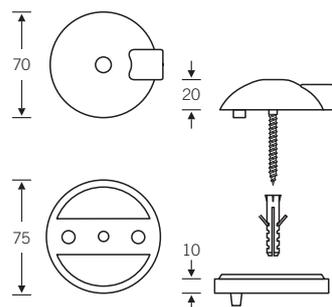
3



3880

- Bronze
- Aluminium
- Stainless steel

02 Length 120 mm
03 Length 90 mm
04 Length 60 mm



3884

- Bronze
- Aluminium
- Stainless steel
- Brass

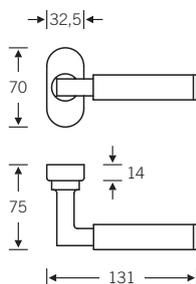
3884 10

Black baseplate

As with all architectural hardware, door stops will only give satisfaction if correctly fitted and properly used. Before ordering or fabricating, it is necessary to check the weight of the door leaf, the angle of contact, the height of the bottom of the door from the floor and the quality of the flooring itself.

Depending on requirements, it is then possible to choose between simple stops, stops with anti-skew capability, stops with baseplates, directional and non-directional stops and, finally, stops fitted straight into the floor or those where rawl-plugs are used.

Lever handles for framed doors

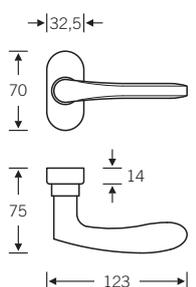


7202 25 8 mm □

7602 25 9 mm □

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Design: Alessandro Mendini

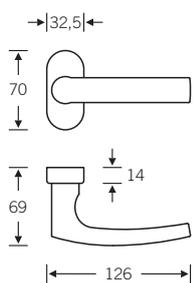


7206 25 8 mm □

7606 25 9 mm □

- Bronze
- Aluminium
- AluGrey
- Stainless steel

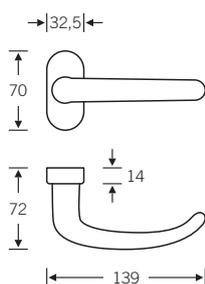
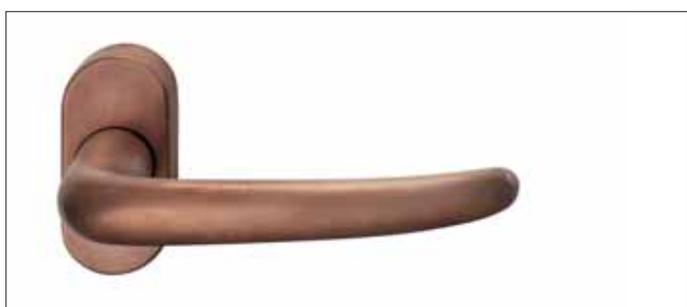
Design: Christoph Mäckler



7215 25 8 mm □

7615 25 9 mm □

- Bronze
- Aluminium
- AluGrey
- Stainless steel



7223 25 8 mm □

7623 25 9 mm □

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Lever handles for framed doors fixed on oval rose, with concealed fixing and support mechanism
8 mm □-hole
9 mm □-hole for fire and smoke stop doors*

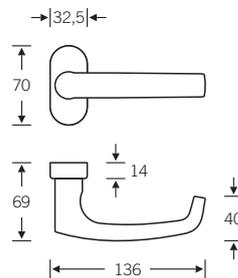
C:C screwholes 50 mm, for countersunk screws M5
Fixing accessories cf. section 9b, page 543

Rose for framed doors: FSB 1757 (PZ) cf. page 296

FSB Mortice locks* for framed doors with through fixing function cf. page 531ff.

* acc. to German DIN standard

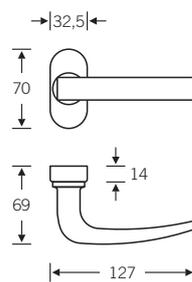
Lever handles for framed doors



7245 25 8 mm □

7645 25 9 mm □

- Bronze
- Aluminium
- AluGrey
- Stainless steel



7263 25 8 mm □

7663 25 9 mm □

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Design: Hans Kollhoff

3

Lever handles for framed doors fixed on oval rose, with concealed fixing and support mechanism
8 mm □-hole
9 mm □-hole for fire and smoke stop doors*

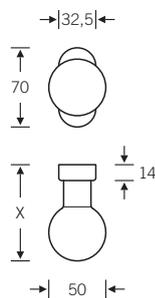
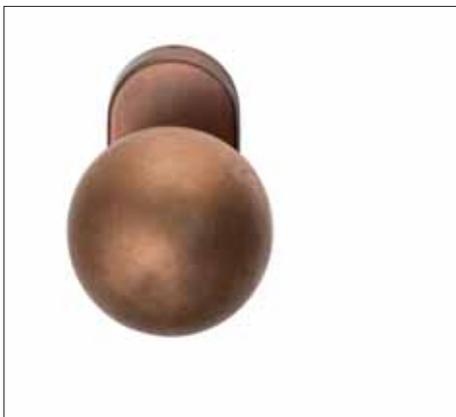
C:C screwholes 50 mm, for countersunk screws M5
Fixing accessories cf. section 9b, page 543

Rose for framed doors: FSB 1757 (PZ) cf. page 296

FSB Mortice locks* for framed doors with through fixing function cf. page 531ff.

* acc. to German DIN standard

Door knobs for framed doors



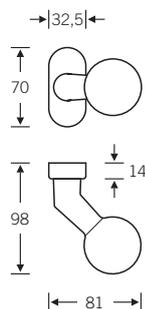
0602 2853 turnable

2302 2801 fixed

- Bronze (X = 80 mm)
- Aluminium (X = 85 mm)
- AluGrey (X = 85 mm)
- Stainless steel (X = 81 mm)

Turnable version with 8 mm □-hole

Fixed version with M12 thread



0638 2853 turnable

2346 2801 fixed

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Turnable version with 8 mm □-hole

Fixed version with M12 thread

C:C screwholes 50 mm, for countersunk screws M5
Fixing accessories cf. section 9b, page 543

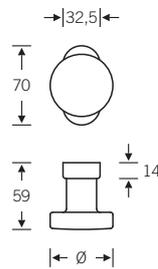
Rose for framed doors: FSB 1757 (PZ) cf. page 296

Protection roses for framed doors cf. page 51 or 450

FSB Mortice locks* for framed doors with through fixing function cf. page 531ff.

* acc. to German DIN standard

Door knobs for framed doors



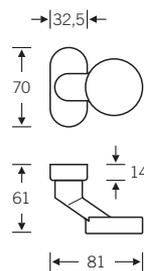
0629 2853 turnable
2329 2801 fixed

- Bronze (Ø = 50 mm)
- Aluminium (Ø = 50 mm)
- AluGrey (Ø = 50 mm)
- Stainless steel (Ø = 55 mm)

Turnable version with 8 mm □-hole

Fixed version with M12 thread

3



0609 2853 turnable
2309 2801 fixed

- Bronze
- Aluminium
- AluGrey
- Stainless steel

Turnable version with 8 mm □-hole

Fixed version with M12 thread

C:C screwholes 50 mm,
for countersunk screws M5
Fixing accessories cf. section
9b, page 543

Rose for framed doors:
FSB 1757 (PZ) cf. page 296

Protection roses for framed
doors cf. page 51 or 450

FSB Mortice locks* for framed
doors with through fixing func-
tion cf. page 531ff.

* acc. to German DIN standard

