



Butt and screw-on hinges

Hinges for historical buildings



Loads on hinges

When a hinge is chosen or specified, the load is often equated to the weight of the door. The load on the hinge can often exceed the weight of the door by several times owing to various influencing factors. It is essential to take imperatively account of the following criteria to prevent consequential damage at a later time:

- location (e.g. residential buildings, public buildings, administration, barracks, schools, nurseries etc.)
- material type of the element
- opening frequency
- door dimensions (overlapping width)
- arrangement of the hinges
- installation of the hinges
- outward opening doors (wind trap)
- door stops
- door closers
- wall soffits
- etc.

Even if these different criteria are taken into account, an additional reserve should always be calculated when a hinge is selected. Particularly in public buildings, where unusual loads occur due to the incalculably high opening frequency and wear (nurseries, barracks etc.), sufficiently proportioned hinges should be used even if this is unnecessary owing to the simple weight of the door.

Finally, the hinge is only as good as its installation. Professional fitting and appropriate mounting are therefore essential. Only correctly fitted hinges can fulfil their intended purpose.

The material strength of the component to be fitted is the basis of the respective function of the hinge. If questions arise regarding the correct choice of a hinge in special cases, we will be delighted to help.

Please contact us.

Anticorrosive measures

Permanent anticorrosive properties are provided by galvanised or colour powder coated hinges. In damp rooms and for components exposed to the weather, only hinges made of stainless steel should be used because only this material guarantees resistance to corrosion. This material must also be maintained occasionally under extreme conditions (such as in coastal regions, breweries etc.) to remove rust film or deposits.

All other finishes are for appearance only.

Maintenance of butt hinges and screw-on hinges

Only the maintenance-free butt hinges and screw-on hinges require no initial greasing and no subsequent maintenance. The concealed, maintenance-free and abrasion resistant special slide bearings guarantee excellent operating properties and a long service life.

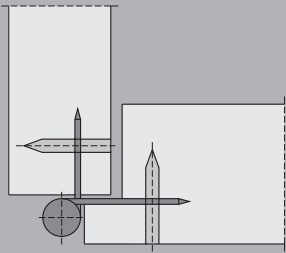
To achieve minimum abrasion and easy, silent operation of the butt hinges and screw-on hinges which are **not** maintenance-free, it is essential to grease the hinges after installation. Depending on the frequency of use, the hinges must be greased occasionally. Black traces of dust at the hinges are a clear sign of material abrasion due to inadequate maintenance.

Special designs

If no hinge listed in this catalogue can be used for special designs, please send a scale cross-section drawing of the component design, if possible in 1 : 1 scale, to SIMONSWERK. We will quickly determine whether a correspondingly modified hinge can fulfil the requirements.

Cabinet and window hinges for rebated sashes

BUTT HINGES



Cabinet hinge A

with ring pin, offset flaps, for mortising, with nail holes

Finishes available:

galvanised

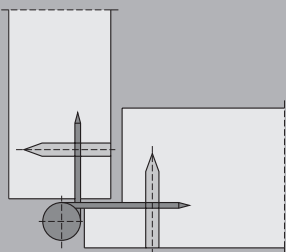
Packing unit:

20 pieces

Please specify right- or left-hand according to DIN!

Technical details:

Size	mm	60	80	100
Diameter of pin	mm	4.5	5.5	7
Thickness of material	mm	1.25	1.5	1.5
Length of frame flap	mm	14	18	21
Length of sash flap	mm	14	23	26
Diameter of hole	mm	2.5	3	3.5



Cabinet hinge A 100 ZK

with ring pin, offset flaps, for mortising, with nail holes and ornamental tip

Finishes available:

bright finish, bronzed, gilded, antique japanned and antique bronzed

Packing unit:

10 pieces

Please specify right- or left-hand according to DIN!

Technical details:

Size	mm	100
Diameter of pin	mm	7
Thickness of material	mm	1.5
Length of frame flap	mm	21
Length of sash flap	mm	26
Diameter of hole	mm	3.5

Window hinge C 2/C 3

Frame flap in the centre, for mortising, with nail holes

Finishes available:

galvanised

Packing unit:

10 pieces

C 2 (with fixed pin) please specify right- or left-hand!

C 3 (with loose pin, not illustrated) can be used for right- and left-hand!



Technical details:

Size	mm	80*	100	120	
Diameter of pin	mm	7	8	9	
Thickness of material	mm	1.75	2	2.25	
Length of frame flap	mm	16	22	24	
Length of sash flap	mm	22	27	30	
Diameter of hole	mm	3	3.5	3.5	* C 3 version not available

Window hinge C 3 100 ZK

Frame flap in the centre, for mortising, with nail holes and ornamental tip

Finishes available:

galvanised

Packing unit:

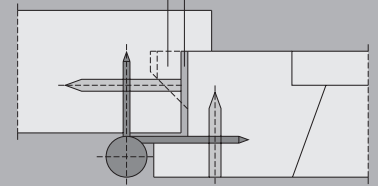
10 pieces



Technical details:

Size	mm	100
Diameter of pin	mm	8
Thickness of material	mm	2
Length of frame flap	mm	22
Length of sash flap	mm	27
Diameter of hole	mm	3.5

compression rebate straight rebate



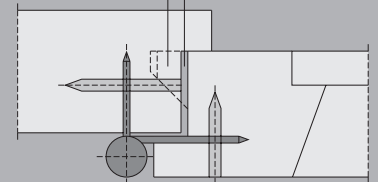
Centre frame wing for straight and compression rebate

Note:

Apply brass or ball bearing races for hinges with loose pins.

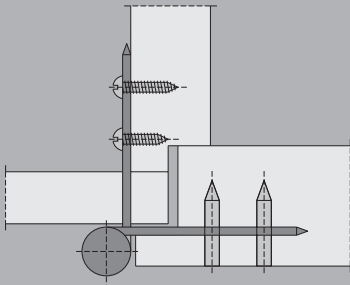
C 3 = Ø 8 mm or 9 mm

compression rebate straight rebate



Door hinges for rebated sashes

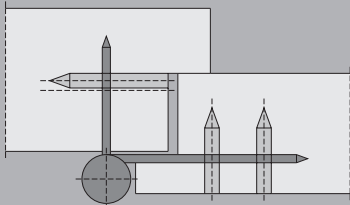
BUTT HINGES



Note:

Apply brass or ball bearing races for hinges with loose pins.

G 3 = Ø 10 mm or 11 mm



Note:

Apply brass or ball bearing races for hinges with loose pins.

G 5 = Ø 10 mm or 11 mm



Door hinge G 1/G 3

for doors with casing frame and casing-lining, offset flaps, for mortising, with nail holes

Finishes available:

galvanised

Packing unit:

10 pieces

G 1 (with fixed pin) please specify right- or left-hand!

G 3 (with loose pin, not illustrated) can be used for right- and left-hand!

Technical details:

Size	mm	140	160
Diameter of pin	mm	10	11
Thickness of material	mm	2.5	2.75
Flap length	mm	50	55
Diameter of hole	mm	4.5	5



Door hinge G 4/G 5

for doors with blind frames, with short frame flap to centre, for mortising, with nail holes

Finishes available:

galvanised

Packing unit:

10 pieces

G 4 (with fixed pin 25 mm) please specify right- or left-hand!

G 5 (with loose pin, not illustrated) can be used for right- and left-hand!

Technical details:

Size	mm	140	160
Diameter of pin	mm	10	11
Thickness of material	mm	2.5	2.75
Length of frame flap	mm	33	33
Length of sash flap	mm	50	55
Diameter of hole	mm	4.5	5

Door hinges for rebated sashes

BUTT HINGES

Door hinge G 6/G 7

(Düsseldorf type)

for doors with casing frame and casing-lining, offset flaps, with long frame flaps and 3 countersunk holes, sash flaps for mortising, with nail holes

Finishes available:

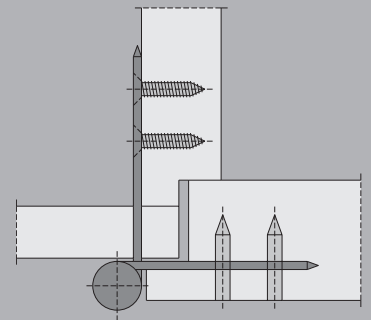
galvanised

Packing unit:

10 pieces

G 6 (with fixed pin) please specify right- or left-hand!

G 7 (with loose pin, not illustrated) can be used for right- and left-hand!



Technical details:

Size	mm	140
Diameter of pin	mm	10
Thickness of material	mm	2.5
Length of frame flap	mm	60
Length of sash flap	mm	50
Diameter of hole	mm	4.5
Diameter of screws DIN 97	mm	5

Note:

Apply brass or ball bearing races for hinges with loose pins.

G 7 = Ø 10 mm

Door hinge QF 1/QF 2

for doors, flap right angled,
for screw fitting

Finishes available:

galvanised,

QF 1/140 and QF 2/140 also nickel plated,

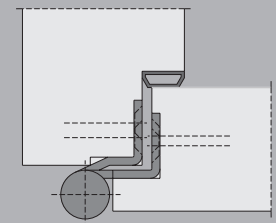
brass plated and bronzed

Packing unit:

10 pieces

QF 1 (with fixed pin) please specify right- or left-hand!

QF 2 (with loose pin, not illustrated) please specify right- or left-hand!



Technical details:

Size	mm	140	160
Cutter Ø frame	mm	20	21
Cutter Ø sash	mm	20	27
Diameter of pin	mm	10	12
Thickness of material	mm	2.5	3
Diameter of screws DIN 97	mm	5	5

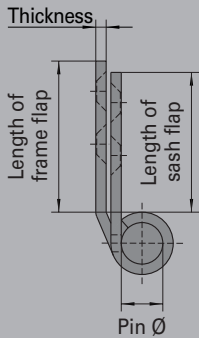
Note:

Apply brass or ball bearing races for hinges with loose pins.

QF 2 = Ø 10 mm or 12 mm

Door hinges for unrebbated sashes

BUTT HINGES



Door hinge H

(Berlin type)

edged, for flush mounted doors with blind frame or casing frame and casing-lining, with loose pin, parallel flaps, both with countersunk holes for screw fitting, frame flap cranked at the knuckle by thickness of material plus 1 mm

Finishes available:

galvanised

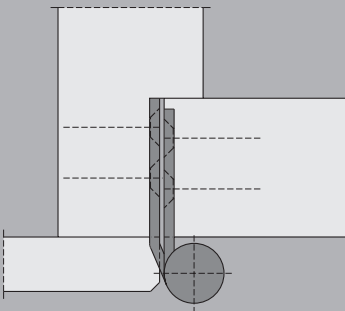
Packing unit:

10 pieces

Applicable for right- and left-hand!

Technical details:

Size	mm	120	140	160	180
Diameter of pin	mm	9	10	11	12
Thickness of material	mm	2.25	2.5	2.75	3.5
Length of frame flap	mm	30	36	40	40
Length of sash flap	mm	27	33	37	37
Diameter of screws DIN 97	mm	5	5	5	5



Door hinge H 160 ZK

(Berlin type)

edged, for flush mounted doors with blind frame or casing frame and casing-lining, with loose pin, parallel flaps, both with countersunk holes for screw fitting, frame flap cranked at the knuckle by thickness of material plus 1 mm

Finishes available:

galvanised

Applicable for right- and left-hand!

Technical details:

Size	mm	160
Total length	mm	242
Diameter of pin	mm	11
Thickness of material	mm	2.75
Length of frame flap	mm	40
Length of sash flap	mm	37
Diameter of screws DIN 97	mm	5

Note:

Apply brass or ball bearing races for hinges with loose pins.

H = Ø 10 mm or 11 mm

Door hinges for unrebated sashes

BUTT HINGES

Door hinge P

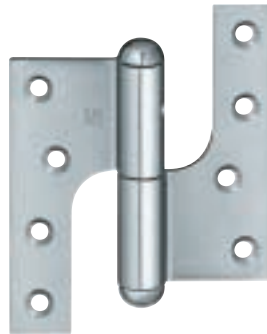
edged, for flush mounted doors with blind frame or casing frame and casing-lining, with fixed pin, flap to centre, with countersunk holes for screw fitting

Finishes available:

galvanised

Packing unit:

10 pieces



Please specify right- or left-hand according to DIN!

Technical details:

Size	mm	100
Diameter of pin	mm	11
Thickness of material	mm	3
Flap length	mm	38
Flap width and diameter of cutter	mm	22
Diameter of screws DIN 97	mm	5

Door hinge QR 70

for flush mounted doors with blind frame or casing frame and casing-lining, with rounded flaps, flap to centre, with countersunk holes for screw fitting

Finishes available:

galvanised, nickel plated, brass plated and bronzed

Packing unit:

20 pieces

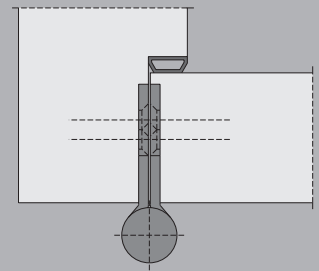
200 pieces galvanised



Please specify right- or left-hand according to DIN!

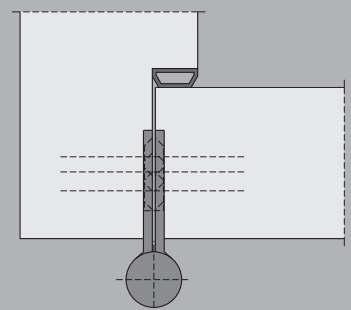
Technical details:

Size	mm	70
Diameter of pin	mm	10
Thickness of material	mm	2.5
Flap length	mm	32
Flap width and diameter of cutter	mm	20
Diameter of screws DIN 97	mm	5



Note:

Decorative brass sleeves P 100 with ornamental tip are available in finish polished brass for door hinge P.

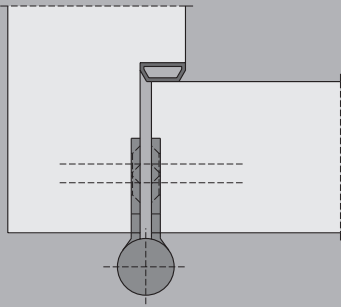


For fitting with:

- milling frame no. 118 with milling template no. 11812739

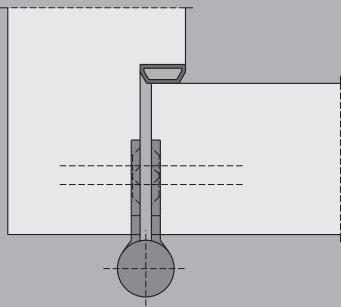
Door hinges for unrebated sashes

BUTT HINGES



For fitting with:

- milling frame no. 118 with milling template no. 11812704



For fitting with:

- milling frame no. 118 with milling template no. 11812704



maintenance-free slide bearing technology



Door hinge QR 100

for flush mounted doors with blind frame or casing frame and casing-lining, with rounded flaps, flap to centre, with countersunk holes for screw fitting and with fixed pin

Finishes available:

galvanised, nickel plated, brass plated and bronzed

Packing unit:

10 pieces

Please specify right- or left-hand according to DIN!

Technical details:

Size	mm	100
Diameter of pin	mm	10
Thickness of material	mm	2,5
Flap length	mm	26,5
Flap width and diameter of cutter	mm	20
Diameter of screws DIN 97	mm	5



Door hinge QR 100 ZK

for flush mounted doors with blind frame or casing frame and casing-lining, with rounded flaps, flap to centre, with countersunk holes for screw fitting, with fixed pin and decorative tip and maintenance-free slide bearings

Finishes available:

bright steel, galvanised, bronzed, gilded, antique japanned and antique bronzed

Packing unit:

10 pieces galvanised

Please specify right- or left-hand according to DIN!

Technical details:

Size	mm	100
Diameter of pin	mm	10
Thickness of material	mm	2,5
Flap length	mm	26,5
Flap width and diameter of cutter	mm	20
Diameter of screws DIN 97	mm	5

Door hinges for unrebated sashes

BUTT HINGES

Door hinge Q 1/Q 2

for flush mounted doors with blind frame or casing frame and casing-lining, flap to centre, with countersunk holes for screw fitting

Finishes available:

galvanised, 140 mm also nickel plated, brass plated and bronzed and yellow galvanised

Packing unit:

10 pieces



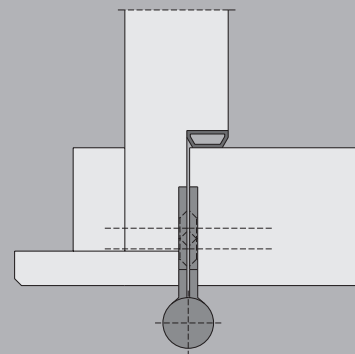
QF 1 (with fixed pin) please specify right- or left-hand!

QF 2 (with loose pin, not illustrated) please specify right- or left-hand!

Technical details:

Size	mm	80*	100	120	140	160
Diameter of pin	mm	7	8	9	10	11
Thickness of material	mm	2.5	2.75	2.75	2.5	2.75
Flap length	mm	28	33	37	32	35
Screws DIN 97 Ø	mm	4	4.5	5	5	5

* Q 2 version not available



Note:

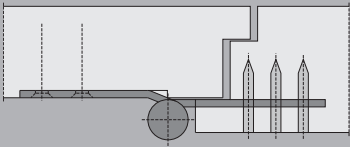
Decorative sleeves are available for door hinge Q 1/120 mm.

Apply brass or ball bearing races for hinges with loose pins.

Q 2 = Ø 8 mm, 9 mm, 10 mm or 11 mm

Gate hinges for rebated and unrebated sashes

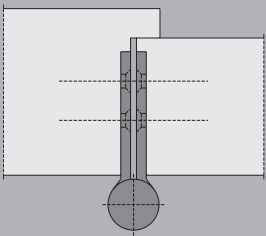
BUTT HINGES



Note:

Apply brass or ball bearing races for hinges with loose pins.

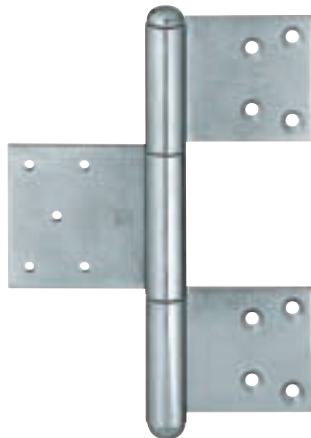
T 7 = Ø 14 mm or 16 mm



Note:

Apply brass or ball bearing races for hinges with loose pins.

T 9 = Ø 14 mm or 16 mm



Gate hinge T 7

3-part, for rebated gates, with loose, galvanised pin

Finishes available:

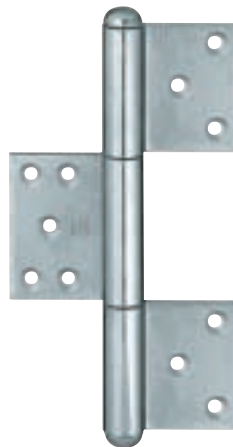
galvanised

Packing unit:

6 pieces

Technical details:

Size	mm	220	260
Diameter of pin	mm	14	16
Thickness of material	mm	4	5
Height and length of the frame flaps	mm	70 x 70	80 x 80
Height and length of the sash flap	mm	80 x 75	100 x 100
Diameter of hole	mm	5.5	7
Diameter of screws DIN 97	mm	6	6



Gate hinge T 9

3-part, for unrebated gates, with loose, galvanised pin

Finishes available:

galvanised

Packing unit:

6 pieces

Technical details:

Size	mm	220	260
Diameter of pin	mm	14	16
Thickness of material	mm	4	5
Height and length of the frame flaps	mm	70 x 50	80 x 65
Height and length of the sash flap	mm	80 x 50	100 x 65
Diameter of hole	mm	7	7
Diameter of screws DIN 97	mm	6	6

Corner plate Z 2

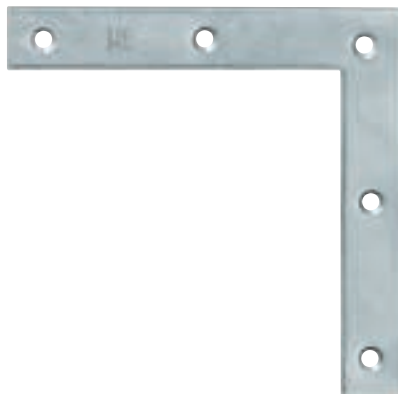
edged version

Finishes available:

galvanised

Packing unit:

100 pieces



Technical details:

Size	mm	100	120
Width	mm	16	20
Diameter of screws DIN 97	mm	3	3

Corner plate Z 4

rounded version

Finishes available:

galvanised

Packing unit:

100 pieces



Technical details:

Size	mm	100	120
Width	mm	16	20
Diameter of screws DIN 97	mm	3	3

Your SIMONSWERK-partner:



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