

# 4

HÄFELE

## DOOR HINGES

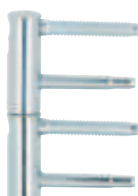




### Information



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## Classification of hinges in compliance with EN 1935:2002

The requirements and test procedures for single-axe butt hinges and hinges with fixed pins for entrance doors and windows are defined in European standard EN 1935:2002 "Architectural hardware, single-axe door and window hinges". The requirements are classified using an 8-digit designation system.

### 8-digit classification key in accordance with EN 1935:2002

| Position<br>1 | 2          | 3                   | 4   | 5      | 6                    | 7                                 | 8           |
|---------------|------------|---------------------|---|--------|----------------------|-----------------------------------|-------------|
| Hinge class   | Durability | Weight of test door | Suitability for use on fire resistant/smoke control doors | Safety | Corrosion resistance | Security: Forced entry resistance | Hinge grade |

### Meaning of individual positions in classification key:

| Position   | Possible grades | Meaning  |
|--|-----------------|--|
| 1 Hinge class  | 1 – 4           | 1 = light use<br>(hinges for doors or windows in houses or other residential areas and in buildings in which the doors/windows are infrequently used by persons who are inclined to take care, whereby there is a certain risk of accidents or abuse occurring.) |
|  |                 | 2 = medium use<br>(hinges for doors in houses or other residential areas and in buildings in which the doors/windows are fairly frequently used by persons who are inclined to take care, whereby there is a certain risk of accidents or abuse occurring.)      |
|  |                 | 3 = heavy use<br>(hinges for doors in buildings in which the doors/windows are extremely frequently used by the public or other users who are not inclined to use them carefully, and where there is a high risk of accidents or abuse occurring.)               |
|  |                 | 4 = extremely heavy use<br>(hinges for doors that are subjected to frequent slamming.)   |
| 2 Durability   | 3 – 4, 7        | 3 = 10,000 cycles (window hinges)  |
|  |                 | 4 = 25,000 cycles (window and door hinges)   |
|  |                 | 7 = 200,000 cycles (door hinges)   |
| 3 Weight of test door  | 0 – 7           | 0 = 10 kg  |
|  |                 | 1 = 20 kg  |
|  |                 | 2 = 40 kg  |
|  |                 | 3 = 60 kg  |
|  |                 | 4 = 80 kg  |
|  |                 | 5 = 100 kg   |
|  |                 | 6 = 120 kg   |
| 4 Suitability for use on fire resistant/smoke control doors* | 0 – 1           | 0 = not suitable for use on fire resistant/smoke control doors   |
|  |                 | 1 = suitable for use on fire resistant/smoke control doors   |



| Position                            | Possible grades | Meaning   |
|-------------------------------------|-----------------|---|
| 5 Safety                            | 1               | 1 = all hinges must meet the basic safe usage requirements. For this reason, only one grade (grade 1) has been defined.   |
| 6 Corrosion resistance              | 0 – 5           | 0 = no defined corrosion resistance<br>1 = low corrosion resistance<br>2 = medium corrosion resistance<br>3 = high corrosion resistance<br>4 = extremely high corrosion resistance<br>5 = extraordinarily high corrosion resistance |
| 7 Security: Forced entry resistance | 0 – 1           | 0 = not suitable for use on forced entry resistant doors<br>1 = suitable for use on forced entry resistant doors  |
| 8 Hinge grade                       | 1 – 14          | With increased requirements ( <b>see following table</b> )  |

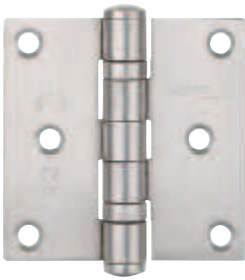
\* The proven fire resistant properties can be found in the relevant report.

## Definition of individual hinge grades:

| Position<br>8 Hinge grade | 1 Hinge class            | 2 Durability       | 3 Weight of test door |
|---------------------------|--------------------------|--------------------|-----------------------|
| 1                         | 1 (light duty)           | 3 (10,000 cycles)  | 0 (10 kg)             |
| 2                         | 1 (light duty)           | 3 (10,000 cycles)  | 1 (20 kg)             |
| 3                         | 1 (light duty)           | 4 (25,000 cycles)  | 1 (20 kg)             |
| 4                         | 2 (medium duty)          | 7 (200,000 cycles) | 1 (20 kg)             |
| 5                         | 1 (light duty)           | 3 (10,000 cycles)  | 2 (40 kg)             |
| 6                         | 1 (light duty)           | 4 (25,000 cycles)  | 2 (40 kg)             |
| 7                         | 2 (medium duty)          | 7 (200,000 cycles) | 2 (40 kg)             |
| 8                         | 1 (light duty)           | 3 (10,000 cycles)  | 3,000 mm              |
| 9                         | 1 (light duty)           | 4 (25,000 cycles)  | 3,000 mm              |
| 10                        | 2 (medium duty)          | 7 (200,000 cycles) | 3,000 mm              |
| 11                        | 3 (heavy duty)           | 7 (200,000 cycles) | 4 (80 kg)             |
| 12                        | 4 (extremely heavy duty) | 7 (200,000 cycles) | 5 (100 kg)            |
| 13                        | 4 (extremely heavy duty) | 7 (200,000 cycles) | 6 (120 kg)            |
| 14                        | 4 (extremely heavy duty) | 7 (200,000 cycles) | 7 (160 kg)            |



Example: "Door hinge for flush doors, size 76 mm" (certified in compliance with EN 1935:2002)



• Classification code:

474114011

| Position  | Meaning   |
|---|---|
| 1 Hinge class   | Grade 4:<br>Extremely heavy duty use                                |
| 2 Durability  | Grade 7:<br>200,000 cycles (door hinges)                            |
| 3 Weight of test door                                       | Grade 4:<br>80 kg   |
| 4 Suitability for use on fire resistant/smoke control doors | Grade 1:<br>Suitable for use on fire resistant/ smoke control doors |
| 5 Safety  | Grade 1:<br>All hinges must meet the basic safe usage requirements. |
| 6 Corrosion resistance                                      | Grade 4:<br>Very high corrosion resistance                          |
| 7 Security:<br>Forced entry resistance                      | Grade 0:<br>Not suitable for use on forced entry resistant doors    |
| 8 Hinge grade   | Grade 11:<br>Extremely heavy duty use, 200,000 cycles, 80 kg        |

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## Door hinges – subdivision

The hinges in this catalogue are subdivided into the following groups:

**Drill-in hinges**

- > Wing parts and frame parts for interior doors
- > Drill-in hinges for interior and front doors
- > Recessed hinges for front doors

**Butt Hinges**

- > Butt hinges for interior and front doors
- > Drill-in hinges and butt hinges
- > Spring hinges for interior doors
- > Double action spring hinges for interior doors
- > Concealed mortice hinges
- > Butt hinges for architectural doors

The section of **Drill-in hinges and recessed hinges** includes all door hinges where components are drilled or recessed into door panels and door frames.

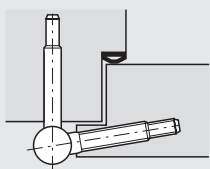
The section **Frame and wing parts** contains individual components of door hinges, where only the combination thereof make up a complete door hinge.

2-piece and 3-piece frame and wing parts can be combined into door hinges for steel and for wooden frames.

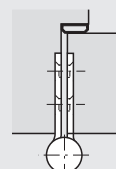
**Butt hinges** are not fixed in the door frame or door panel, they are screwed onto the door structure.

**Concealed mortice hinges** are mounted so that they are not visible from outside when the door is closed.

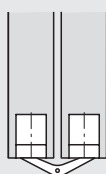
4



Drill-in hinge



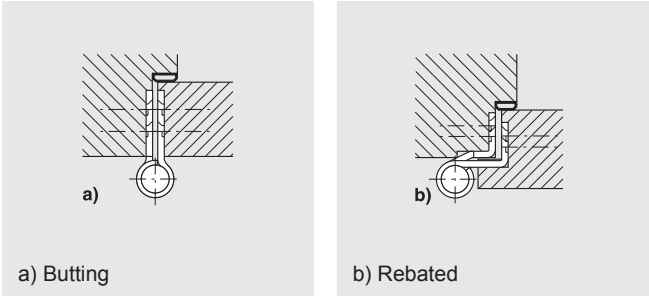
Butt hinge



Concealed mortice hinge

Mounting situation

The mounting situation of a door includes the door rebate, the frame material, the frame type as well as the opening direction of the door. The difference between the door rebates is explained in the following illustrations.

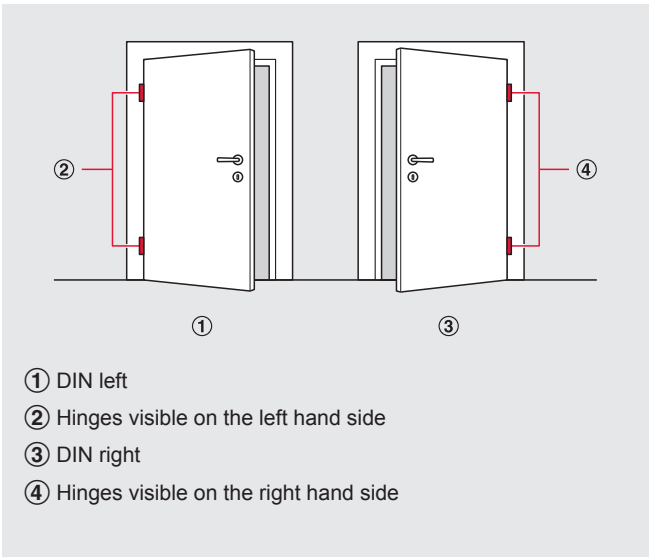


The door panels are fitted to a long edge of the frame with hinged doors. The pivot direction determines left or right hand doors. It is important, on which side the door is fitted. When choosing a door hinge, the pivot direction of the door must be considered, as not all door hinges can be used on the left and right hand side.

Door mounting – DIN left or DIN right

The pivot direction determines left or right hand doors. The door direction or side definition according to DIN 107 is determined as follows:

- > Visible position of the door hinges on the left = **DIN left**
- > Visible position of the door hinges on the right = **DIN right**

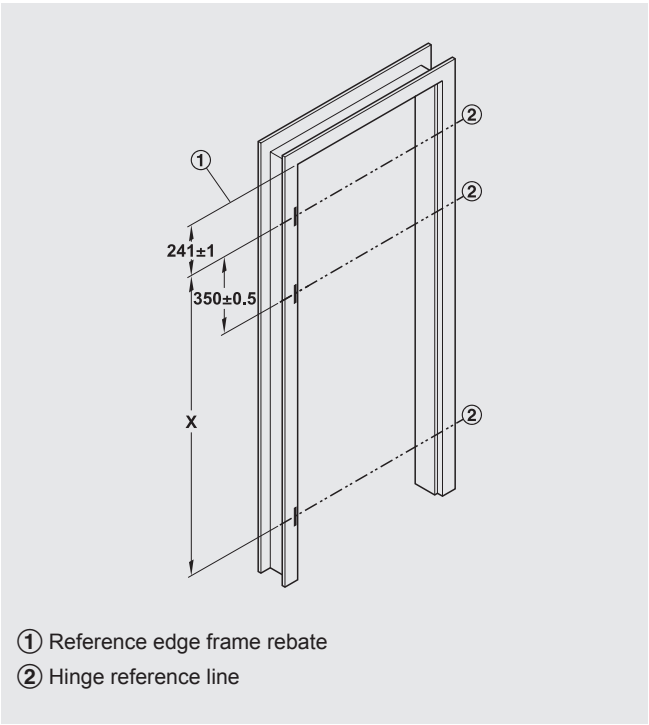


Hinge reference line

The hinge reference line is an imaginary line, running parallel with the upper frame rebate. The distance between the hinge reference line and the upper frame rebate determines the position of the hinge. It is always illustrated as a dash-dot-dot line. The following illustration shows the hinge reference line according to DIN 18101.

The hinge reference line is independent from the hinge type and manufacturer. The distance of the hinge reference line of the upper door hinge to the frame rebate is always  $241 \pm 1$  mm. The distance between the upper and lower door hinge depends on the door height. For example, on a door of 2,000 mm height, the distance between both hinge reference lines is  $1,435 \pm 0.5$  mm.

If the door panel is fitted with 3 hinges, the distance between the upper and centre door hinge reference line is  $350 \pm 0.1$  mm.



- ① Reference edge frame rebate
- ② Hinge reference line

| Wall openings for doors <sup>a</sup><br>(block work standard<br>dimensions in accordance<br>with DIN 18100)<br>Height in mm | Hinge distances between<br>the hinge reference lines<br>for upper and lower hinge<br><br>Dim. X $\pm 0.5$ mm |
|---|--|
| 1625  | 1060   |
| 1750  | 1185   |
| 1875  | 1310   |
| 2,000   | 1435   |
| 2125  | 1435   |
| 2250  | 1685   |
| 2375  | 1810   |
| 2,500   | 1935   |
| 2625  | 2060   |
| 2750  | 2185   |



## Max. door weight

The max. permissible door weight generally refers to a door (1 x 2 m) which is mounted with two hinges (or even three hinges).

For doors wider than 100 cm, the following formula for **calculating** the **increase** of the door mass (door weight) must be used:

Calculation:

- a) Door height divided by door width = X
- b) Factor 2 minus X = increase of door mass %

Example calculation:

Door height 2,000 mm

Door width 1,100 mm

a)  $2,000 / 1,100 \text{ mm} = 1.82$

b)  $2 - 1.82 = 0.18$

= increase of the door mass by 18%.

When selecting the hinge type it must be considered that the actual load in practice can exceed the door weight considerably due to following factors:

- > Installation site (e.g. residential buildings, public buildings)
- > Material of the door panel and door frame
- > Opening frequency of the door
- > Door dimensions (extra wide)
- > Opening direction of the door (e.g. outwards opening doors)
- > Position and installation of the door hinges
- > Door stop
- > Door closer

Therefore when selecting a door hinge, especially for public buildings, a weight buffer should always be taken into consideration.

## Protection against corrosion

The door hinges in this catalogue are available with different finishes. However, only galvanized and coloured powder coated hinges that have been galvanized prior to powder coating have long-term protection from corrosion.

Even so, these hinges are not sufficiently protected from corrosion in wet rooms and outdoors.

Corrosion resistance is verified by testing in accordance with the EN 1670 standard.

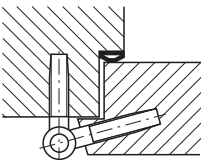


FI 1 Drill-in hinge



- > Area of application: For wooden frames, for rebated wooden interior doors
- > Door weight: ≤40 kg
- > Knuckle Ø: 13 mm
- > Mounting: For DIN left and DIN right hand use
- > Standard: Certified in compliance with EN 1935:2002
- > Class: 2 7 2 0 1 2 0 7

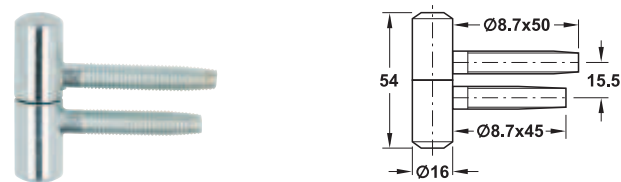
Installation



| Material | Finish           | Cat. No.   |
|----------|------------------|------------|
| Steel    | White galvanized | 922.24.090 |

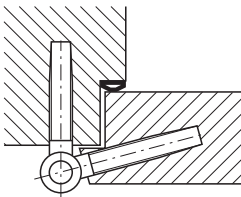
Packing: 10 pieces

FI 2 Drill-in hinge



- > Area of application: For wooden frames, for rebated wooden interior doors
- > Door weight: ≤100 kg
- > Knuckle Ø: 16 mm
- > Mounting: For DIN left and DIN right hand use
- > Standard: Certified in compliance with EN 1935:2002
- > Class: 4 7 5 0 1 2 0 12

Installation



| Material | Finish           | Cat. No.   |
|----------|------------------|------------|
| Steel    | White galvanized | 922.24.190 |

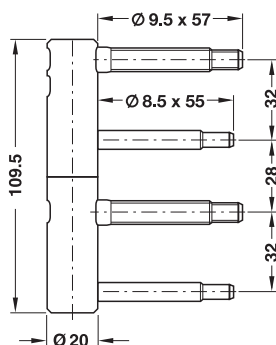
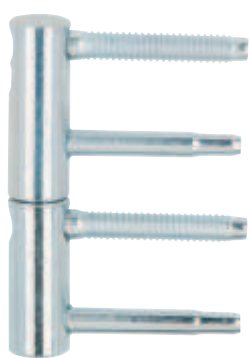
Packing: 10 pieces

Decorative sleeves

► AH 4.16



### FI 5 Drill-in hinge

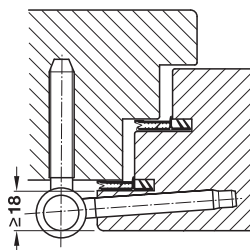


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- > Area of application: For wooden frames, for rebated wooden front doors
- > Door weight: ≤120 kg
- > Knuckle Ø: 20 mm
- > Overlay distance: ≥18 mm
- > Bearing: Maintenance-free friction bearing technology
- > Security device: With security pin for outward opening doors or without security pin (optional)
- > Adjustment facility: Continuously 3D adjustable:  
Height +4 mm,  
side and closing pressure +3 / -2 mm  
For DIN left and DIN right hand use
- > Mounting:
- > Standard: Certified in compliance with EN 1935:2002
- > Class: 

|   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|----|
| 4 | 7 | 6 | 0 | 1 | 2 | 1 | 13 |
|---|---|---|---|---|---|---|----|

#### Installation



| Material | Finish           | With security pin | Without security pin |
|----------|------------------|-------------------|----------------------|
| Steel    | White galvanized | 922.24.590        | 922.24.490           |

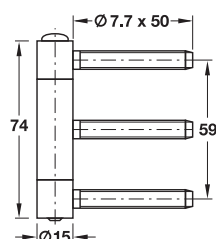
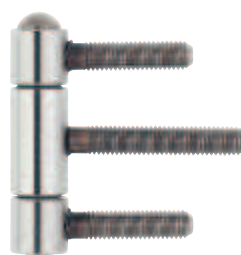
Packing: 12 pieces

Decorative sleeves

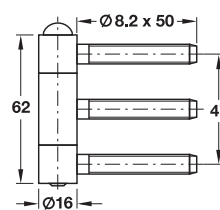
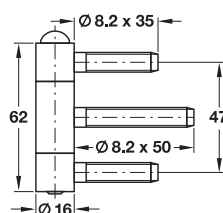
► AH 4.16

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## Herkula 316 GL-RA, Herkula 316 GL-FR



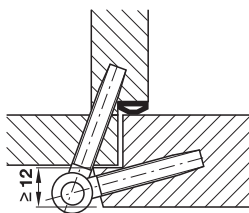
Herkula 315 GL-FR  
for lining frames



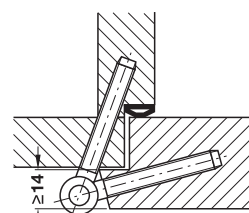
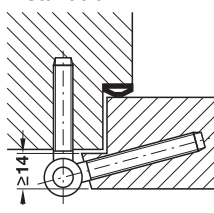
Herkula 316 FR  
for lining frame doors

- > Area of application: For wooden frames,  
for rebated wooden interior doors
- > Version: For blind frames or lining frames (optional)
- > Door weight: ≤60 kg
- > Knuckle Ø: 16 mm
- > Drill bit Ø : 6.7 mm step 1,  
7.7 mm step 2
- > Overlay distance: ≥14 mm
- > Bearing: Maintenance-free friction bearing  
technology
- > Mounting: For DIN left and DIN right hand use

## Installation



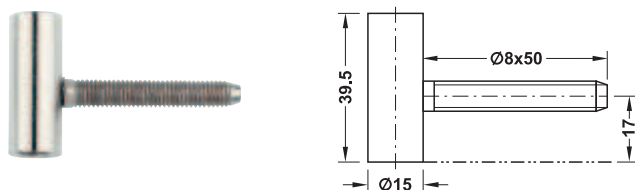
Herkula 315 GL-FR



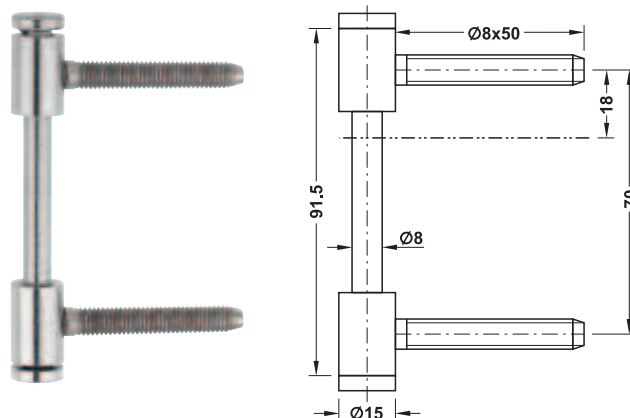
Herkula 316 GL-FR

| Material                                   | Finish           | Cat. No.   |
|--|------------------|------------|
| <b>Herkula 316 GL-RA for blind frames</b>  |                  |            |
| Stainless steel                            | Satin            | 922.40.303 |
| Steel                                      | Nickel plated    | 922.40.370 |
|  | White galvanized | 922.40.390 |
| <b>Herkula 316 GL-FR for lining frames</b> |                  |            |
| Stainless steel                            | Satin            | 922.40.203 |
| Steel                                      | Nickel plated    | 922.40.270 |

## Wing part



## Wing part

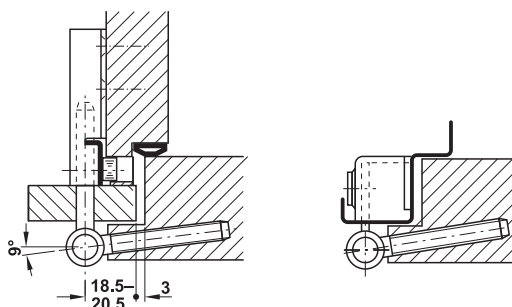


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- > Area of application: For rebated wooden interior doors
- > Door weight: ≤40 kg
- > Knuckle Ø: 15 mm
- > Installation: Suitable for drill-in and screw-in machines
- > Drill bit Ø: 6.8 mm
- > Mounting: For DIN left and DIN right hand use

- > Area of application: For rebated wooden interior doors
- > Door weight: ≤70 kg
- > Knuckle Ø: 15 mm
- > Drill bit Ø: 6.8 mm
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use

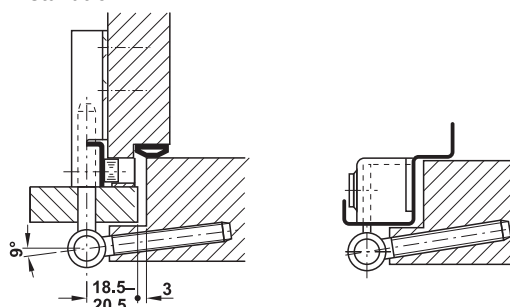
## Installation



With frame part on lining frames      With frame part on steel frames

| Material        | Finish        | Packing  | Cat. No.   |
|-----------------|---------------|----------|------------|
| Stainless steel | Satin         | 1 or 50  | 922.32.003 |
| Steel           | Nickel plated | 10 or 50 | 922.32.071 |

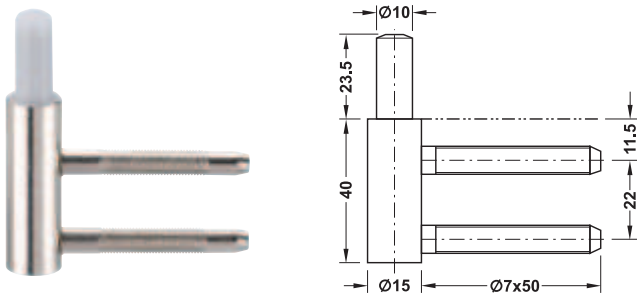
## Installation



With frame part on lining frames      With frame part on steel frames

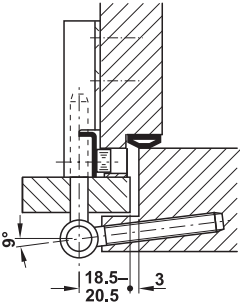
| Material        | Finish        | Packing | Cat. No.   |
|-----------------|---------------|---------|------------|
| Stainless steel | Satin         | 1 or 50 | 922.32.503 |
| Steel           | Nickel plated | 1 or 50 | 922.32.571 |

Frame part



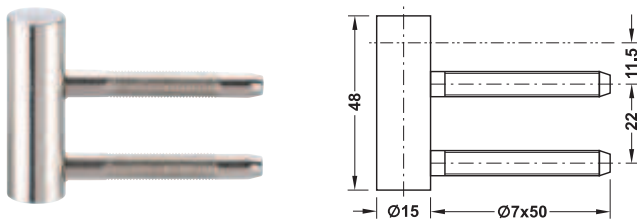
- > Area of application: For wooden frames, for rebated and flush interior doors
- > Door weight: ≤40 kg
- > Knuckle Ø: 15 mm
- > Drill bit Ø: 7.2 mm
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use
- > For use in combination with receiver

Installation



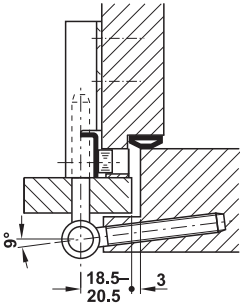
| Material        | Finish        | Packing | Cat. No.   |
|-----------------|---------------|---------|------------|
| Stainless steel | Satin         | 1 or 50 | 922.32.203 |
| Steel           | Nickel plated | 1 or 50 | 922.32.271 |

Frame part



- > Area of application: For wooden frames, for rebated and flush interior doors
- > Door weight: ≤70 kg
- > Knuckle Ø: 15 mm
- > Drill bit Ø: 7.2 mm
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use
- > For use in combination with receiver

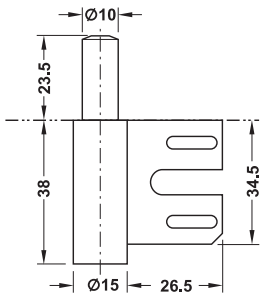
Installation



| Material        | Finish        | Packing | Cat. No.   |
|-----------------|---------------|---------|------------|
| Stainless steel | Satin         | 1 or 50 | 922.32.403 |
| Steel           | Nickel plated | 1 or 50 | 922.32.471 |

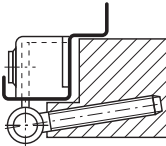


Frame part



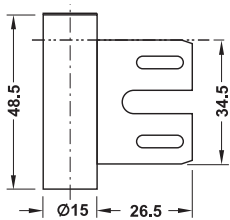
- > Area of application: For steel frames with weld-on pockets, for rebated and flush interior doors
- > Door weight: ≤40 kg
- > Knuckle Ø: 15 mm
- > Mounting: For DIN left and DIN right hand use

Installation



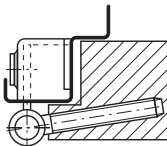
| Material        | Finish        | Packing | Cat. No.   |
|-----------------|---------------|---------|------------|
| Stainless steel | Satin         | 1 or 50 | 922.32.603 |
| Steel           | Nickel plated | 1 or 50 | 922.32.671 |

Frame part



- > Area of application: For steel frames with weld-on pockets, for rebated and flush interior doors
- > Door weight: ≤70 kg
- > Knuckle Ø: 15 mm
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use

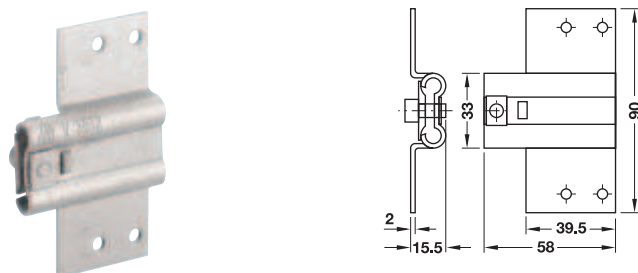
Installation



| Material        | Finish        | Packing | Cat. No.   |
|-----------------|---------------|---------|------------|
| Stainless steel | Satin         | 1 or 50 | 922.32.703 |
| Steel           | Nickel plated | 1 or 50 | 922.32.771 |

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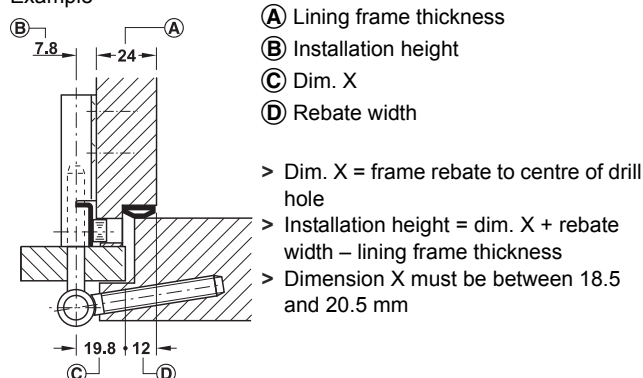
## VARIANT V 3610 Series Screw-on pocket



- > Area of application: For wooden lining frames
- > Material: Steel
- > Finish: Zinc plated
- > Mounting: For DIN left and DIN right hand use

### Installation

#### Example



### Note

Re-drill pin holes with 7.2 mm when using VARIANT plastic drilling jig and VARIANT rebate hole drilling jig.

| Model  | Installation height mm | Cat. No.   |
|--------|------------------------|------------|
| V 3611 | 5.8                    | 922.08.090 |
| V 3612 | 7.8                    | 922.08.190 |
| V 3613 | 8.8                    | 922.08.290 |
| V 3614 | 9.8                    | 922.08.390 |

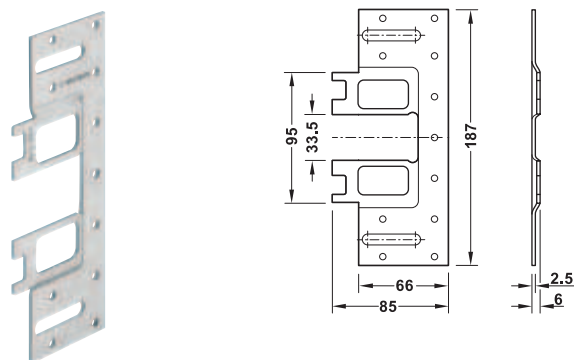
Packing: 1 or 20 pieces

### Order reference

Following items are available on request:

Mounting aids VARIANT series drilling jig metal pocket, VARIANT rebate hole drilling jig.

## Reinforcing plate, V 3610

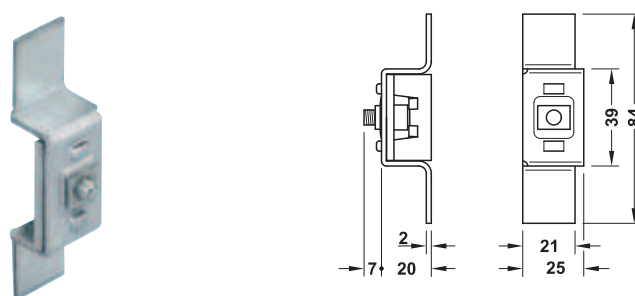


- > Area of application: For wooden lining frames
- > Material: Steel
- > Finish: Zinc plated
- > Mounting: For DIN left and DIN right hand use

|                   | Cat. No.   |
|-------------------|------------|
| Reinforcing plate | 922.08.910 |

Packing: 1 or 20 pieces

## 686 Receiver weld-on pocket

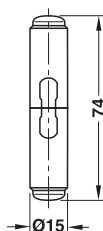


- > Area of application: For steel frames, for flush and rebated frames
- > Finish: Zinc plated
- > Mounting: For DIN left and DIN right hand use
- > Version: Hinge continuously adjustable, hinge can be replaced

| Material | Cat. No.   |
|----------|------------|
| Steel    | 922.39.040 |

Packing: 1 or 40 pieces





> Area of application: For 2-piece FI 1 drill-in hinges

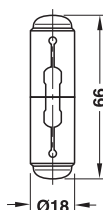
| Material | Finish                   | Cat. No.   |
|----------|--------------------------|------------|
| Plastic  | Matt nickel coloured     | 922.24.906 |
|          | Polished chrome coloured | 922.24.902 |
|          | Polished brass coloured  | 922.24.908 |

Packing: 20 sets

FI 1 ▶ AH 4.9



4

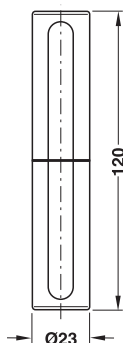


> Area of application: For 2-piece FI 2 drill-in hinges

| Material | Finish                   | Cat. No.   |
|----------|--------------------------|------------|
| Plastic  | Matt nickel coloured     | 922.24.916 |
|          | Polished chrome coloured | 922.24.912 |
|          | Polished brass coloured  | 922.24.918 |
|          | Traffic white, RAL 9016  | 922.24.917 |

Packing: 20 sets

FI 2 ▶ AH 4.9



> Area of application: For 2-piece FI 5 drill-in hinges

| Material | Finish                   | Cat. No.   |
|----------|--------------------------|------------|
| Plastic  | Matt nickel coloured     | 922.24.936 |
|          | Polished chrome coloured | 922.24.932 |
|          | Polished brass coloured  | 922.24.938 |
|          | Traffic white, RAL 9016  | 922.24.937 |

Packing: 20 sets

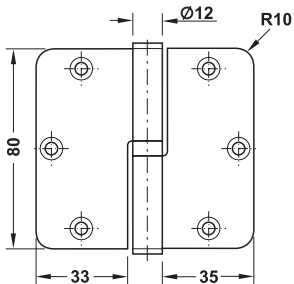
Startec FI 5 drill-in hinge,  
for rebated front doors up to 120 kg ▶ AH 4.10



Butt hinge, size 80 mm  
For flush doors

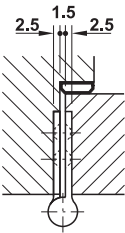


DIN left



- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors
- > Door weight: ≤48 kg with 3 door hinges
- > Knuckle Ø: 12 mm
- > Flange thickness: 2.5 mm
- > Bearing: With fixed pin and ball bearing with intermediate ring

Installation

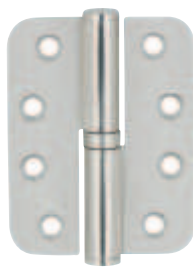


| Material        | Finish | DIN left   | DIN right  |
|-----------------|--------|------------|------------|
| Stainless steel | Satin  | 926.20.303 | 926.20.203 |

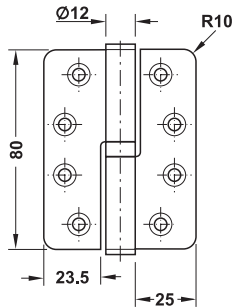
Order reference

Fixing screws for wooden frames and doors supplied.

Butt hinge, size 80 mm  
For flush doors

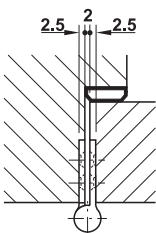


DIN left



- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors
- > Door weight: ≤40 kg with 3 door hinges
- > Knuckle Ø: 12 mm
- > Flange thickness: 2.5 mm
- > Bearing: With fixed pin and ball bearing with intermediate ring

Installation



| Material        | Finish | DIN left   | DIN right  |
|-----------------|--------|------------|------------|
| Stainless steel | Satin  | 926.20.503 | 926.20.403 |

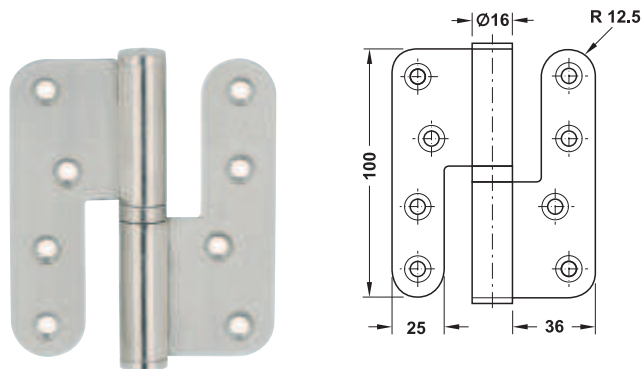
Order reference

Fixing screws for wooden frames and doors supplied.



### Butt hinge, size 100 mm

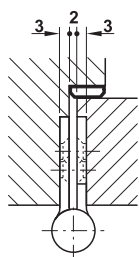
For flush doors



DIN left

- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors
- > Door weight: ≤68 kg with 3 door hinges
- > Knuckle Ø: 16 mm
- > Flange thickness: 3 mm
- > Bearing: With fixed pin and ball bearing with intermediate ring

#### Installation



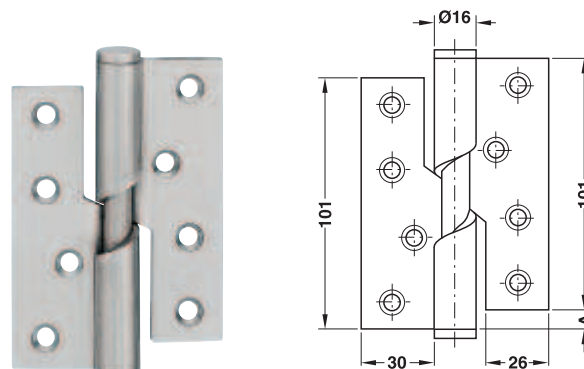
| Material        | Finish   | DIN left   | DIN right  |
|-----------------|----------|------------|------------|
| Stainless steel | Satin    | 926.20.103 | 926.20.003 |
| Brass           | Polished | 926.20.180 | 926.20.080 |

#### Order reference

Fixing screws for wooden frames and doors supplied.

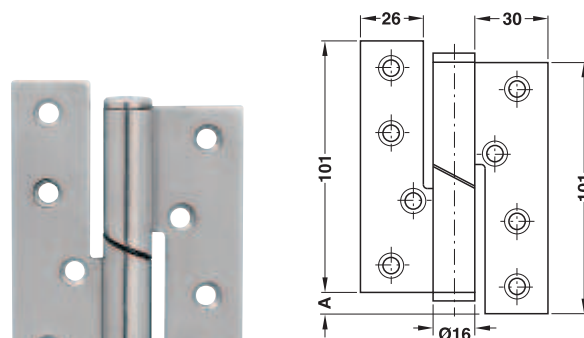
### Butt hinge, size 101 mm

Rising/falling for flush doors up to 40 kg



Rising DIN right

A = 9 mm with 180° opening angle

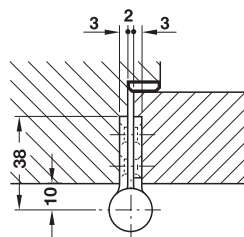


Falling DIN right

A = 9 mm with 180° opening angle

- > Area of application: For wooden frames, for flush interior doors
- > Door weight: ≤40 kg
- > Knuckle Ø: 16 mm
- > Pin Ø: 10 mm
- > Flange thickness: 3 mm
- > Bearing: With fixed pin

#### Installation



| Material        | Finish | Version | DIN left   | DIN right  |
|-----------------|--------|---------|------------|------------|
| Stainless steel | Satin  | Rising  | 926.26.003 | 926.26.103 |
|                 |        | Falling | 926.26.203 | 926.26.303 |

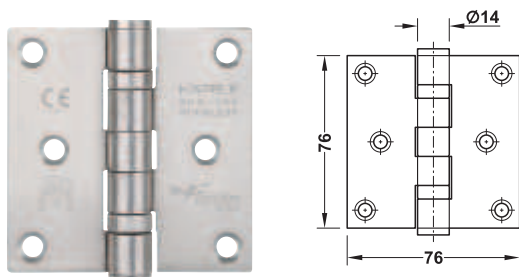
Packing: 2 pieces

#### Order reference

Fixing screws for wooden frames and doors supplied.

### DHB 1212 Butt hinge, size 76 mm

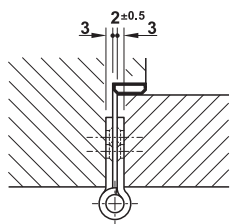
For flush doors



- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors
- > Door weight: 80 kg
- > Knuckle Ø: 14 mm
- > Flange thickness: 3 mm
- > Flange shape: Square
- > Bearing: With fixed pin, knuckle with two ball bearings
- > Mounting: For DIN left and DIN right hand use
- > Standard: Certified in compliance with DIN 1935:2002
- > Class: 

|   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|----|
| 4 | 7 | 4 | 1 | 1 | 4 | 0 | 11 |
|---|---|---|---|---|---|---|----|

#### Installation



| Material        | Finish/colour                       | Cat. No.   |
|-----------------|-------------------------------------|------------|
| Stainless steel | Satin                               | 926.98.000 |
|                 | Polished                            | 926.98.001 |
|                 | Burnished                           | 926.98.009 |
|                 | Polished brass coloured, PVD coated | 926.98.008 |
|                 | Matt black, PVD coated              | 926.98.003 |

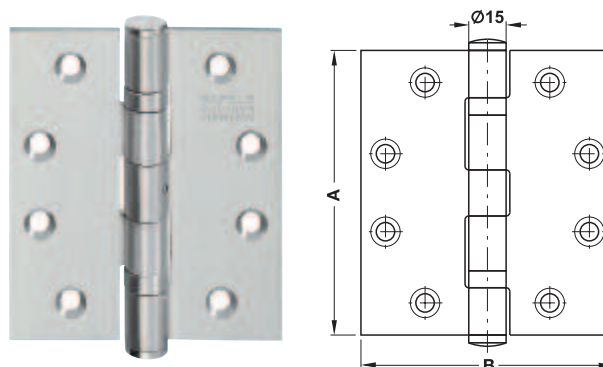
Packing: 1 or 10 pieces

#### Order reference

Fixing screws for wooden frames and doors supplied.  
Please order fixing screws for metal frames and doors 020.00.136 separately.

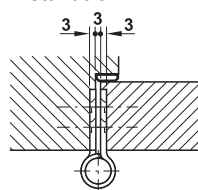
### Butt hinge, size 102 mm

For flush doors



- > Area of application: For wooden or metal frames, for flush wooden or metal doors
- > Material: Stainless steel
- > Knuckle Ø: 15 mm
- > Flange thickness: 3 mm
- > Flange shape: Square
- > Bearing: With separate pin, knuckle with two ball bearings
- > Mounting: For DIN left and DIN right hand use

#### Installation



| Finish | Dim. A    | Dim. B     | Door weight kg            | Cat. No.   |
|--------|-----------|------------|---------------------------|------------|
| Satin  | 4"/102 mm | 3"/76 mm   | With 3 door hinges ≤58 kg | 926.29.603 |
|        |           | 3.5"/89 mm | With 3 door hinges ≤61 kg | 926.29.703 |

Packing: 1 or 2 pieces

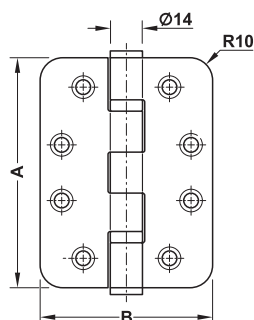
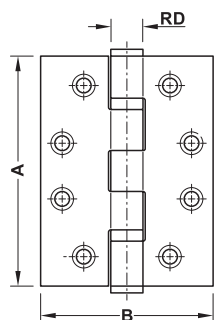
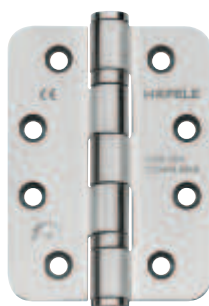
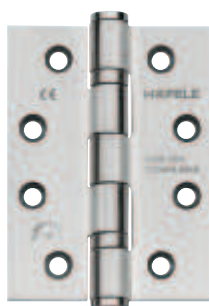
#### Order reference

Fixing screws for wooden frames and doors supplied.



## Butt hinge

For flush doors

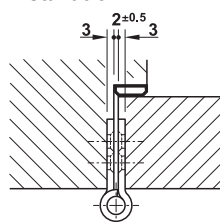


RD = knuckle diameter

- > Area of application: For wooden frames, for flush interior doors
- > Material: Stainless steel
- > Door weight: 120 kg
- > Bearing: With fixed pin, knuckle with two ball bearings
- > Mounting: For DIN left and DIN right hand use
- > Standard: Certified in compliance with DIN 1935:2002
- > Class: 

|   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|----|
| 4 | 7 | 6 | 1 | 1 | 4 | 0 | 13 |
|---|---|---|---|---|---|---|----|

### Installation



| Knuckle Ø mm         | Flange thickness mm | Dim. A      | Dim. B    | Model     | Material                     | Satin      | Polished                     | Burnished  | Polished brass coloured, PVD coated | Matt black, PVD coated |
|----------------------|---------------------|-------------|-----------|-----------|------------------------------|------------|------------------------------|------------|-------------------------------------|------------------------|
| Flange shape square  |                     |             |           |           |                              |            |                              |            |                                     |                        |
| 12                   | 2.5                 | 4"/102 mm   | 3"/76 mm  | DHB 2122  | Stainless steel, quality 201 | 926.98.010 | 926.98.011                   | 926.98.019 | 926.98.018                          | 926.98.013             |
|                      |                     |             |           | DHB 2222  | Stainless steel, quality 304 | 926.98.020 | 926.98.021                   | 926.98.029 | 926.98.028                          | 926.98.023             |
| 14                   | 3                   | 4"/102 mm   | 3"/76 mm  | DHB 3122  | Stainless steel, quality 201 | 926.98.030 | 926.98.031                   | 926.98.039 | 926.98.038                          | 926.98.033             |
|                      |                     |             |           | DHB 3222  | Stainless steel, quality 304 | 926.98.040 | 926.98.041                   | 926.98.049 | 926.98.048                          | 926.98.043             |
|                      |                     |             |           | DHB 3322  | Stainless steel, quality 316 | 926.98.060 | 926.98.061                   | 926.98.069 | 926.98.068                          | 926.98.063             |
|                      |                     | 3.5"/89 mm  | 4"/102 mm | DHB 5222  | Stainless steel, quality 304 | 926.98.100 | 926.98.101                   | 926.98.109 | 926.98.108                          | 926.98.103             |
|                      |                     |             |           | DHB 4122  | Stainless steel, quality 201 | 926.98.070 | 926.98.071                   | 926.98.079 | 926.98.078                          | 926.98.073             |
|                      |                     |             |           | DHB 4222  | Stainless steel, quality 304 | 926.98.090 | 926.98.091                   | 926.98.099 | 926.98.098                          | 926.98.093             |
|                      |                     | 4.5"/114 mm | 4"/102 mm | DHB 6222  | Stainless steel, quality 304 | 926.98.110 | 926.98.111                   | 926.98.119 | 926.98.118                          | 926.98.113             |
|                      |                     |             |           | 5"/127 mm | 3.5"/89 mm                   | DHB 8222   | Stainless steel, quality 304 | 926.98.130 | 926.98.131                          | 926.98.139             |
|                      |                     |             | 4"/102 mm | DHB 9222  | Stainless steel, quality 304 | 926.98.140 | 926.98.141                   | 926.98.149 | 926.98.148                          | 926.98.143             |
|                      |                     |             |           |           |                              |            |                              |            |                                     |                        |
| 15                   | 3.5                 | 4.5"/114 mm | 4"/102 mm | DHB 7222  | Stainless steel, quality 304 | 926.98.120 | 926.98.121                   | 926.98.129 | 926.98.128                          | 926.98.123             |
| Flange shape rounded |                     |             |           |           |                              |            |                              |            |                                     |                        |
| 14                   | 3                   | 4"/102 mm   | 3"/76 mm  | DHB 3221  | Stainless steel, quality 304 | 926.98.050 | 926.98.051                   | 926.98.059 | 926.98.058                          | 926.98.053             |
|                      |                     |             | 4"/102 mm | DHB 4121  | Stainless steel, quality 201 | 926.98.080 | 926.98.081                   | 926.98.089 | 926.98.088                          | 926.98.083             |

Packing: 1 or 10 pieces

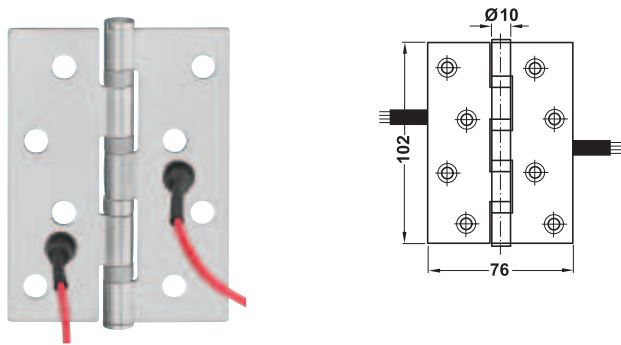
### Order reference

Fixing screws for wooden frames and doors supplied.

Please order fixing screws for metal frames and doors 020.00.136 separately.

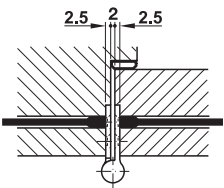
Butt hinge

Narrow, current-carrying



- > Area of application: For transmitting power (24 V) from frame to door, only use as middle hinge together with a pair of compatible hinges on the outer sides
- > Material: Stainless steel
- > Knuckle Ø: 10 mm
- > Flange thickness: 2.5 mm
- > Flange shape: Square
- > Door thickness: ≥35 mm
- > Version: With 4-core cable

Installation



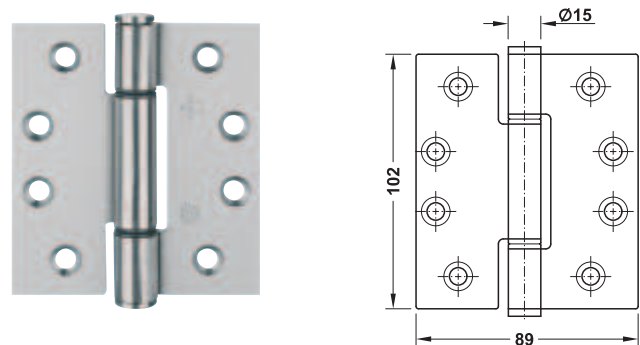
| Material        | Finish | Mounting  | Cat. No.   |
|-----------------|--------|-----------|------------|
| Stainless steel | Satin  | DIN left  | 921.09.111 |
|                 |        | DIN right | 921.09.110 |

Order reference

Fixing screws for wooden frames and doors supplied.

Butt hinge, size 102 mm

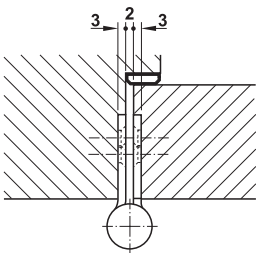
Extra heavy duty hinge for flush doors up to 160 kg



- > Area of application: For wooden or metal frames, for flush wooden or metal doors (stainless steel quality AISI 316)
- > Door weight: ≤160 kg
- > Knuckle Ø: 15 mm
- > Flange thickness: 3 mm
- > Bearing: Maintenance-free friction bearing
- > Mounting: For DIN left and DIN right hand use
- > Standard: Certified in compliance with EN 1935:2002
- > Class: 

|   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|----|
| 4 | 7 | 7 | 1 | 1 | 4 | 1 | 14 |
|---|---|---|---|---|---|---|----|

Installation



| Material        | Finish | Cat. No.   |
|-----------------|--------|------------|
| Stainless steel | Satin  | 926.94.703 |

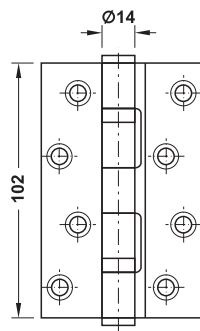
Order reference

Available with rounded corners (radius 10 mm) on request.



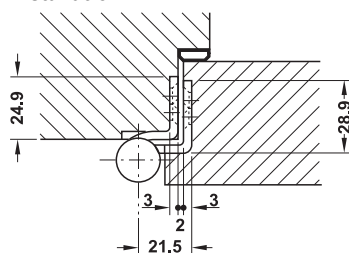
### Butt hinge, size 102 mm

For rebated doors



- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors
- > Door weight: ≤58 kg with 3 door hinges
- > Knuckle Ø: 14 mm
- > Flange thickness: 3 mm
- > Bearing: With fixed pin, knuckle with two ball bearings
- > Mounting: For DIN left and DIN right hand use

#### Installation



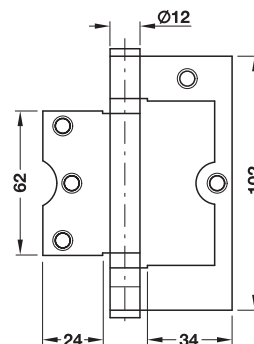
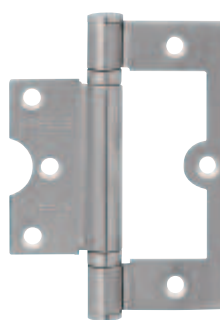
| Material        | Finish   | Cat. No.   |
|-----------------|----------|------------|
| Stainless steel | Satin    | 926.25.803 |
| Brass           | Polished | 926.25.880 |

#### Order reference

Fixing screws for wooden frames and doors supplied.

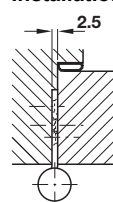
### Butt hinge, size 102 mm

For flush mounting



- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors, for flush mounting
- > Door weight: ≤60 kg
- > Knuckle Ø: 12 mm
- > Flange thickness: 2.5 mm
- > Bearing: Knuckle with 2 ball bearings
- > Routing height: 102 mm
- > Routing depth: 2.65 mm
- > Mounting: For DIN left and DIN right hand use

#### Installation

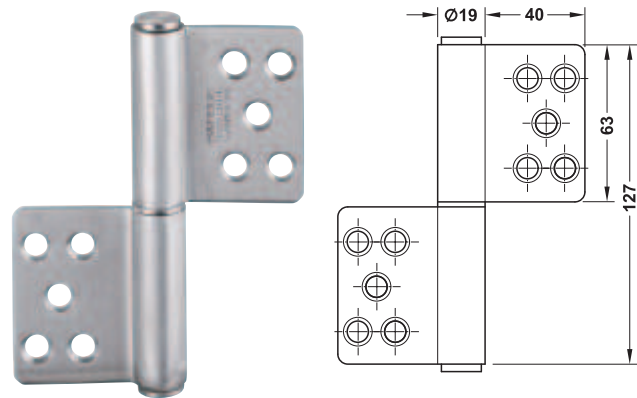


| Material            | Finish | Cat. No.   |
|---------------------|--------|------------|
| Stainless steel 304 | Satin  | 926.22.103 |
| Stainless steel 201 | Satin  | 926.22.127 |

#### Order reference

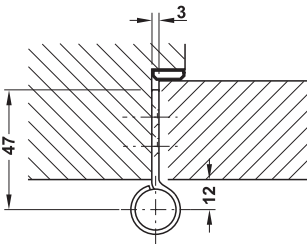
Fixing screws for wooden frames and doors supplied.

Butt hinge – Startec,  
size 127 mm  
For flush doors



- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors
- > Door weight: ≤80 kg with 3 door hinges
- > Knuckle Ø: 14 mm
- > Flange thickness: 3 mm
- > Bearing: With fixed pin and with intermediate ring
- > Mounting: For DIN left and DIN right hand use
- > Routing height: 127 mm

Installation

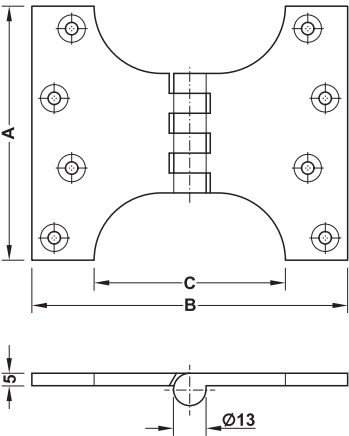
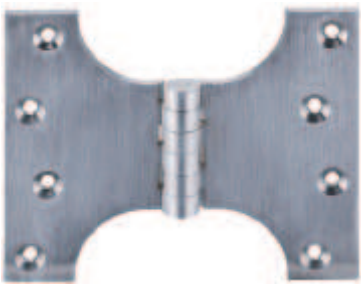


| Material        | Finish | Cat. No.   |
|-----------------|--------|------------|
| Stainless steel | Satin  | 926.13.903 |

Order reference

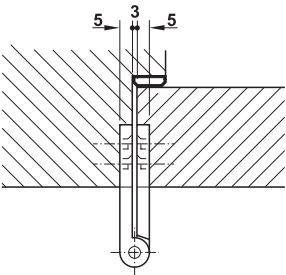
Fixing screws for wooden frames and doors supplied.

Butt hinge



- > Area of application: For wooden or metal frames, for wooden or metal interior doors, for lightweight loads, not suitable for very wide doors
- > Material: Brass
- > Knuckle Ø: 13 mm
- > Flange thickness: 5 mm
- > Bearing: With fixed pin
- > Mounting: For DIN left and DIN right hand use

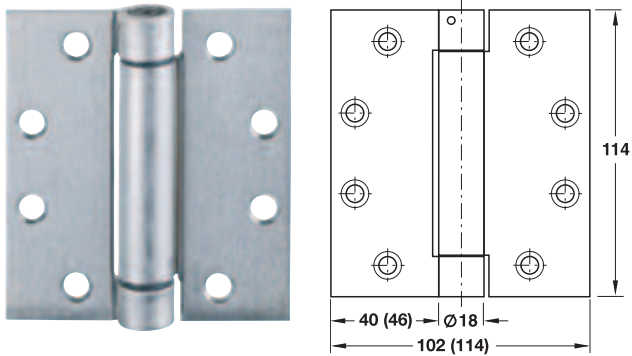
Installation



| Dim. A mm | Dim. B mm | Dim. C mm | Finish                      | Cat. No.   |
|-----------|-----------|-----------|-----------------------------|------------|
| 102       | 127       | 76        | Polished                    | 921.08.590 |
|           |           |           | Chrome plated, satin finish | 921.08.594 |
| 102       | 152       | 102       | Polished                    | 921.08.610 |
|           |           |           | Chrome plated, satin finish | 921.08.614 |

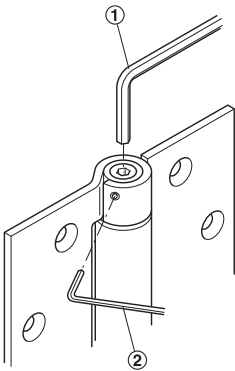
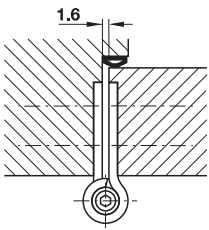


Spring hinge



- > Area of application: For wooden or steel frames, for flush wooden or steel interior doors
- > Version: Flange width 40 or 46 mm
- > Door weight: ≤60 kg with 3 door hinges
- > Knuckle Ø: 18 mm
- > Flange thickness: 3.4 mm
- > Adjustment facility: Spring force can be adjusted and fixed
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use
- > Standard: In compliance with ANSI A117.1, UL listed

Installation



- ① Adjustment of spring force
- ② Fixing set spring force

Loosen:

- > Loosen safety lock screw on the side of the hinge knuckle
- > Press down and simultaneously turn the hex socket head screw in the hinge knuckle anti-clockwise. Repeat this action until the hinge is completely loosened. Then install the hinges.

Tighten:

- > Turn the hex socket head screw in the hinge knuckle clockwise and adjust spring force of all hinges equally as required
- > Re-tighten safety lock screw

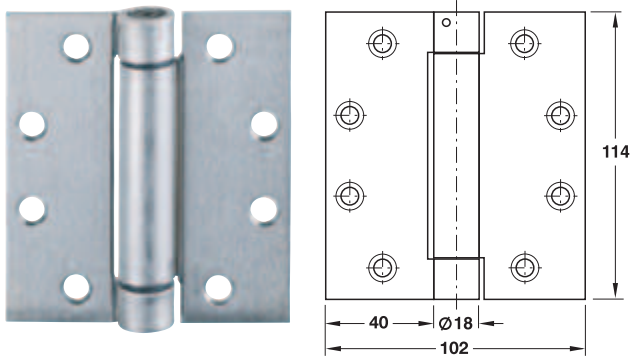
| Flange width mm | Material | Finish                | Cat. No.   |
|-----------------|----------|-----------------------|------------|
| 40              | Steel    | Matt chrome plated    | 926.10.041 |
|                 | Steel    | Polished brass plated | 926.10.080 |
| 46              | Steel    | Matt chrome plated    | 926.10.141 |

Order reference

Fixing screws for wooden frames and doors supplied.

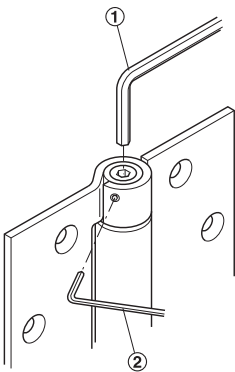
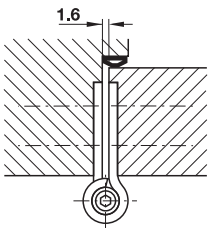


Spring hinge



- > Area of application: For wooden or steel frames, for flush wooden or steel interior doors
- > Door weight: ≤60 kg with 3 door hinges
- > Knuckle Ø: 18 mm
- > Flange thickness: 3.4 mm
- > Adjustment facility: Spring force can be adjusted and fixed
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use

Installation



- ① Adjustment of spring force
- ② Fixing set spring force

Loosen:

- > Loosen safety lock screw on the side of the hinge knuckle
  - > Press down and simultaneously turn the hex socket head screw in the hinge knuckle anti-clockwise.
- Repeat this action until the hinge is completely loosened. Then install the hinges.

Tighten:

- > Turn the hex socket head screw in the hinge knuckle clockwise and adjust spring force of all hinges equally as required
- > Re-tighten safety lock screw



4

| Flange width<br>mm | Material        | Finish | Cat. No.   |
|--------------------|-----------------|--------|------------|
| 40                 | Stainless steel | Satin  | 926.35.003 |

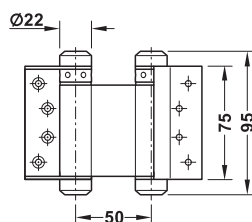
Packing: 2 pieces

Order reference

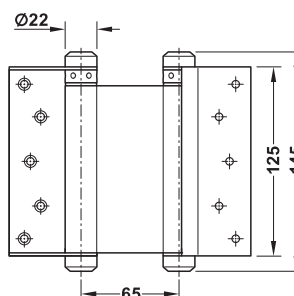
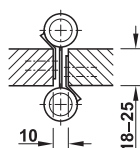
Fixing screws for wooden frames and doors supplied.

### Double action spring hinge

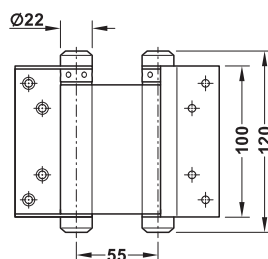
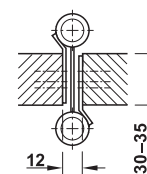
For flush doors



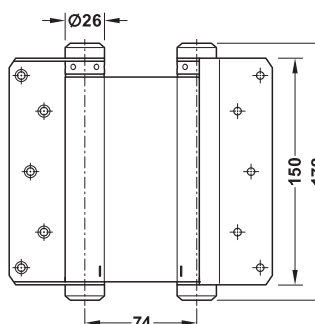
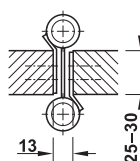
Size 75 mm



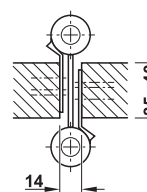
Size 125 mm



Size 100 mm



Size 150 mm



- > Area of application: For wooden frames, for flush wooden interior doors
- > Opening angle: 180° swing action on both sides
- > Mounting: For DIN left and DIN right hand use

#### → Size 75 mm, up to 15 kg

- > Door weight: ≤15 kg
- > Door thickness: 18–25 mm
- > Door height: ≤1,800 mm
- > Door width: ≤600 mm
- > Knuckle Ø: 22 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.01.003 |
| Steel           | Nickel plated | 927.01.070 |
|                 | Brass plated  | 927.01.081 |

Packing: 1 pair

#### → Size 100 mm, up to 22 kg

- > Door weight: ≤22 kg
- > Door thickness: 25–30 mm
- > Door height: ≤1,900 mm
- > Door width: ≤700 mm
- > Knuckle Ø: 22 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.01.103 |
| Steel           | Nickel plated | 927.01.170 |
|                 | Brass plated  | 927.01.181 |

Packing: 1 pair

#### → Size 125 mm, up to 27 kg

- > Door weight: ≤27 kg
- > Door thickness: 30–35 mm
- > Door height: ≤2,000 mm
- > Door width: ≤700 mm
- > Knuckle Ø: 22 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.01.203 |
| Steel           | Nickel plated | 927.01.270 |
|                 | Brass plated  | 927.01.281 |

Packing: 1 pair

#### → Size 150 mm, up to 40 kg

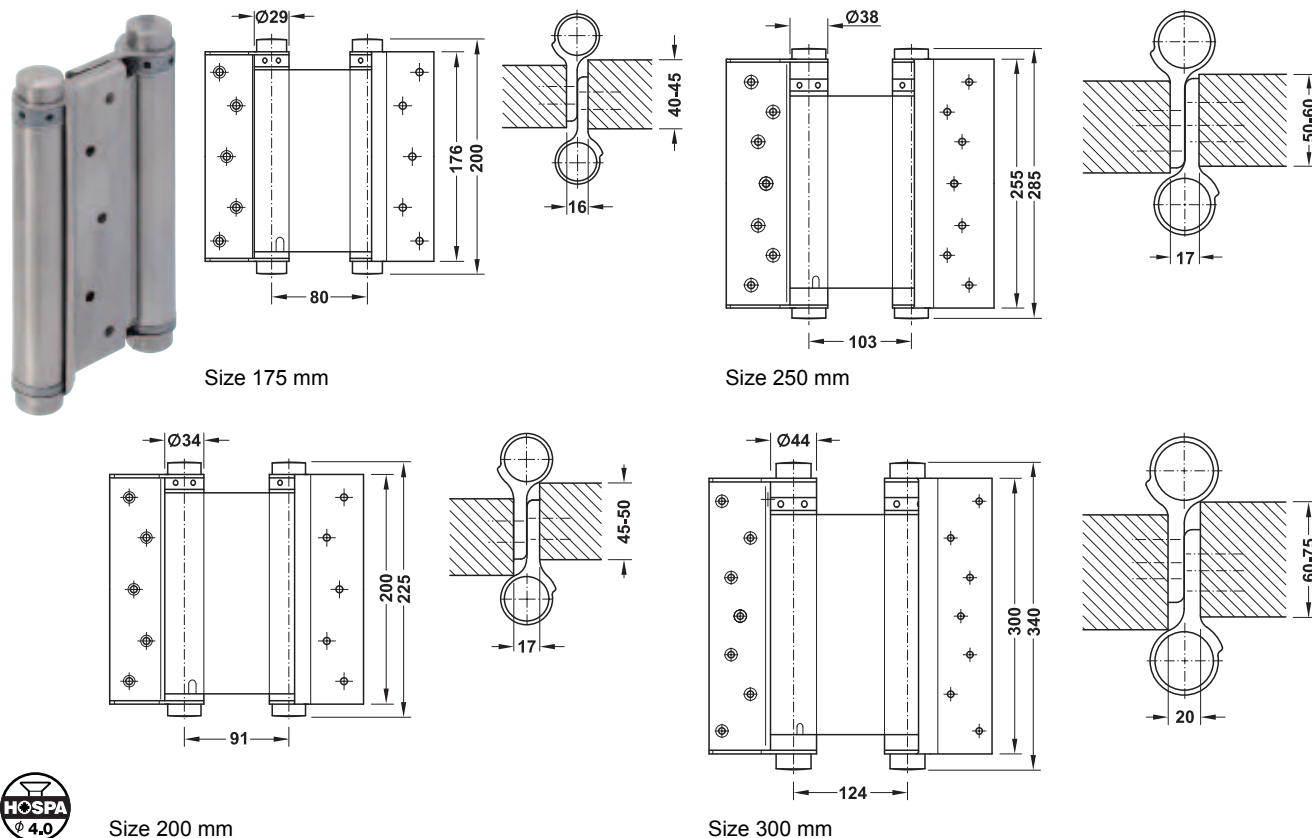
- > Door weight: ≤40 kg
- > Door thickness: 35–40 mm
- > Door height: ≤2,500 mm
- > Door width: ≤750 mm
- > Knuckle Ø: 26 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.01.303 |
| Steel           | Nickel plated | 927.01.370 |
|                 | Brass plated  | 927.01.381 |

Packing: 1 pair

## Double action spring hinge

For flush doors



- > Area of application: For wooden frames, for flush wooden interior doors
- > Opening angle: 180° swing action on both sides
- > Mounting: For DIN left and DIN right hand use

### → Size 175 mm, up to 55 kg

- > Door weight: ≤55 kg
- > Door thickness: 40–45 mm
- > Door height: 2,500 mm
- > Door width: 860 mm
- > Knuckle Ø: 29 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.02.503 |
| Steel           | Nickel plated | 927.02.571 |
|                 | Brass plated  | 927.02.580 |
|                 | Galvanized    | 927.02.590 |

Packing: 1 pair

### → Size 200 mm, up to 70 kg

- > Door weight: ≤70 kg
- > Door thickness: 45–50 mm
- > Door height: 2,600 mm
- > Door width: 985 mm
- > Knuckle Ø: 34 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.02.603 |
| Steel           | Nickel plated | 927.02.671 |
|                 | Brass plated  | 927.02.680 |
|                 | Galvanized    | 927.02.690 |

Packing: 1 pair

### → Size 250 mm, up to 100 kg

- > Door weight: ≤100 kg
- > Door thickness: 50–60 mm
- > Door height: 2,800 mm
- > Door width: 985 mm
- > Knuckle Ø: 38 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.02.703 |
| Steel           | Nickel plated | 927.02.771 |
|                 | Brass plated  | 927.02.780 |
|                 | Galvanized    | 927.02.790 |

Packing: 1 pair

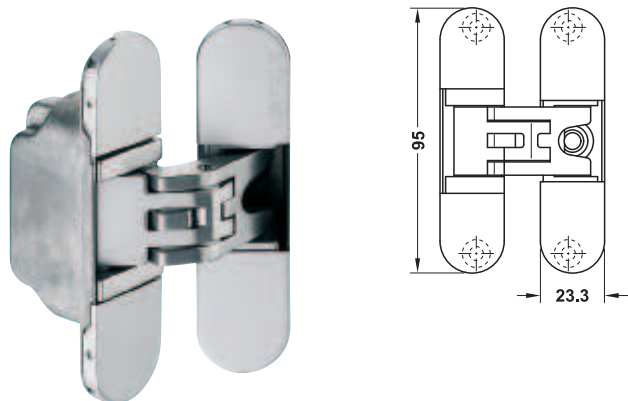
### → Size 300 mm, up to 145 kg

- > Door weight: ≤145 kg
- > Door thickness: 60–75 mm
- > Door height: 3,000 mm
- > Door width: 1,235 mm
- > Knuckle Ø: 44 mm

| Material        | Finish        | Cat. No.   |
|-----------------|---------------|------------|
| Stainless steel | Satin         | 927.02.803 |
| Steel           | Nickel plated | 927.02.871 |
|                 | Brass plated  | 927.02.880 |
|                 | Galvanized    | 927.02.890 |

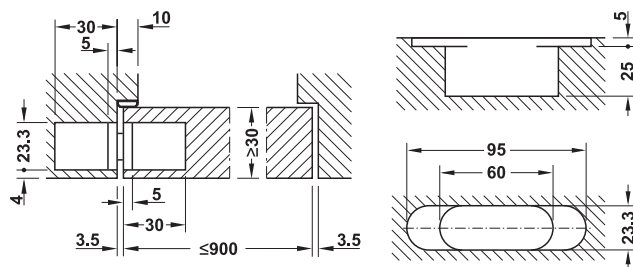
Packing: 1 pair

### H2 Concealed mortise hinge



- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤45 kg with 2 door hinges, ≤60 kg with 3 door hinges
- > Opening angle: ≤180°
- > Door width: ≤900 mm
- > Door height: ≤2,000 mm
- > Door thickness: ≥32 mm
- > Size: 95 mm
- > Adjustment facility: Continuously 3D adjustable: Height: ±2.5 mm, side: +3 / -2 mm and closing pressure: ±1 mm
- > Hex key for adjustment supplied

#### Installation



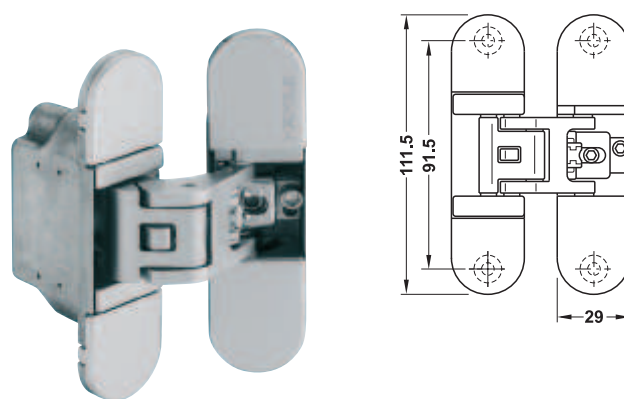
Routing pattern for frame and door

#### Note

Different recess dimensions when using hinge pockets for lining frames.  
4 door hinges must be used for door height of 2,100 mm and above.

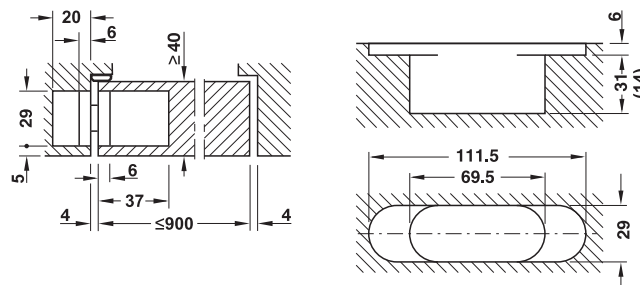
| Material   | Finish                 | Cat. No.   |
|------------|------------------------|------------|
| Zinc alloy | Matt chrome plated     | 927.91.544 |
|            | Matt nickel plated     | 927.91.546 |
|            | Polished gold coloured | 927.91.548 |

### H7 Concealed mortise hinge



- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤50 kg with 2 door hinges, ≤70 kg with 3 door hinges
- > Opening angle: ≤180°
- > Door width: ≤900 mm
- > Door height: ≤2,100 mm
- > Door thickness: ≥40 mm
- > Size: 111.5 mm
- > Adjustment facility: Continuously 3D adjustable: Height: ±3 mm, side: +3/-2 mm and closing pressure: ±1 mm
- > Fixing material supplied
- > Hex key for adjustment supplied

#### Installation



Routing pattern for frame and door

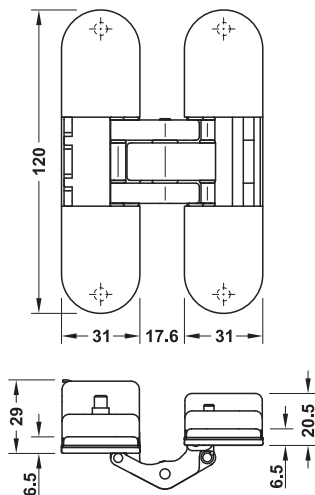
#### Note

Different recess dimensions when using hinge pockets for lining frames.  
4 door hinges must be used for door heights of 2,400 mm and above.

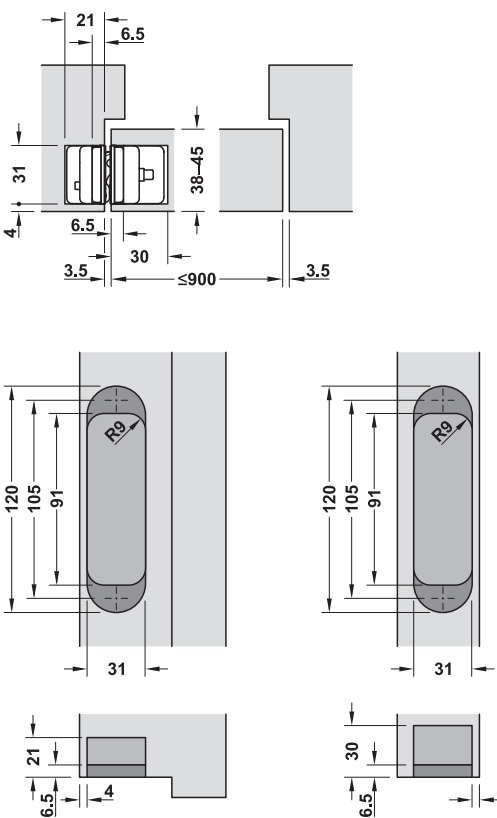
| Material   | Finish                 | Cat. No.   |
|------------|------------------------|------------|
| Zinc alloy | Matt chrome plated     | 927.91.554 |
|            | Matt nickel plated     | 927.91.556 |
|            | Polished gold coloured | 927.91.558 |

H12 Concealed mortise hinge,  
size 120 mm

For flush doors up to 60 kg



Installation



Routing pattern for frame

Routing pattern for door

Note

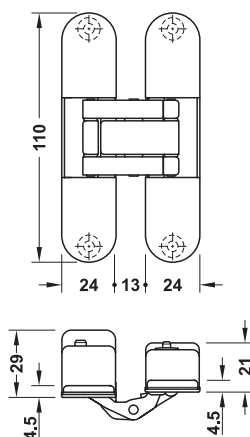
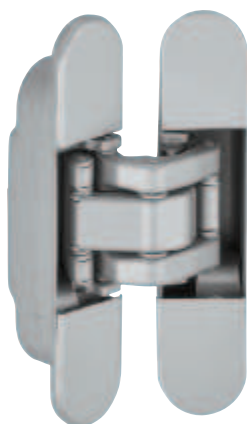
Fixing screws for wooden frame supplied.

- > Area of application: For wooden frames, for flush wooden interior doors
  - > Door weight: ≤60 kg with 2 door hinges
  - > Opening angle: ≤180°
  - > Door width: ≤900 mm
  - > Door height: ≤2,100 mm
  - > Door thickness: With centred door hinge 38–45 mm
  - > Size: 120 mm
  - > Adjustment facility: Continuously 3D adjustable:  
Height: ±3 mm, side: ±1 mm and  
closing pressure: ±1 mm
- Hex key for adjustment supplied

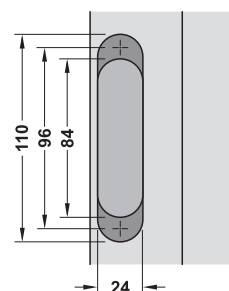
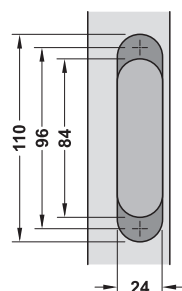
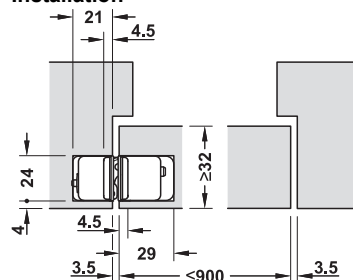
| Material | Finish                  | Cat. No.   |
|----------|-------------------------|------------|
| Steel    | Matt chrome plated      | 927.91.344 |
|          | Matt nickel plated      | 927.91.346 |
|          | Polished brass coloured | 927.91.328 |
|          | Satin black             | 927.91.343 |

### H12 S Concealed mortise hinge, size 110 mm

For flush doors up to 60 kg



#### Installation



Routing pattern for frame

Routing pattern for door

#### Note

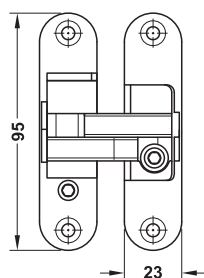
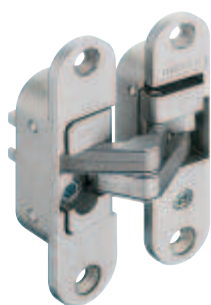
Fixing material supplied.

- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤60 kg with 2 door hinges
- > Opening angle: ≤180°
- > Door width: ≤900 mm
- > Door height: ≤2,100 mm
- > Door thickness: ≥ 32 mm
- > Size: 110 mm
- > Adjustment facility: Continuously 3D adjustable:  
Height: ±2.5 mm, page: ±1 mm and  
closing pressure: ±1.5 mm

| Material | Finish/colour           | Cat. No.   |
|----------|-------------------------|------------|
| Steel    | Matt chrome plated      | 927.91.074 |
|          | Matt nickel plated      | 927.91.076 |
|          | Polished chrome plated  | 927.91.072 |
|          | Polished brass coloured | 927.91.078 |
|          | White                   | 927.91.077 |
|          | Matt black              | 927.91.073 |
|          | Bronze coloured         | 927.91.071 |

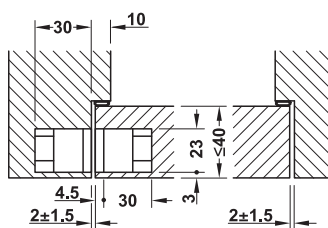
Packing: 1 or 2 pieces

## Concealed mortise hinge

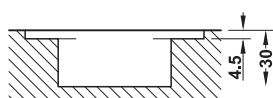
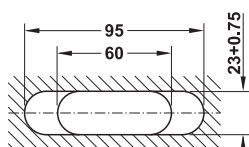


- > Area of application: For wooden frames, for flush wooden interior doors
- > Opening angle:  $\leq 180^\circ$
- > Door width:  $\leq 1,000$  mm
- > Door height:  $\leq 2,000$  mm
- > Door thickness:  $\leq 40$  mm
- > Size: 95.0 mm
- > Adjustment facility: Continuous 3D adjustment: Height  $\pm 1.5$  mm, side and closing pressure  $\pm 1$  mm

### Mounting



### Drilling pattern

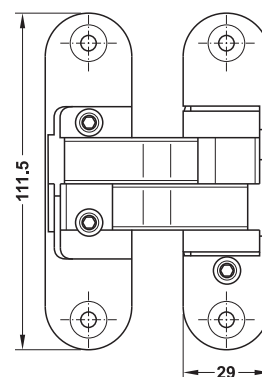


| Number of hinges | Door width mm |       |       |       |       |
|------------------|---------------|-------|-------|-------|-------|
|                  | 600           | 700   | 800   | 900   | 1000  |
| 2                | 50 kg         | 46 kg | 42 kg | 40 kg | 36 kg |
| 3                | 56 kg         | 51 kg | 48 kg | 45 kg | 40 kg |
| 4                | 63 kg         | 57 kg | 53 kg | 50 kg | 45 kg |

| Material   | Finish             | DIN left   | DIN right  |
|------------|--------------------|------------|------------|
| Zinc alloy | Matt nickel plated | 927.32.036 | 927.32.046 |

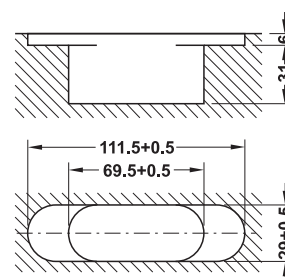
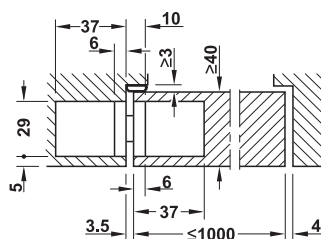
Packing: 1 or 3 pieces

## Concealed mortise hinge



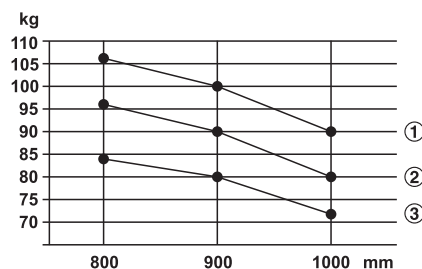
- > Area of application: For wooden frames, for flush wooden interior doors
- > Opening angle:  $\leq 180^\circ$
- > Door width:  $\leq 1,000$  mm
- > Door height:  $\leq 2,000$  mm
- > Door thickness:  $\geq 40$  mm
- > Size: 111.5 mm
- > Adjustment facility: Continuously 3D adjustable: Height  $\pm 1.5$  mm, side and closing pressure  $\pm 1$  mm

### Installation



Routing pattern for frame and door

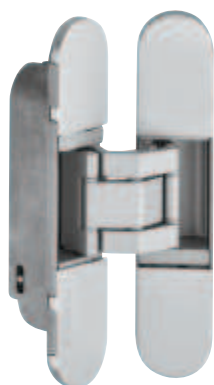
### Weight table



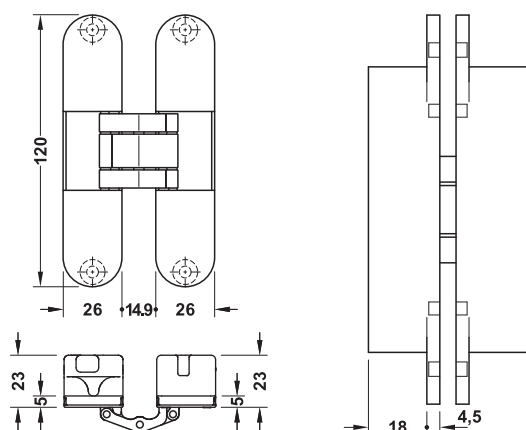
- ① 4 hinges
- ② 3 hinges
- ③ 2 hinges

| Material   | Finish                 | DIN left   | DIN right  |
|------------|------------------------|------------|------------|
| Zinc alloy | Matt nickel plated     | 927.32.006 | 927.32.016 |
|            | Polished nickel plated | 927.32.007 | 927.32.017 |
|            | Polished gold coloured | 927.32.008 | 927.32.018 |

### Concealed mortise hinge

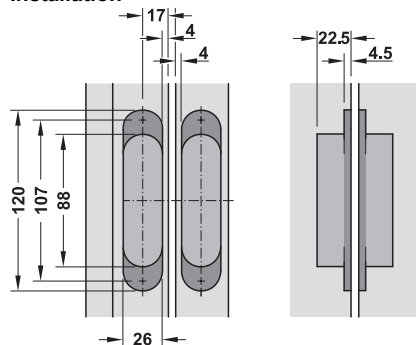


4



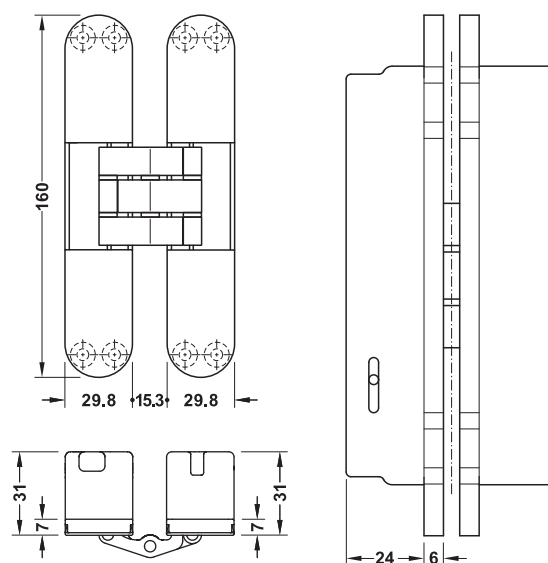
- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤40 kg with 2 door hinges, ≤50 kg with 3 door hinges
- > Size: 120 mm
- > Door thickness: ≥35 mm
- > Opening angle: 180°
- > Adjustment facility: Continuously 3D adjustable: Height and side ±2 mm, closing pressure ±1 mm

#### Installation



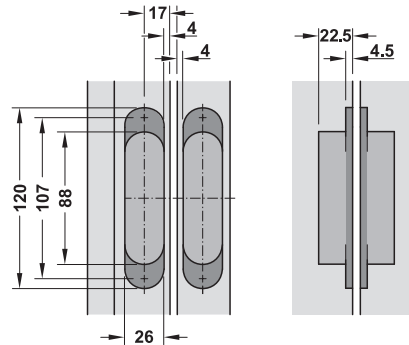
| Material   | Finish             | Cat. No.   |
|------------|--------------------|------------|
| Zinc alloy | Matt chrome plated | 927.91.604 |
|            | Matt nickel plated | 927.91.606 |

### Concealed mortise hinge



- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤80 kg with 2 door hinges, ≤100 kg with 3 door hinges
- > Size: 160 mm
- > Door thickness: ≥40 mm
- > Opening angle: 180°
- > Adjustment facility: Continuously 3D adjustable: Height ±3 mm, side +3/-2 mm and closing pressure ±1 mm

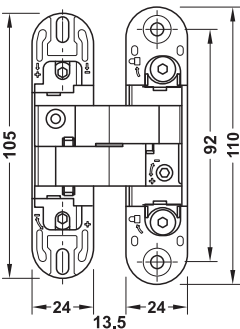
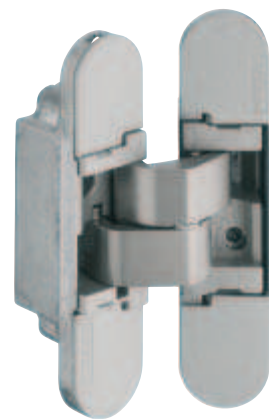
#### Installation



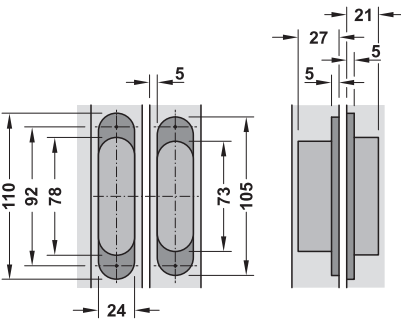
| Material   | Finish/colour           | Cat. No.   |
|------------|-------------------------|------------|
| Zinc alloy | Matt chrome plated      | 927.91.634 |
|            | Matt nickel plated      | 927.91.636 |
|            | Polished brass coloured | 927.91.638 |
|            | Satin black             | 927.91.633 |



CDH 40 Concealed mortise hinge



Installation



| Material   | Finish             | Cat. No.   |
|------------|--------------------|------------|
| Zinc alloy | Matt nickel plated | 927.91.666 |

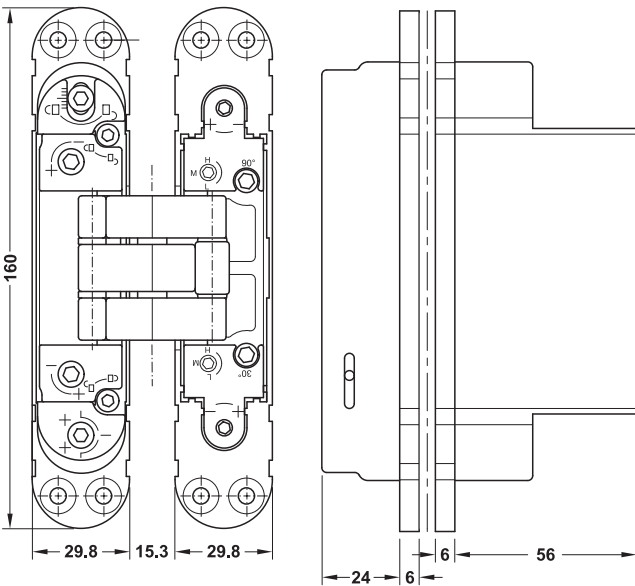
- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤40 kg with 2 door hinges, ≤52 kg with 3 door hinges
- > Door thickness: ≥35 mm
- > Opening angle: 180°
- > Adjustment facility: Continuously 3D adjustable: Height ±2.5 mm, side ±1 mm and closing pressure +3/-1.5 mm

Concealed mortise hinge

Doors close automatically by means of the self closing mechanism

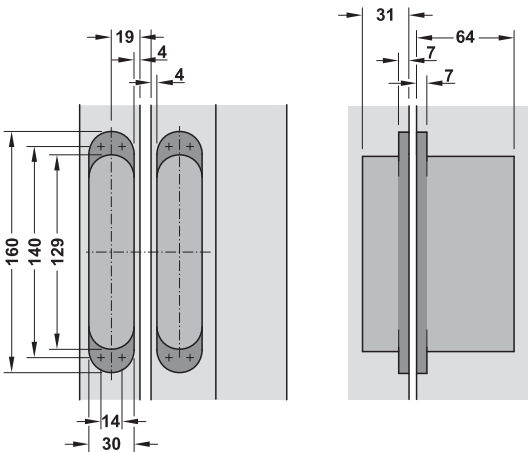


4



- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤60 kg with 3 door hinges
- > Size: 160 mm
- > Door thickness: ≥40 mm
- > Opening angle: 180°
- > Adjustment facility: Continuously 3D adjustable: Height ±3 mm, side +3/-2 mm and closing pressure ±1 mm, closing force with 3 settings

Installation

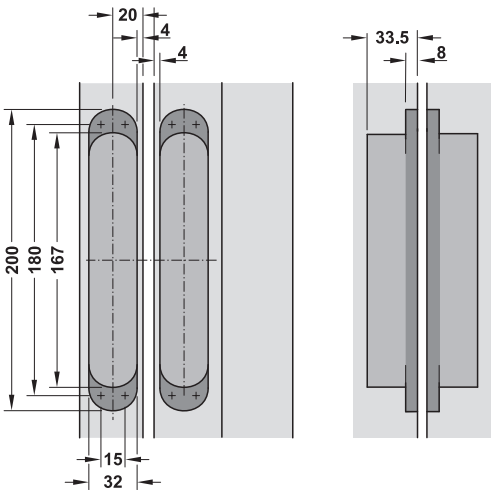


| Material   | Finish             | Cat. No.   |
|------------|--------------------|------------|
| Zinc alloy | Matt chrome plated | 927.91.614 |
|            | Matt nickel plated | 927.91.616 |

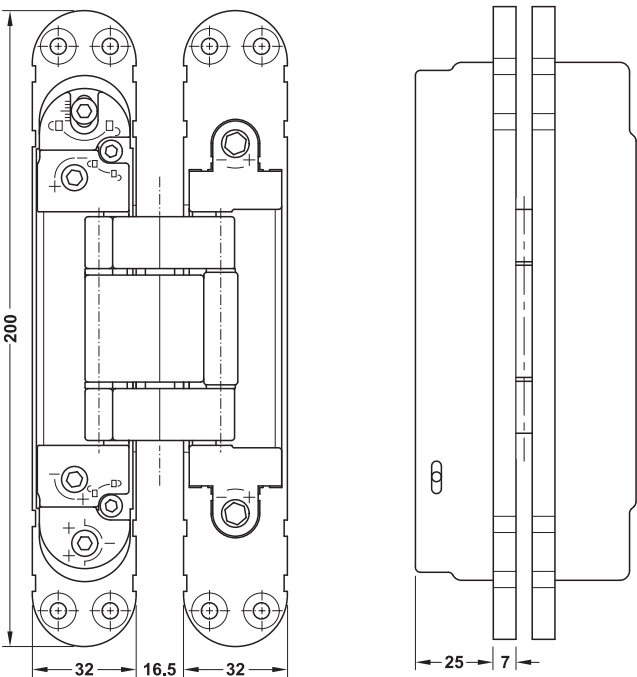
Concealed mortise hinge



Installation



| Material   | Finish             | Cat. No.   |
|------------|--------------------|------------|
| Zinc alloy | Matt chrome plated | 927.91.624 |
|            | Matt nickel plated | 927.91.626 |

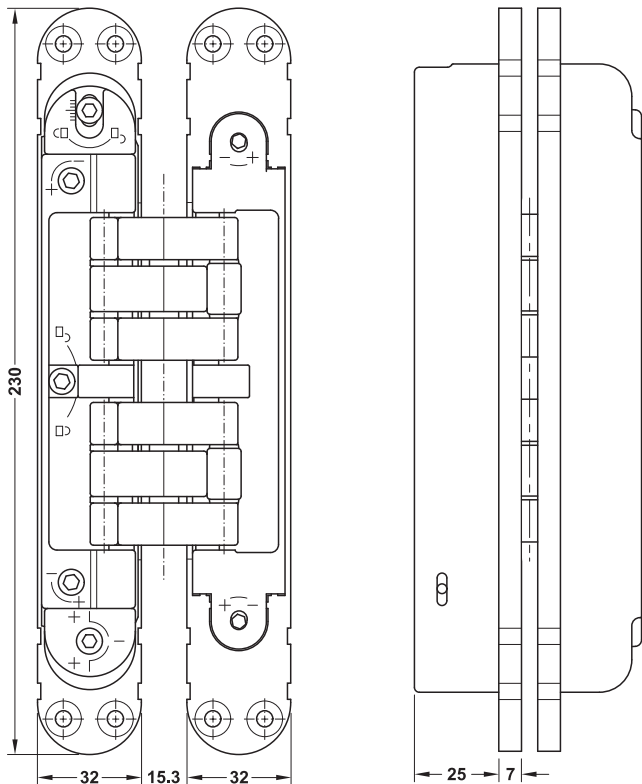


- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤120 kg with 2 door hinges, ≤140 kg with 3 door hinges
- > Size: 200 mm
- > Door thickness: ≥40 mm
- > Opening angle: 180°
- > Adjustment facility: Continuously 3D adjustable: Height ±3 mm, side +3/-2 mm and closing pressure ±1 mm

Concealed mortise hinge

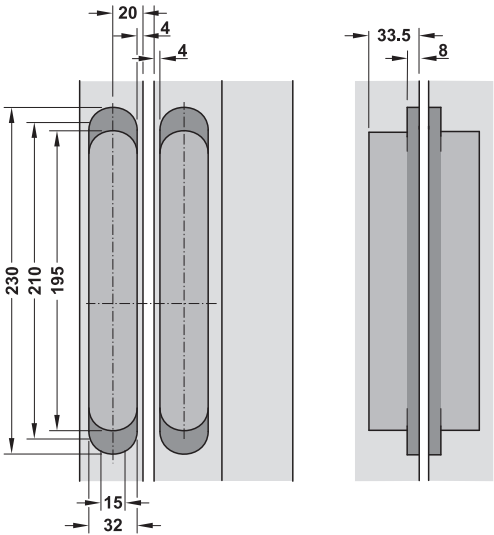


4



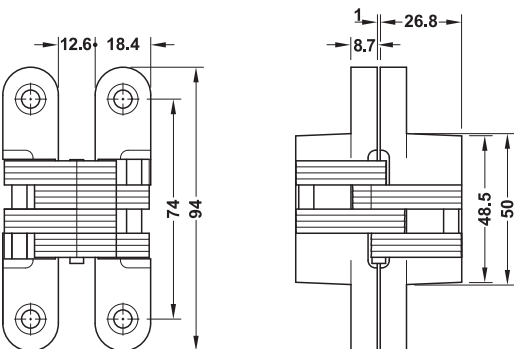
- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤200 kg with 2 door hinges
- > Door thickness: ≥40 mm
- > Opening angle: 180°
- > Adjustment facility: Continuously 3D adjustable:  
Height ±3 mm,  
side +3.5/1.5 mm  
and closing pressure ±1.0/-1.0 mm

Installation



| Material   | Finish             | Cat. No.   |
|------------|--------------------|------------|
| Zinc alloy | Matt chrome plated | 927.91.644 |
|            | Matt nickel plated | 927.91.646 |

Concealed mortice hinge

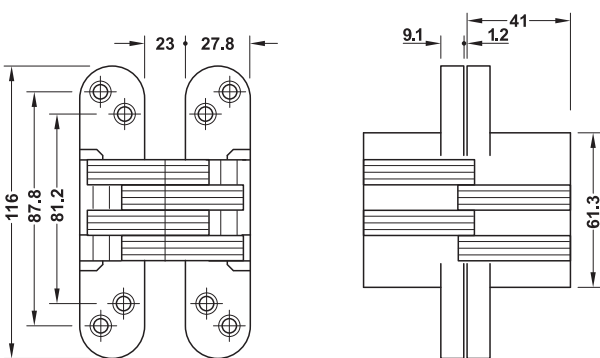
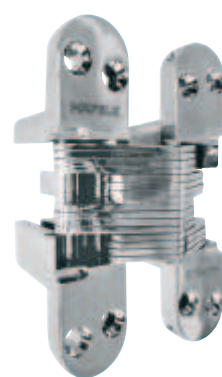


- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤45 kg with 2 door hinges
- > Door thickness: ≥25 mm
- > Opening angle: ≤180°
- > Material: Zinc alloy
- > Mounting: For DIN left and DIN right hand use

| Finish          | Cat. No.   |
|-----------------|------------|
| Matt chrome     | 927.97.000 |
| Polished chrome | 927.97.002 |

Packing: 1 or 40 pieces

Concealed mortice hinge



- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤70 kg with 2 door hinges, ≤85 kg with 3 door hinges
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Material: Zinc alloy
- > Mounting: For DIN left and DIN right hand use

| Finish          | Cat. No.   |
|-----------------|------------|
| Matt chrome     | 927.97.010 |
| Polished chrome | 927.97.012 |

Packing: 1 or 40 pieces

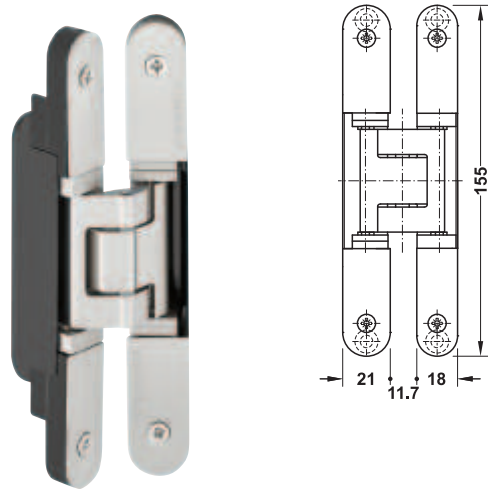


**TECTUS TE 240 3D N**  
**Concealed mortise hinge,**  
**size 155 mm**

For flush doors up to 60 kg



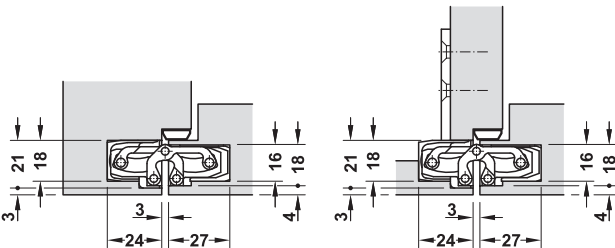
4



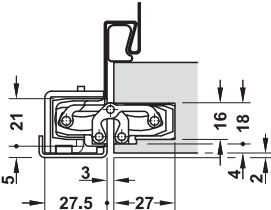
- > Area of application: For wooden, steel or aluminium frames, for flush doors
- > Door weight: ≤60 kg
- > Size: 155 mm
- > Door thickness: ≥25 mm
- > Opening angle: ≤180°
- > Router bit Ø: 16 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable: Side and height ±3 mm, closing pressure: ±1.5 mm
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use

**Note**  
"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

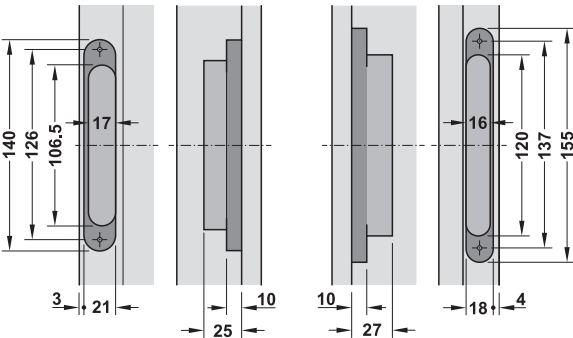
**Installation**



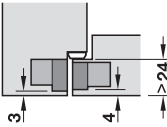
On wooden block frames      With mounting plate on wooden lining frames



With receiver on steel frames



Routing pattern for wooden block frame, frame      Routing pattern for wooden block frame, door



Routing pattern for block frame, frame

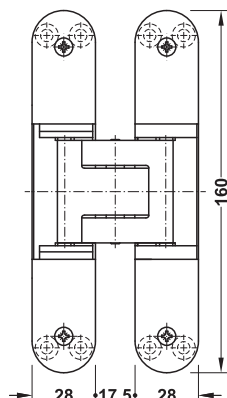
| Material                                      | Finish                 | Cat. No.   |
|---|------------------------|------------|
| Covers: Steel, powder coated, link: Aluminium | Stainless steel design | 924.18.904 |
|   | Silver coloured        | 924.18.921 |
|   | New silver coloured    | 924.18.922 |

|                |           |
|----------------|-----------|
| Mounting plate | ► AH 4.47 |
| Receiver       | ► AH 4.48 |

DGH-B-INT 2019, HDE-en, 12/18; Dimensional data not binding. We reserve the right to alter specifications without notice.

### TECTUS TE 340 3D

#### Concealed mortise hinge, size 160 mm

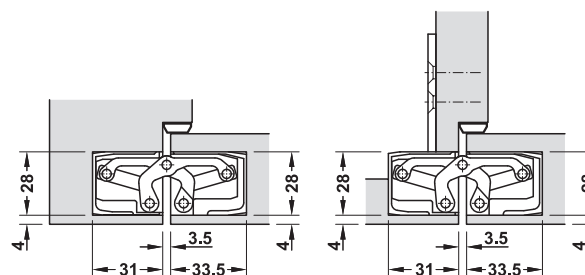


- > Area of application: For wooden, steel or aluminium frames, for flush doors
- > Door weight: ≤80 kg
- > Size: 160 mm
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable:  
Side and height ±3 mm,  
closing pressure: ±1 mm
- > Mounting: For DIN left and DIN right hand use

#### Note

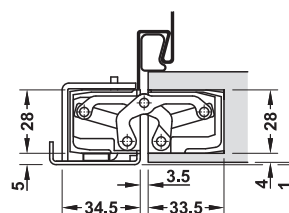
"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

#### Installation

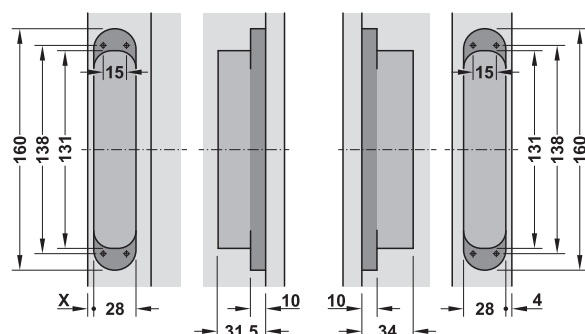


On wooden block frames

With mounting plate on  
wooden lining frames

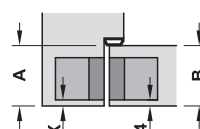


With receiver on steel frames



Routing pattern for  
wooden block frame, frame

Routing pattern for  
wooden block frame, door



Routing pattern for  
block frame, frame

#### Calculation of routing dimensions:

A = frame rebate depth to sealing level

B = door thickness or 1. door rebate

**A – B + 4 = dim. X**

The result must be a dimension between 3 mm and max. 7 mm  
(steel frame: X = 5 mm).

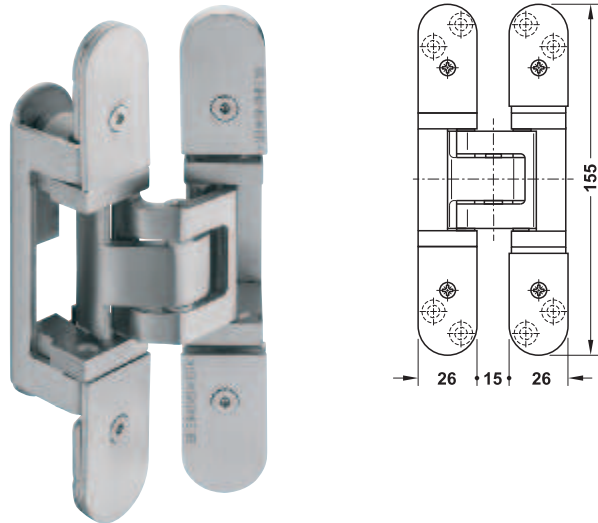
| Material  | Finish                 | Cat. No.   |
|---|------------------------|------------|
| Cover plates: Steel,<br>powder coated,<br>link: Aluminium | Stainless steel design | 924.17.104 |
|   | Silver coloured        | 924.17.121 |
|   | New silver coloured    | 924.17.122 |

Mounting plate ► AH 4.47

Receiver ► AH 4.48

**TECTUS TE 526 3D**  
**Concealed mortise hinge,**  
**size 155 mm**

For flush doors up to 100 kg



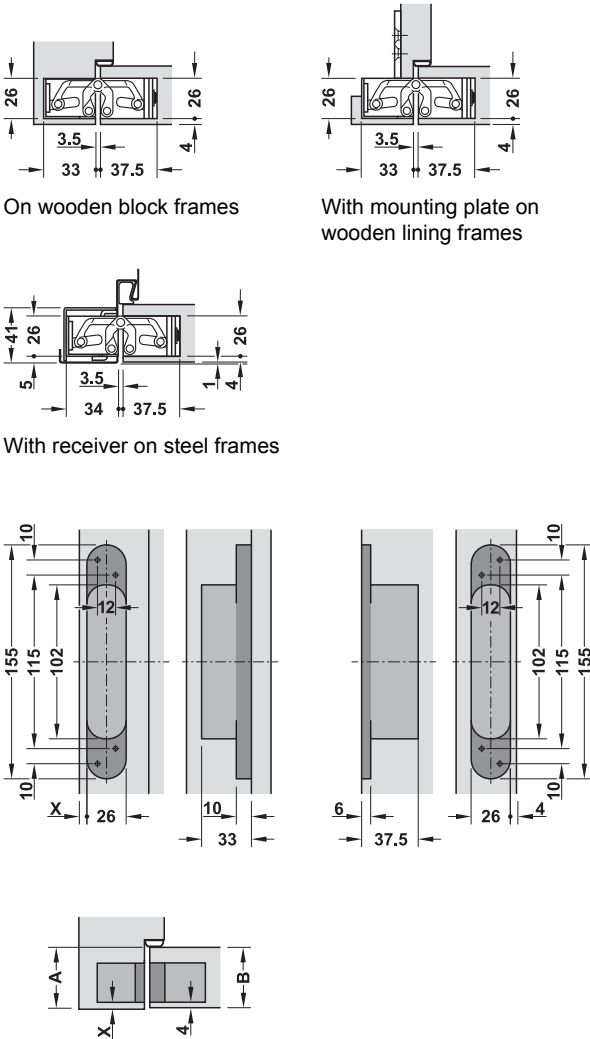
4

- > Area of application: For wooden, steel or aluminium frames, for flush doors
- > Door weight: ≤100 kg
- > Standard: certified in compliance with DIN EN 1935:2002
- > Size: 155 mm
- > Door thickness: ≥35 mm
- > Opening angle: ≤180
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable: Side and height ±3 mm, closing pressure ±1 mm
- > Bearing: Maintenance-free friction bearing technology
- > Mounting: For DIN left and DIN right hand use

**Note**

"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

**Installation**



Routing pattern for block frame, frame (left) and block frame, door (right)

| Material        | Finish | Cat. No.   |
|-----------------|--------|------------|
| Stainless steel | Satin  | 924.16.803 |

Packing: 1 or 2 pieces

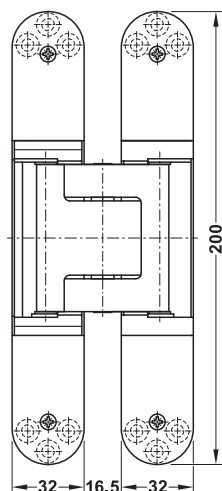
|                          |           |
|--------------------------|-----------|
| TE 526 3D mounting plate | ► AH 4.47 |
| TE 526 3D receiver       | ► AH 4.48 |



### TECTUS TE 540 3D

#### Concealed mortise hinge, size 200 mm

For flush doors up to 120 kg

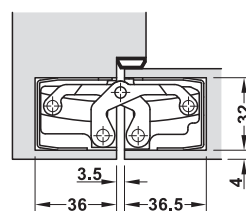


- > Area of application: For wooden, steel or aluminium frames, for flush doors
- > Door weight: ≤120 kg
- > Size: 200 mm
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable:  
Side and height ±3 mm,  
closing pressure: ±1 mm  
For DIN left and DIN right hand use
- > Mounting:

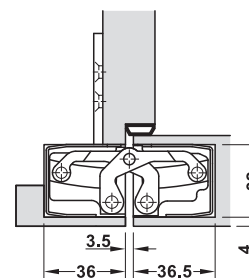
#### Note

"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

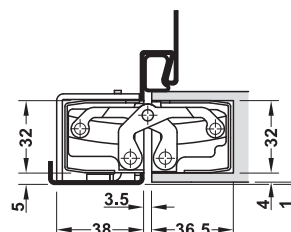
#### Installation



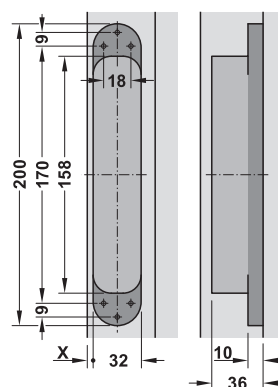
On wooden block frames



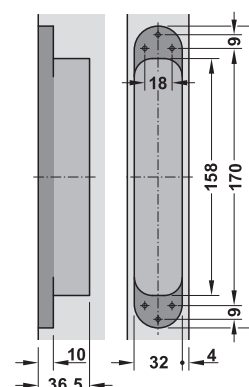
With mounting plate on  
wooden lining frames



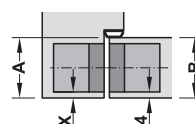
With receiver on steel frames



Routing pattern for  
wooden block frame, frame



Routing pattern for  
wooden block frame, door



Routing pattern for block frame,  
cross section

A = frame rebate depth to  
sealing level  
B = door thickness or 1. door  
rebate

#### Calculation of routing dimensions:

The following applies for wooden block frames and wooden lining frames:  $X = A - B + 4$

Prerequisite for X:  $4 \text{ mm} \leq X \leq 6 \text{ mm}$

The following applies for steel frames:  $X = 5 \text{ mm}$

| Material  | Finish                 | Cat. No.   |
|---|------------------------|------------|
| Covers: Steel,<br>powder coated,<br>link: Aluminium | Stainless steel design | 924.17.225 |
|   | Silver coloured        | 924.17.223 |
|   | New silver coloured    | 924.17.224 |

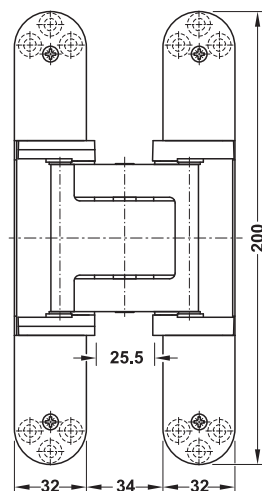
Packing: 1 or 2 pieces

|                |           |
|----------------|-----------|
| Mounting plate | ► AH 4.47 |
| Receiver       | ► AH 4.48 |

### TECTUS TE 540 3D A8

#### Concealed mortise hinge, size 200 mm

For flush doors up to 100 kg with doubling elements

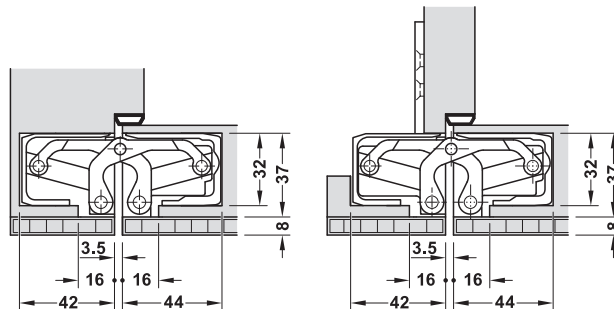


- > Area of application: For wooden, steel or aluminium frames, for doors with doubling elements up to 8 mm
- > Door weight: ≤100 kg
- > Size: 200 mm
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable: Side and height ±3 mm, closing pressure: ±1 mm
- > Mounting: For DIN left and DIN right hand use

#### Note

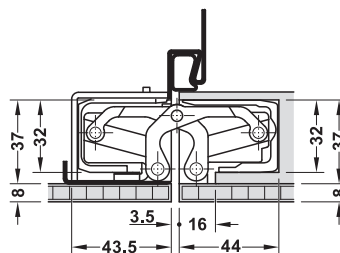
"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

#### Installation

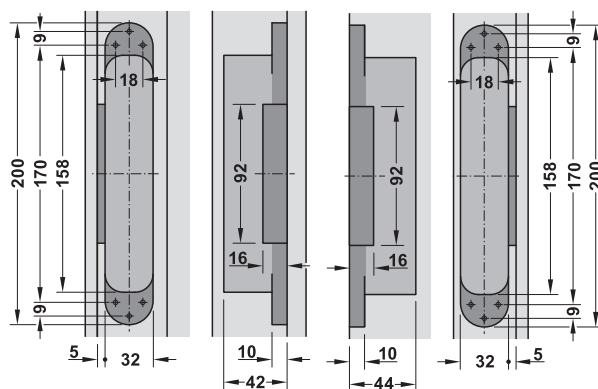


On wooden block frames

With mounting plate on wooden lining frames

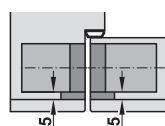


With receiver on steel frames



Routing pattern for wooden block frame, frame

Routing pattern for wooden block frame, door



Routing pattern for block frame, cross section

| Material  | Finish                 | Cat. No.   |
|---|------------------------|------------|
| Covers: Steel,<br>powder coated,<br>link: Aluminium | Stainless steel design | 924.17.325 |
|   | Silver coloured        | 924.17.323 |
|   | New silver coloured    | 924.17.324 |

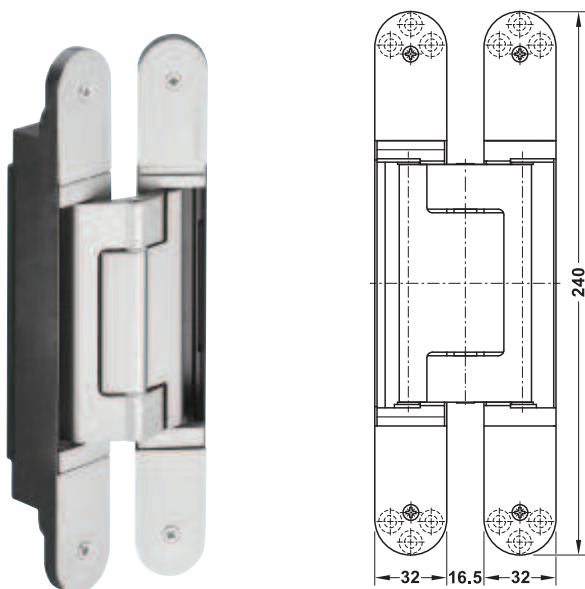
Packing: 1 or 2 pieces

|                |           |
|----------------|-----------|
| Mounting plate | ► AH 4.47 |
| Receiver       | ► AH 4.48 |

### TECTUS TE 640 3 D

#### Concealed mortise hinge, size 240 mm

For flush doors up to 200 kg

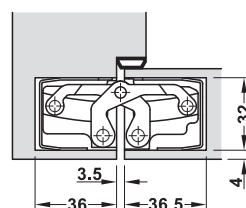


- > Area of application: For wooden, steel or aluminium frames, for flush doors
- > Door weight: ≤200 kg
- > Size: 240 mm
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable:  
Side and height ±3 mm,  
closing pressure: ±1 mm
- > Mounting: For DIN left and DIN right hand use

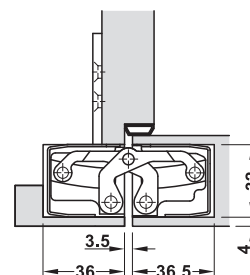
#### Note

"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

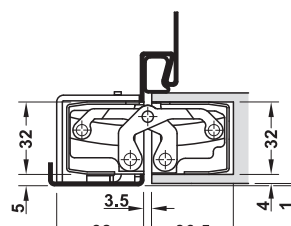
#### Installation



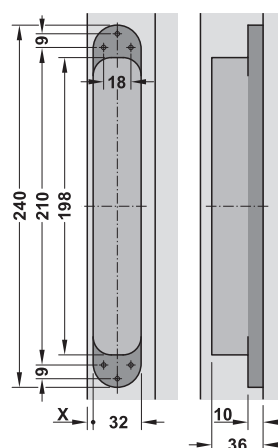
On wooden block frames



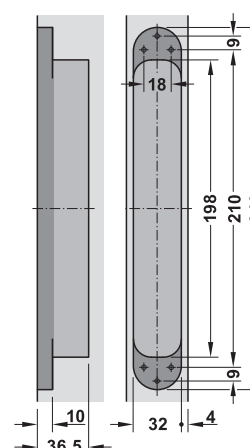
With mounting plate on  
wooden lining frames



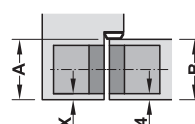
With receiver on steel frames



Routing pattern for  
wooden block frame, frame



Routing pattern for  
wooden block frame, door



Routing pattern for  
block frame, cross section

A = frame rebate depth to  
sealing level  
B = door thickness or 1. door  
rebate

#### Calculation of routing dimensions:

The following applies for wooden block frames and wooden lining frames:  $A - B + 4$

Prerequisite for X:  $4 \text{ mm} \leq X \leq 6 \text{ mm}$

The following applies for steel frames:  $X = 5 \text{ mm}$

| Material        | Finish                 | Cat. No.   |
|-----------------|------------------------|------------|
| Covers: Steel,  | Stainless steel design | 924.17.425 |
| powder coated,  | Silver coloured        | 924.17.423 |
| link: Aluminium | New silver coloured    | 924.17.424 |

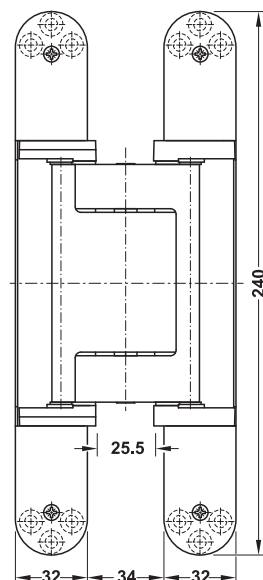
Packing: 1 or 2 pieces

|                |           |
|----------------|-----------|
| Mounting plate | ► AH 4.47 |
| Receiver       | ► AH 4.48 |

### TECTUS TE 640 3D A8

#### Concealed mortise hinge, size 240 mm

For flush doors up to 160 kg, with doubling elements

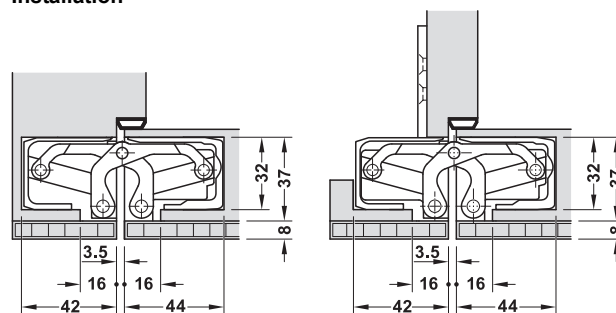


- > Area of application: For wooden, steel or aluminium frames, for doors with doubling elements up to 8 mm
- > Door weight: ≤160 kg
- > Size: 240 mm
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable: Side and height ±3 mm, closing pressure: ±1 mm
- > Mounting: For DIN left and DIN right hand use

#### Note

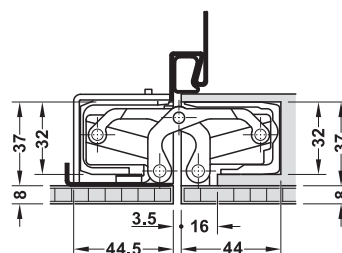
"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

#### Installation

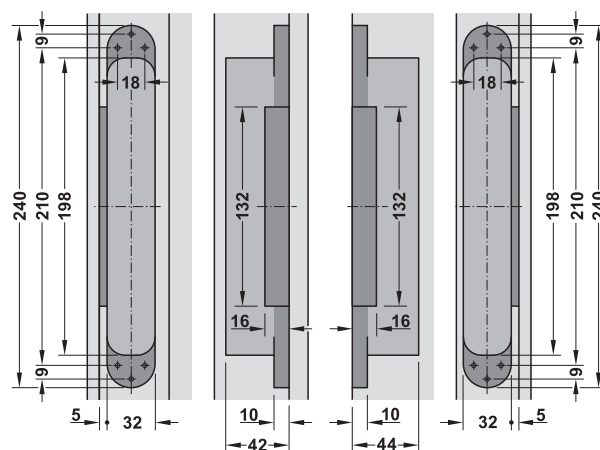


On wooden block frames

With mounting plate on wooden lining frames

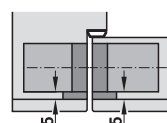


With receiver on steel frames



Routing pattern for wooden block frame, frame

Routing pattern for wooden block frame, door



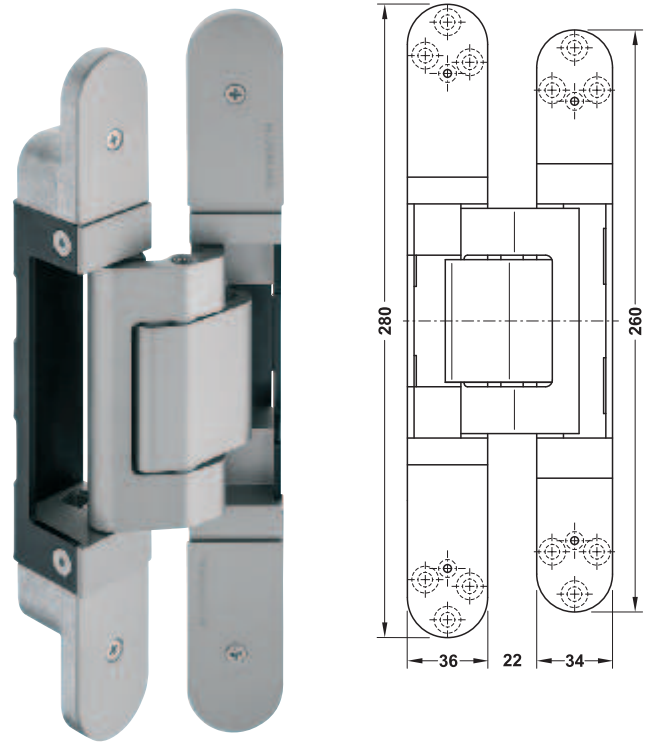
Routing pattern for block frame, cross section

| Material  | Finish                 | Cat. No.   |
|---|------------------------|------------|
| Covers: Steel,<br>powder coated,<br>link: Aluminium | Stainless steel design | 924.17.525 |
|   | Silver coloured        | 924.17.523 |
|   | New silver coloured    | 924.17.524 |

Packing: 1 or 2 pieces

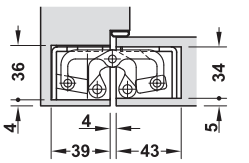
|                |           |
|----------------|-----------|
| Mounting plate | ► AH 4.47 |
| Receiver       | ► AH 4.48 |

**TECTUS TE 645 3D**  
**Concealed mortise hinge,**  
**size 280 mm**  
For flush doors up to 300 kg

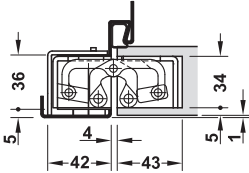


- > Area of application: For wooden, steel or aluminium frames, for flush doors
- > Door weight: ≤300 kg
- > Size: 280 mm
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable:  
Side and height ±3 mm,  
closing pressure: ±1 mm  
For DIN left and DIN right hand use
- > Mounting:

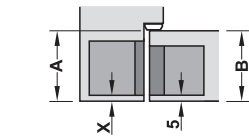
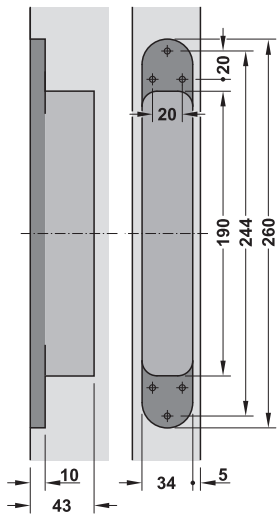
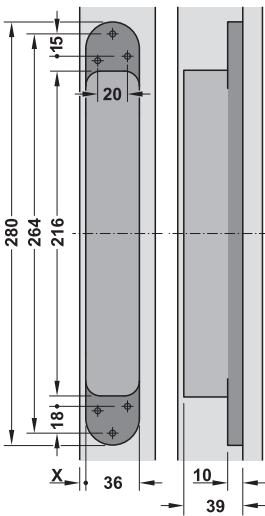
Installation



On wooden block frames



With receiver  
on steel frames



Routing pattern for  
block frame, frame

Routing pattern for  
block frame, door

| Material                                     | Finish                 | Cat. No.   |
|--|------------------------|------------|
| Covers: Steel, powder coated link: Aluminium | Silver coloured        | 924.19.004 |
|  | Stainless steel design | 924.19.000 |

Note

"Energy" version for permanent and invisible energy transmission from the door frame to the door leaf optionally available.

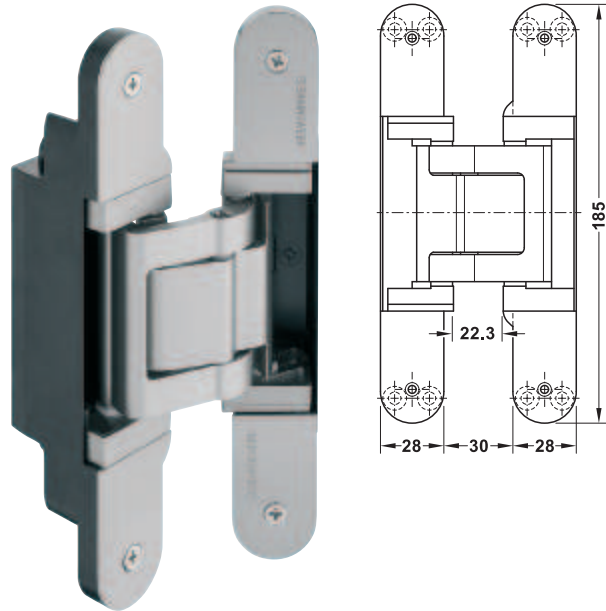
|                |           |
|----------------|-----------|
| Mounting plate | ► AH 4.47 |
| Receiver       | ► AH 4.48 |

**TECTUS TE 541 3D FVZ**  
**Concealed mortise hinge,**  
**size 185 mm**

For flush doors up to 100 kg,  
with recessed frame facing

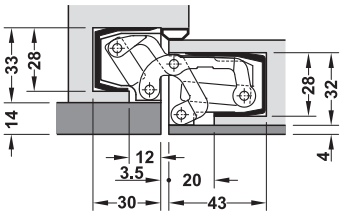


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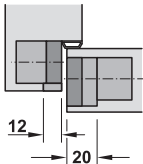
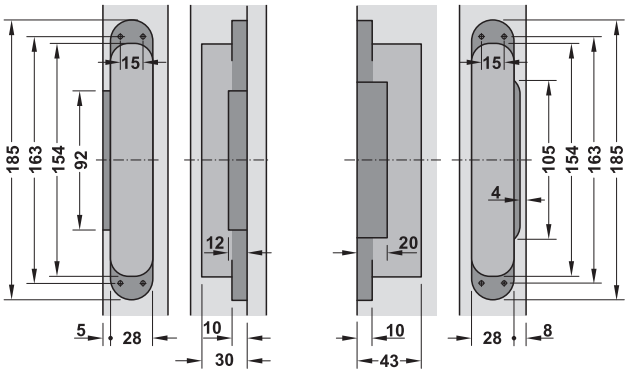


- > Area of application: For wooden, steel or aluminium frames, for flush doors with recessed frame facing
- > Door weight: ≤100 kg
- > Size: 185 mm
- > Door thickness: ≥40 mm
- > Opening angle: ≤180°
- > Router bit Ø: 24 mm
- > Seal ring Ø: 30 mm
- > Adjustment facility: Continuously 3D adjustable: Side and height ±3 mm, closing pressure: ±1 mm
- > Mounting: For DIN left and DIN right hand use

**Installation**



**Recessed frame facing**



Routing pattern for  
block frame, frame

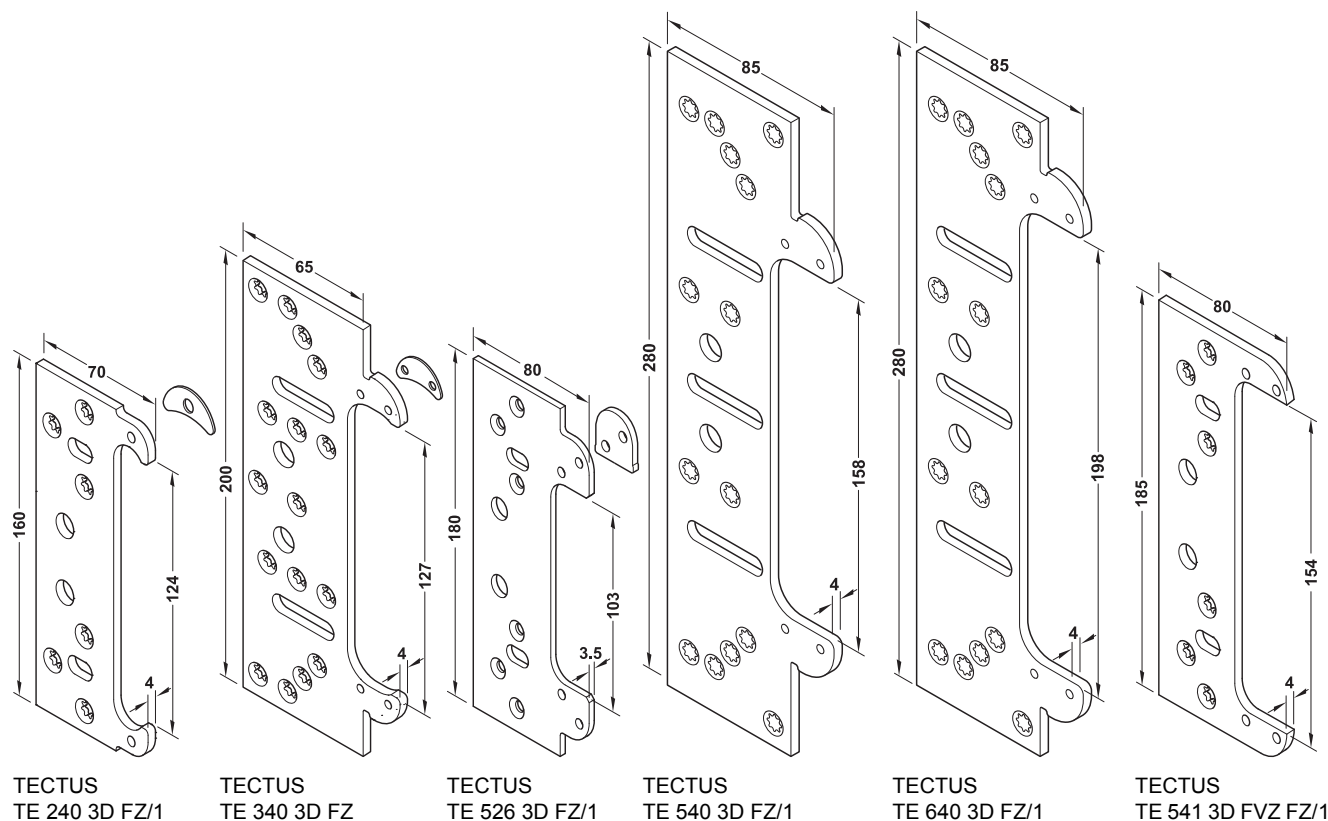
Routing pattern for  
block frame, door

| Material   | Finish                 | Cat. No.   |
|--|------------------------|------------|
| Covers: Steel,<br>powder coated<br>link: aluminium | Stainless steel design | 924.19.010 |
|  | Silver coloured        | 924.19.019 |

Packing: 1 or 2 pieces

|                |           |
|----------------|-----------|
| Mounting plate | ► AH 4.47 |
| Receiver       | ► AH 4.48 |

### TECTUS TE 240/340/526/540/541/640 3D FZ/1 Mounting plate



- > Area of application: For TECTUS TE 240/340/526/540/640 3D/3D A8/541 3D FVZ concealed mortice hinges, for wooden lining frames
- > Material: Steel
- > Finish: Galvanized
- > Mounting: For DIN left and DIN right hand use

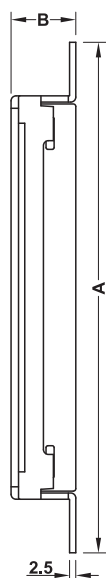
#### Supplied with

- 1 mounting plate
- 2 spacer plates each of 0.5, 1, 2, 3 mm
- TE 526 without 0.5 mm spacer plates

| Model                     | Cat. No.   |
|---------------------------|------------|
| TECTUS TE 240 3D FZ/1     | 924.17.098 |
| TECTUS TE 340 3D FZ       | 924.17.192 |
| TECTUS TE 526 3D FZ/1     | 924.04.983 |
| TECTUS TE 540 3D FZ/1     | 924.17.298 |
| TECTUS TE 640 3D FZ/1     | 924.17.498 |
| TECTUS TE 541 3D FVZ FZ/1 | 924.19.027 |

|                                 |           |
|---------------------------------|-----------|
| TECTUS TE 240 3D door hinge     | ► AH 4.38 |
| TECTUS TE 340 3D door hinge     | ► AH 4.39 |
| TECTUS TE 526 3D door hinge     | ► AH 4.40 |
| TECTUS TE 540 3D door hinge     | ► AH 4.41 |
| TECTUS TE 540 3D A8 door hinge  | ► AH 4.42 |
| TECTUS TE 640 3D door hinge     | ► AH 4.43 |
| TECTUS TE 640 3D A8 door hinge  | ► AH 4.44 |
| TECTUS TE 541 3D FVZ door hinge | ► AH 4.46 |

**TECTUS TE 240/340/526/540/541/640/645 3D (A8) SZ (SZ/1) Receiver**

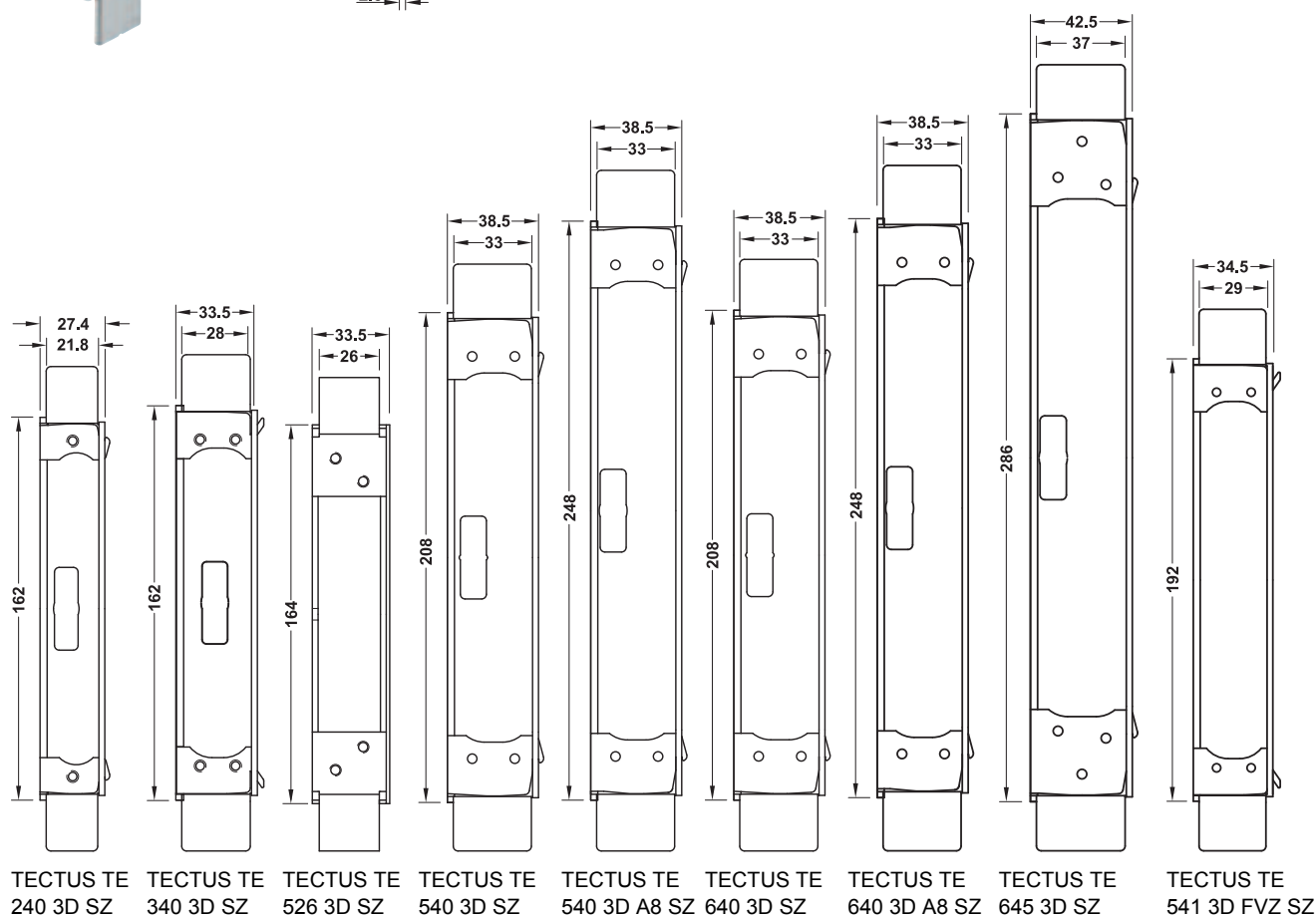


- > Area of application: For TECTUS TE 240/340/525/526/540/541/640/645 3D (A8) concealed mortise hinge for steel frames
- > Material: Steel
- > Finish: Galvanized
- > Mounting: For DIN left and DIN right hand use

| Model                   | Dim. A mm | Dim. B mm | Cat. No.   |
|-------------------------|-----------|-----------|------------|
| TECTUS TE 240 3D SZ     | 205       | 26        | 924.17.099 |
| TECTUS TE 340 3D SZ/1   | 225       | 35.5      | 924.17.199 |
| TECTUS TE 526 3D SZ     | 205       | 35.5      | 924.05.083 |
| TECTUS TE 540 3D SZ     | 248       | 38        | 924.17.299 |
| TECTUS TE 640 3D SZ     | 288       | 38        | 924.17.499 |
| TECTUS TE 540 3D A8 SZ  | 250       | 43        | 924.17.799 |
| TECTUS TE 640 3D A8 SZ  | 290       | 43        | 924.17.899 |
| TECTUS TE 645 3D SZ     | 328       | 42.5      | 924.19.029 |
| TECTUS TE 541 3D FVZ SZ | 235       | 34.5      | 924.19.028 |



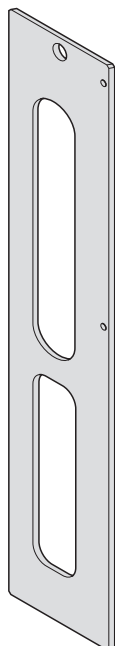
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|                                 |           |
|---------------------------------|-----------|
| TECTUS TE 240 3D door hinge     | ► AH 4.38 |
| TECTUS TE 526 3D door hinge     | ► AH 4.40 |
| TECTUS TE 540 3D door hinge     | ► AH 4.41 |
| TECTUS TE 540 3D A8 door hinge  | ► AH 4.42 |
| TECTUS TE 640 3D door hinge     | ► AH 4.43 |
| TECTUS TE 640 3D A8 door hinge  | ► AH 4.44 |
| TECTUS TE 645 3D door hinge     | ► AH 4.45 |
| TECTUS TE 541 3D FVZ door hinge | ► AH 4.46 |



## TECTUS TE 240/340/526/540/640 3D and TECTUS TE 540/640 3D A8 Routing template



- > Area of application: For routing the hinge recesses for TECTUS TE 240/340/526/540/640 3D, TECTUS TE 540/640 3D A8 concealed mortice hinges
- > Router bit Ø: 24 mm, with TE 240: 16
- > Seal ring Ø: 30 mm

| Suitable for        | Version                     | Cat. No.   |
|---------------------|-----------------------------|------------|
| TECTUS TE 240 3D    | Wing part                   | 924.17.600 |
|                     | Frame part                  | 924.17.601 |
| TECTUS TE 340 3D    | Wing and frame part, step 1 | 924.17.611 |
|                     | Wing and frame part, step 2 | 924.17.612 |
| TECTUS TE 526 3D    | Wing and frame part         | 924.02.320 |
| TECTUS TE 540 3D    | Wing and frame part, step 1 | 924.17.621 |
| TECTUS TE 540 3D A8 | Wing and frame part, step 2 | 924.17.622 |
| TECTUS TE 540 3D A8 | Wing and frame part, step 3 | 924.17.623 |
| TECTUS TE 640 3D    | Wing and frame part, step 1 | 924.08.701 |
| TECTUS TE 640 3D A8 | Wing and frame part, step 2 | 924.17.632 |
| TECTUS TE 640 3D A8 | Wing and frame part, step 3 | 924.17.633 |

### Note

Following versions are required for each hinge:

| Door hinge          | Routing template version |
|---------------------|--------------------------|
| TECTUS TE 240 3D    | Wing and frame part      |
| TECTUS TE 340 3D    | Step 1 and 2             |
| TECTUS TE 526 3D    | Wing and frame part      |
| TECTUS TE 540 3D    | Step 1 and 2             |
| TECTUS TE 540 3D A8 | Step 1, 2 and 3          |
| TECTUS TE 640 3D    | Step 1 and 2             |
| TECTUS TE 640 3D A8 | Step 1, 2 and 3          |



4

## TECTUS TE 526 3D Drilling jig



- > Area of application: For drilling the fixing holes of TECTUS TE 526 3D concealed mortice hinge

### Supplied with

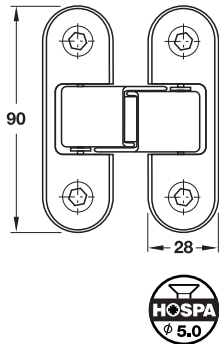
- 1 drilling jig
- 1 drill bit Ø 3 mm

| Suitable for     | Cat. No.   |
|------------------|------------|
| TECTUS TE 526 3D | 924.02.330 |

|                                |           |
|--------------------------------|-----------|
| TECTUS TE 240 3D door hinge    | ► AH 4.38 |
| TECTUS TE 340 3D door hinge    | ► AH 4.39 |
| TECTUS TE 526 3D door hinge    | ► AH 4.40 |
| TECTUS TE 540 3D door hinge    | ► AH 4.41 |
| TECTUS TE 540 3D A8 door hinge | ► AH 4.42 |
| TECTUS TE 640 3D door hinge    | ► AH 4.43 |
| TECTUS TE 640 3D A8 door hinge | ► AH 4.44 |

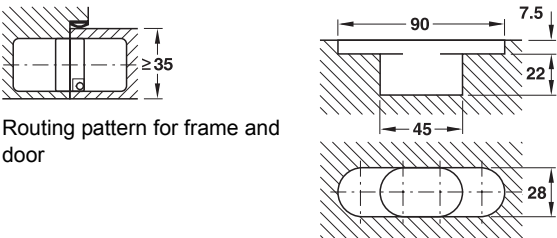
Concealed mortise hinge,  
size 90 mm

For flush doors up to 50 kg, polyamide housing



- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤50 kg with 2 door hinges
- > Door thickness: ≥35 mm
- > Opening angle: ≤180°
- > Material: Housing: Polyamide, link and screw-on plate: Stainless steel
- > Mounting: For DIN left and DIN right hand use

Installation

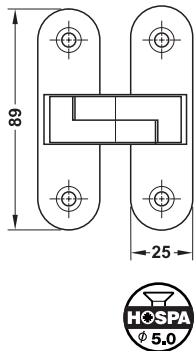


Routing pattern for frame and door

| Material                  | Cat. No.   |
|---------------------------|------------|
| Polyamide/stainless steel | 927.51.003 |

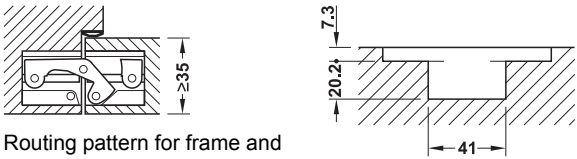
Concealed mortise hinge,  
size 89 mm

For flush doors up to 40/60 kg, polyamide housing



- > Area of application: For wooden frames, for flush wooden interior doors
- > Door weight: ≤40 kg with 2 door hinges, ≤60 kg with 3 door hinges
- > Door thickness: ≥35 mm
- > Opening angle: ≤180°
- > Material: Housing: Polyamide, link and screw-on plate: Stainless steel
- > Mounting: For DIN left and DIN right hand use

Installation



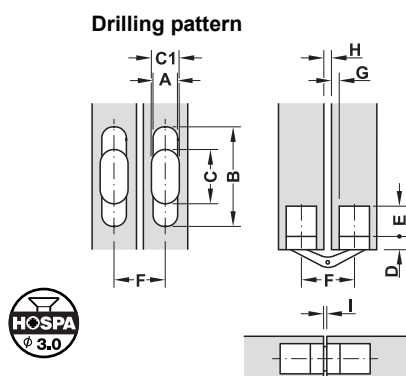
Routing pattern for frame and door

| Material                  | Cat. No.   |
|---------------------------|------------|
| Polyamide/stainless steel | 921.07.400 |

DGH-B-INT 2019, HDE-en, 12/18; Dimensional data not binding. We reserve the right to alter specifications without notice.

## Concealed mortise hinge, size 90 mm

For flush doors, zinc alloy housing



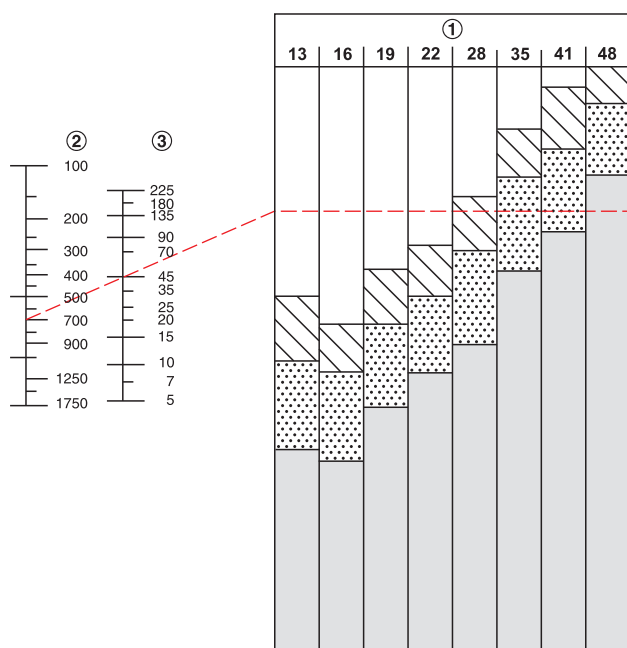
Version with plastic slide plates

- > Area of application: For wooden frames, for flush wooden or metal interior doors
- > Version: Link with or without plastic slide plates
- > Opening angle:  $\leq 180^\circ$
- > Mounting: For DIN left and DIN right hand use

### Application and planning dimensions

| For door thickness mm | 28–34 | 35–38 | 41–45 | 48–51 |
|-----------------------|-------|-------|-------|-------|
| Dim. A mm             | 19.4  | 25.6  | 28.5  | 35.6  |
| Dim. B mm             | 95.0  | 117.0 | 117.5 | 139.1 |
| Dim. C mm             | 53.0  | 66.0  | 78.0  | 78.0  |
| Dim. C1 mm            | 20.0  | 26.0  | 31.0  | 37.0  |
| Dim. D mm             | 9.5   | 12.0  | 10.0  | 11.9  |
| Dim. E mm             | 29.0  | 39.0  | 43.0  | 52.0  |
| Gap F mm              | 32.6  | 43.7  | 50.9  | 62.0  |
| Gap G mm              | 4.8   | 6.4   | 6.4   | 7.5   |
| Gap H mm              | 4.0   | 5.5   | 9.5   | 8.0   |
| Gap I mm              | 1.2   | 1.6   | 1.2   | 1.6   |

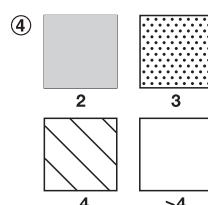
### Reference table for calculating the number of required hinges



Example:

A door 700 mm wide that weighs 45 kg and has a thickness of 41 mm would require 3 concealed hinges No. 341.07.572 or 341.07.772

- ① Door thickness in mm
- ② Door width in mm
- ③ Door weight in kg
- ④ Number of hinges



### → Without fire protection

- > Material: Housing: Zinc alloy, link: Steel

| Door thickness mm | Version                      | Brass plated | Nickel plated |
|-------------------|------------------------------|--------------|---------------|
| 28–34             | Without plastic slide plates | 341.07.554   | 341.07.754    |
| 35–38             | Without plastic slide plates | 341.07.563   | 341.07.763    |
| 41–45             | With plastic slide plates    | 341.07.572   | 341.07.772    |
| 48–51             | With plastic slide plates    | 341.07.581   | 341.07.781    |

### → With fire protection



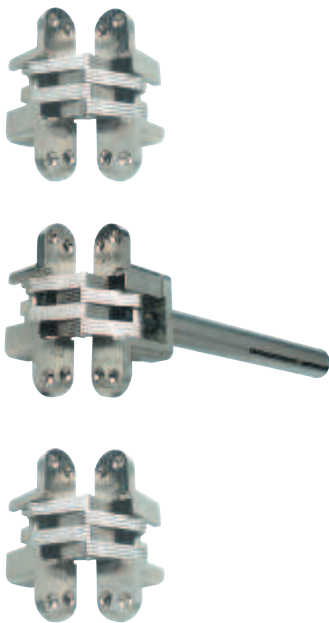
- > Material: Steel
- > Standard: The use on fire resistant and smoke control doors in compliance with BS 476, Part 22:1987 is permitted

| Door thickness mm | Version                      | Brass plated | Nickel plated |
|-------------------|------------------------------|--------------|---------------|
| 41–45             | Without plastic slide plates | 927.50.505   | 927.50.507    |

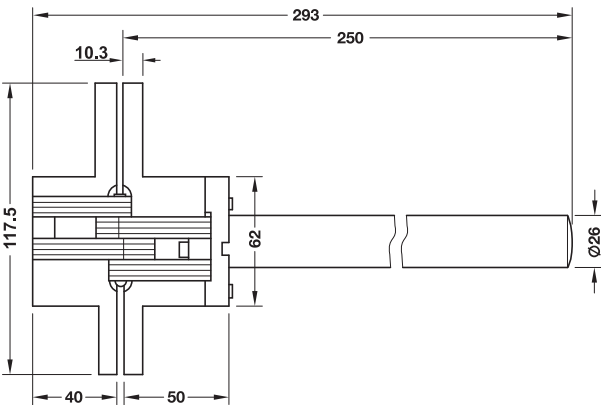
### Order reference

Fixing material supplied.

Concealed mortice hinge

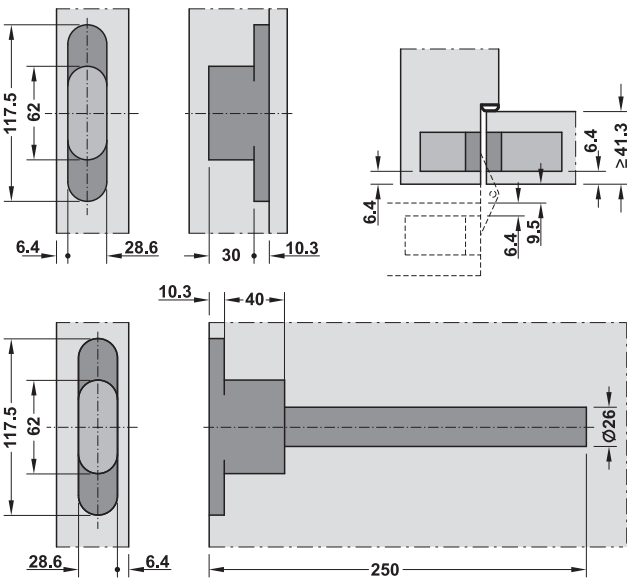


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- > Area of application: For wooden or metal frames, for flush wooden or metal interior doors
- > Door weight: ≤25 kg, with 3 hinges
- > Door height: ≤2,200 mm
- > Door width: ≤900 mm
- > Door thickness: ≥41.3 mm
- > Size: 117 mm
- > Opening angle: ≤180°
- > Version: With door closer function
- > Material: Steel
- > Mounting: For DIN left and DIN right hand use
- > Standard: The use on fire resistant and smoke control doors in compliance with BS 476, Part 22:1987 is permitted

Installation



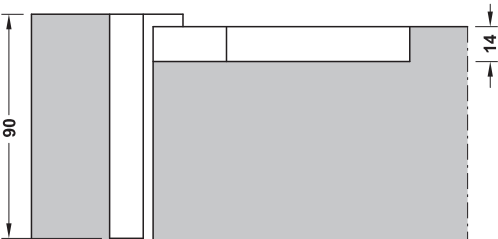
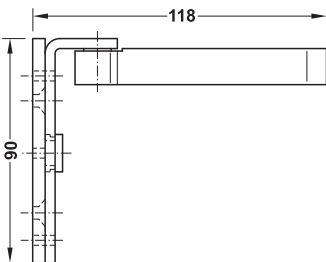
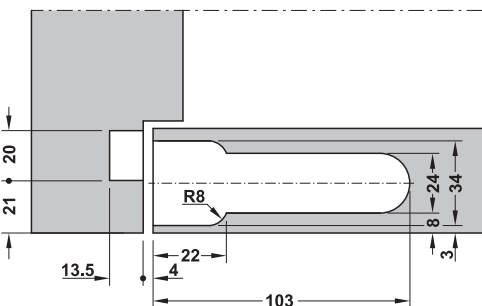
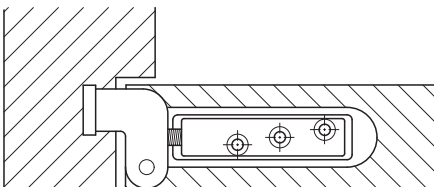
| Finish        | Cat. No.   |
|---------------|------------|
| Nickel plated | 927.50.207 |

**CIR Concealed mortise hinge**  
For flush doors



- > Area of application: For concealed mounting of flush doors
- > Version: With maintenance-free bearing
- > Door weight: ≤70 kg
- > Adjustment facility: Lateral inclination each side ±3 mm, closing pressure each ±1.5 mm
- > Mounting: For DIN left and DIN right hand use

**Installation**



| Material | Finish     | Cat. No.   |
|----------|------------|------------|
| Steel    | Galvanized | 927.54.090 |

Packing: 1 or 6 sets

**Cover cap**  
For CIR mortise hinge



- > Area of application: For CIR concealed mortise hinge

| Material | Finish             | Cat. No.   |
|----------|--------------------|------------|
| Plastic  | Matt chrome plated | 927.54.141 |
|          | Brass plated       | 927.54.180 |

**Routing jig**  
For CIR mortise hinge



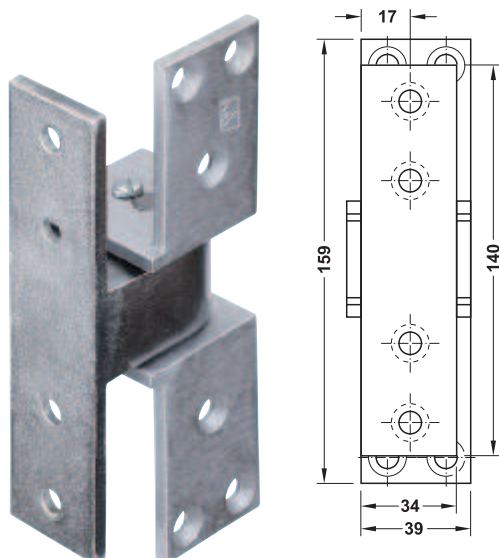
- > Area of application: For CIR concealed mortise hinge

| Material | Cat. No.   |
|----------|------------|
| Steel    | 927.54.200 |

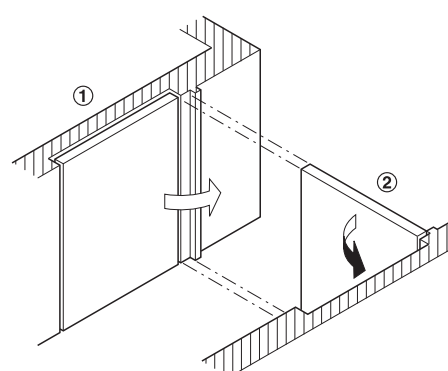
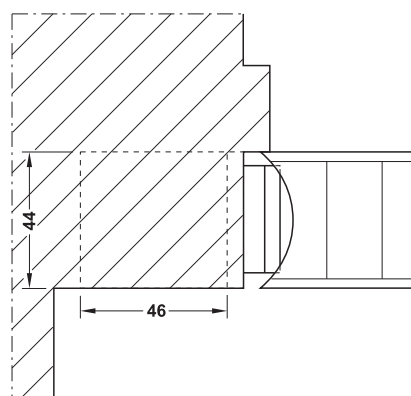
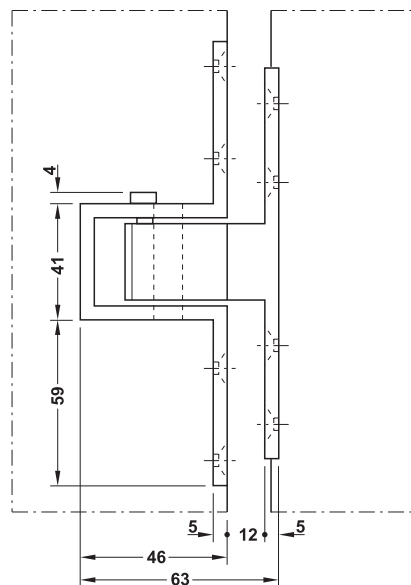


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## Concealed mortise hinge



### Installation



- ① DIN L
- ② DIN R

- > Area of application: For installation in wall recesses, for flush wooden or metal doors
- > Door height:  $\leq 2,150$  mm
- > Door width:  $\leq 1,200$  mm
- > Door thickness: 45 mm
- > Size: 159 mm
- > Material: Steel
- > Mounting: For DIN left and DIN right hand use
- > Standard: Certified for fire resistant and smoke control doors in compliance with ANSI 156.1 and NFPA 80

### Note

The number of required hinges depends on the door size and door weight.

| Max. door size<br>mm | Max. door weight<br>mm | Number of<br>hinges |
|----------------------|------------------------|---------------------|
| 900 x 2150           | 68                     | 2                   |
| 900 x 2150           | 113                    | 3                   |
| 1200 x 2150          | 158                    | 4                   |

| Finish             | Cat. No.   |
|--------------------|------------|
| Matt chrome plated | 921.07.116 |