System Fx
Technical documentation
Functionalities and specifics

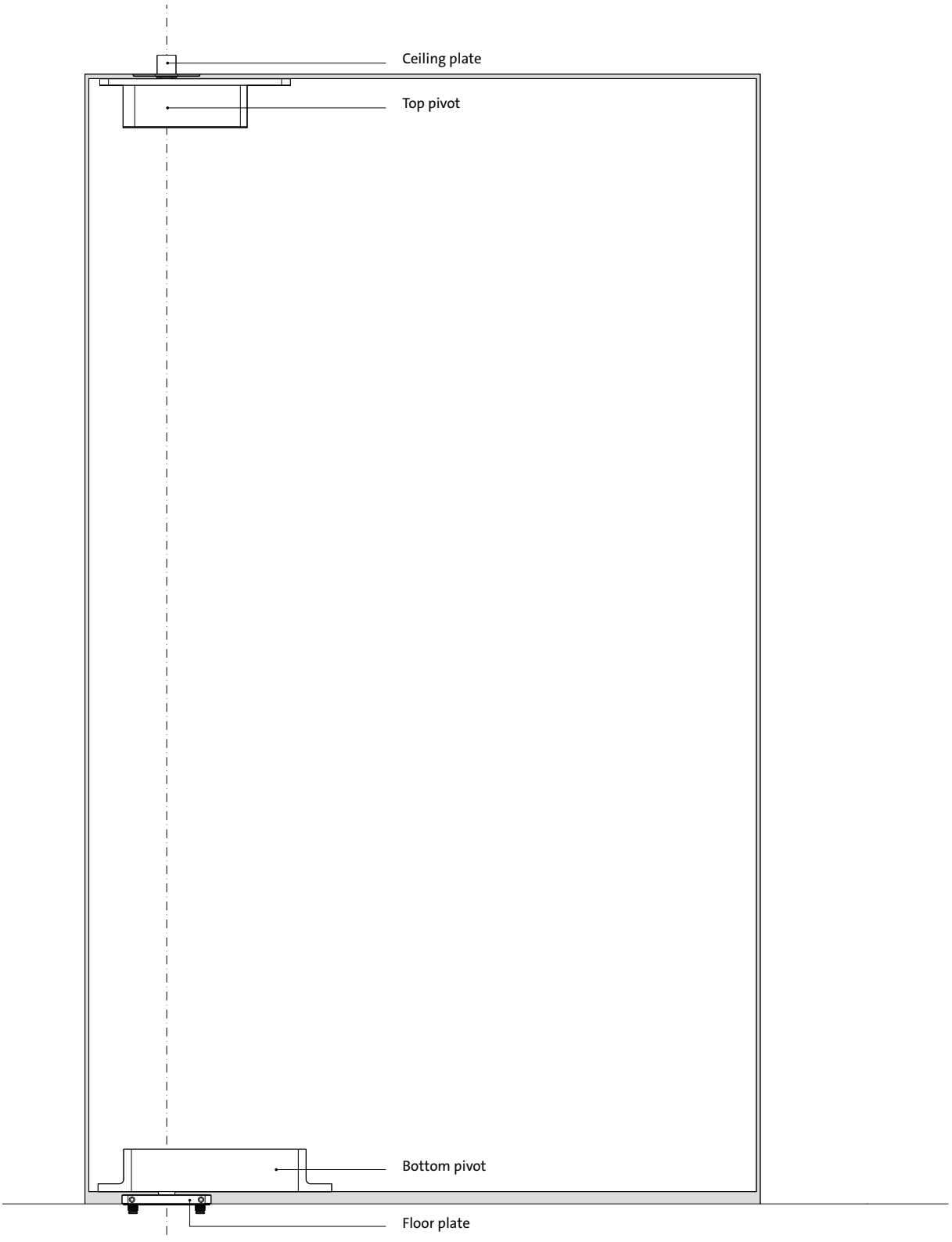
FritsJurgens®

Overview

The System Fx offers perfection in a compact design. Ideal for interior door applications, this solution offers a minimalistic, sleek design with maximum durability thanks to its extreme high quality. Ideal for quick and easy installation without compromising on strength or aesthetics.

Components

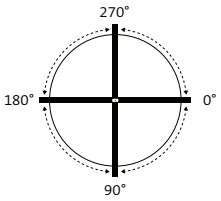
Our systems always consist of the following components:



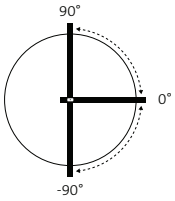
Functions

Rotation	Revolving: 360° Double-acting: 180° Single-acting: 90°
Hold positions	Revolving: 0°, 90°, 180° and 270° Double-acting: 90°, –90° and 0° Single-acting: 90° and 0°
Free swing	Yes, between 10° and 80°
Self-closing	No

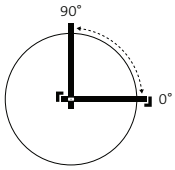
Rotation



Revolving
Revolving means that the pivot door can rotate a full 360°, with hold positions at 0°, 90°, 180°, and 270°.



Double-acting
Double-acting means that the pivot door can be opened towards both sides, with a hold position at 90° at either side.

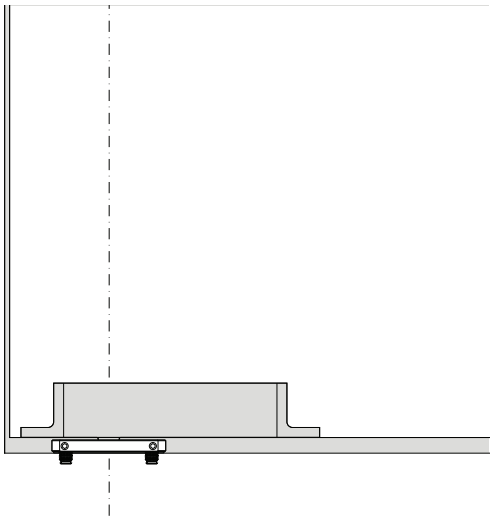


Single-acting
Single-acting means that the pivot door can only be opened towards a single side. This is enforced by an external stop such as the door frame.

Bottom pivots

It all hinges on the bottom pivot. Our bottom pivots are easily applicable to the side as well as to the middle of the door.

Variants

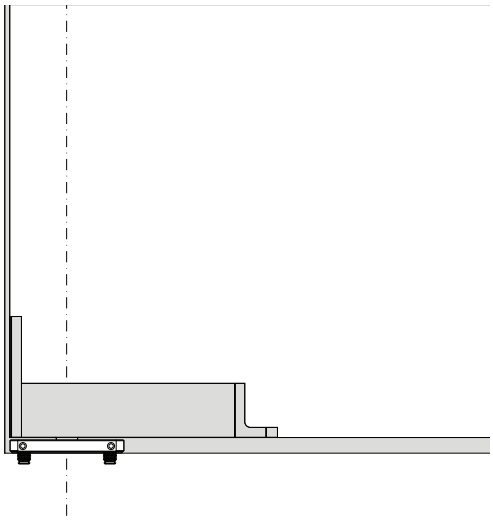


System Fx 70 mm Class A and C

210 × 32 × 38 mm

Placement	Side to middle placement
Pivot point	Pivot point from 70 mm to middle placement
Cover plates	No
Door weight*	Class A: 20 - 119 kg Class C: up to 209 kg

Compatible with	
Top pivots	Top pivot 70 mm Class B (Class A) Top pivot 70 mm Class G (Class C) Top pivot Reversed (all classes)
Floor plates	Floor plate squared Floor plate round Floor plate Flush squared Floor plate Flush rounded



System Fx 40 mm Class A and C

188 × 32 × 85 mm

Placement	Side placement
Pivot point	Fixed pivot point at 40 mm
Cover plates	Yes
Door weight*	Class A: 20 - 119 kg Class C: up to 209 kg

Compatible with	
Top pivots	Top pivot 40 mm Class B (Class A) Top pivot 40 mm Class G (Class C) Top pivot Reversed (all classes)
Floor plates	Floor plate squared Floor plate round Floor plate Flush squared Floor plate Flush rounded

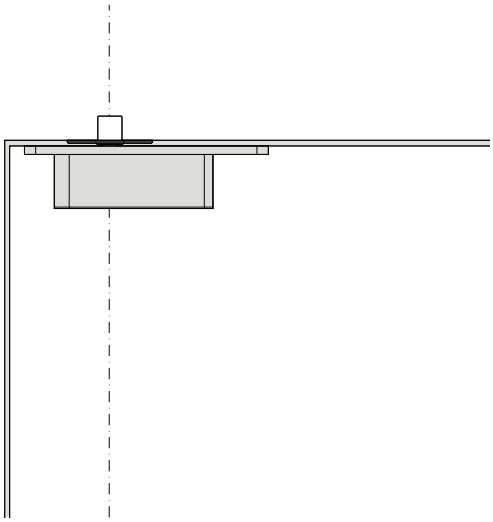
* Depending on door width, see System Fx weight classes table.

Find out more about top pivots or floor plates.

Top pivots

The top pivot anchors the pivot door between the floor and the ceiling.

Installation inside the door

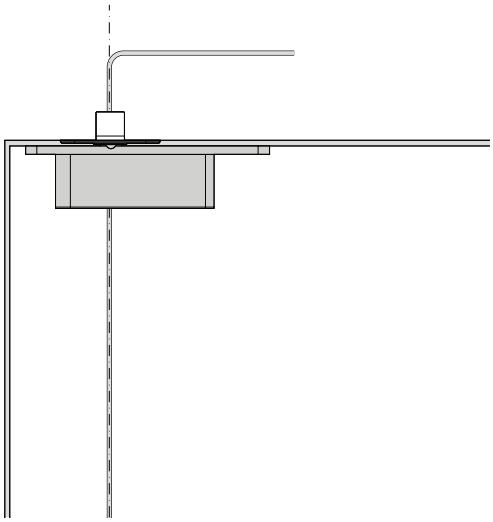


Top pivot 70 mm Class B

171.5 × 32 × 44 mm

Placement	Side to middle placement
Pin diameter	Ø10 mm
Pivot point	Pivot point from 70 mm to middle placement
Adjustment	From the side of the door: 5 mm to the left and 5 mm to the right
Cable grommet	No
Cover plates	No

Compatible with	
Bottom pivots	System Fx 70 mm (Class A)
Ceiling plates	Ceiling plate Class B



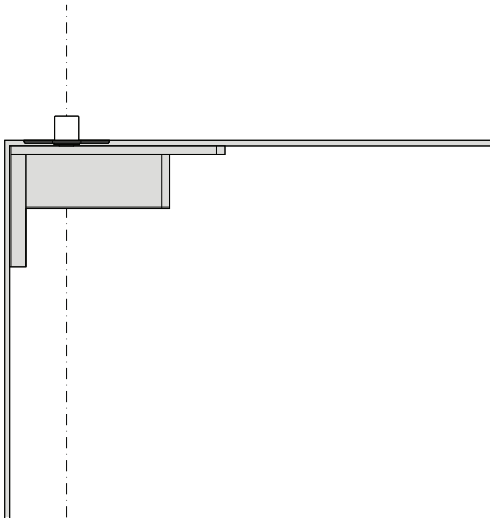
Top pivot 70 mm Class G

171.5 × 32 × 44 mm

Placement	Side to middle placement
Pin diameter	Ø15 mm
Pivot point	Pivot point from 70 mm to middle placement
Adjustment	From the side of the door: 5 mm to the left and 5 mm to the right
Cable grommet	Yes, Ø7.5 mm cable entry
Cover plates	No

Compatible with	
Bottom pivots	System Fx 70 mm (Class C)
Ceiling plates	Ceiling plate Class G

Find out more about ceiling plates.

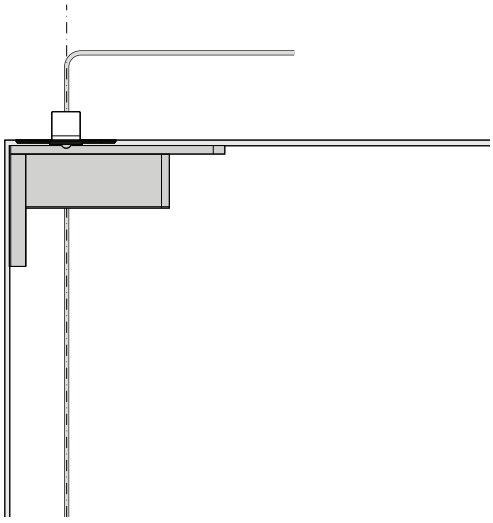


Top pivot 40 mm Class B

151.5 × 32 × 85 mm

Placement	Side placement
Pin diameter	Ø10 mm
Pivot point	Fixed pivot point at 40 mm
Adjustment	From the side of the door: 5 mm to the left and 5 mm to the right
Cable grommet	No
Cover plates	Stainless steel Black

Compatible with	
Bottom pivots	System Fx 40 mm (Class A)
Ceiling plates	Ceiling plate Class B



Top pivot 40 mm Class G

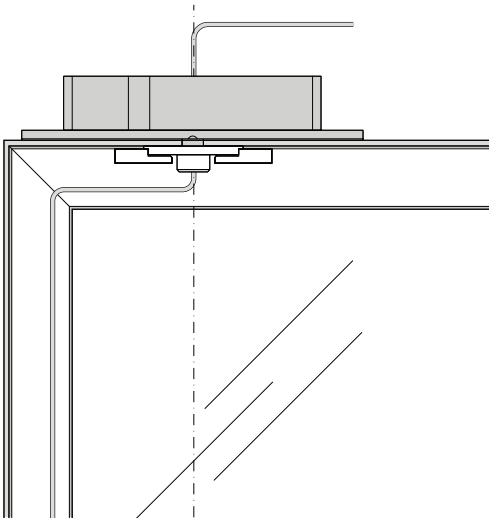
151.5 × 32 × 85 mm

Placement	Side placement
Pin diameter	Ø15 mm
Pivot point	Fixed pivot point at 40 mm
Adjustment	From the side of the door: 5 mm to the left and 5 mm to the right
Cable grommet	Yes, Ø7.5 mm cable entry
Cover plates	Stainless steel Black

Compatible with	
Bottom pivots	System Fx 40 mm (Class C)
Ceiling plates	Ceiling plate Class G

Find out more about ceiling plates.

Installation in the head jamb



Top pivot Reversed

240 × 32 × 45 mm

Placement	Side to middle placement
Pin diameter	Ø15 mm
Pivot point	Pivot point from 130 mm to middle placement
Adjustment	From inside the door opening, 5 mm to the left and 5 mm to the right
Cable grommet	Yes, Ø7.5 mm cable entry
Cover plates	Stainless steel Black White

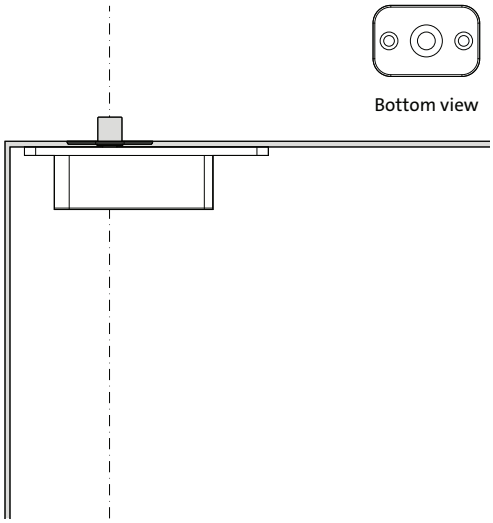
Compatible with	
Bottom pivots	System Fx 70 mm (all classes)
Ceiling plates	Receiver

Find out more about ceiling plates or Receiver.

Ceiling plates and Receiver

Our ceiling plates and Receiver pair with the top pivots. The ceiling plates can be combined with all our top pivots, except for the Receiver. The top pivot Reversed pairs best with the Receiver to mount in the door.

Ceiling plates

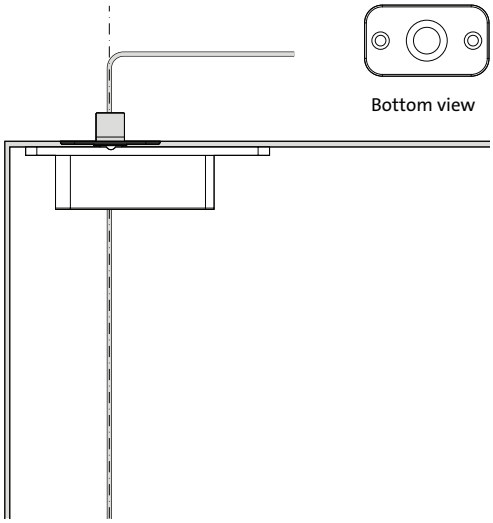


Ceiling plate Class B

60 × 40 × 20 mm

Colours	Stainless steel Black
Pin diameter	Ø10 mm

Compatible with	
Top pivots	Top pivot 70 mm Class B Top pivot 40 mm Class B



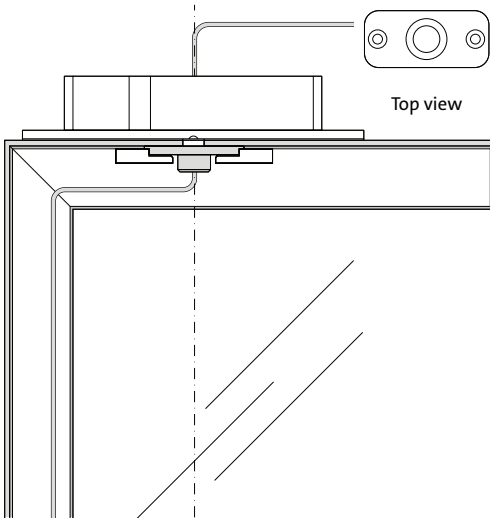
Ceiling plate Class G

70 × 40 × 23 mm

Colours	Stainless steel Black
Pin diameter	Ø15 mm

Compatible with	
Top pivots	Top pivot 70 mm Class G Top pivot 40 mm Class G

Receiver



Receiver
70 × 32 × 18 mm

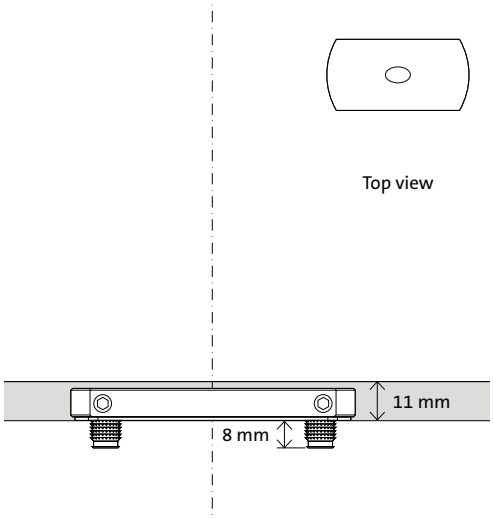
Colours	Stainless steel
Pin diameter	Ø15 mm

Compatible with	
Top pivots	Top pivot Reversed
Accessories	Adapters

Floor plates

Our floor plates support the door at the bottom. They are either surface mounted with only short pins anchoring into the floor or recessed in the sill. Their compact design makes installation a lot easier, and they combine perfectly with pre-installed underfloor heating.

Installation on the floor

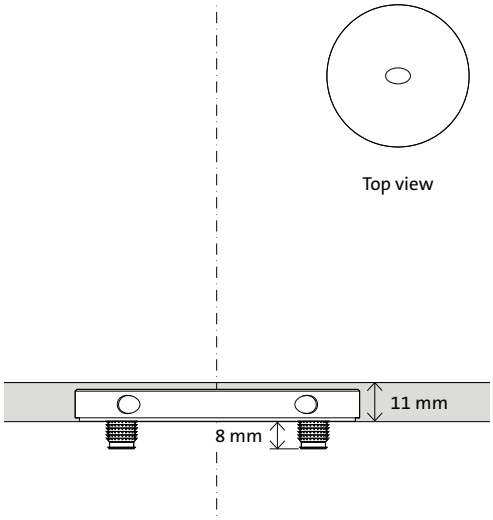


Floor plate squared

80 × 40 × 9 mm

This floor plate features radial adjustment possibilities.

Mounting pins	Two or four 8 mm pins for optimal stability between two floor types. Or two 30 mm pins for mounting on layered floor materials.
Undercut	11 mm
Colours	Stainless steel Black
Radial adjustment	Yes, 2.5° to the left and 2.5° to the right



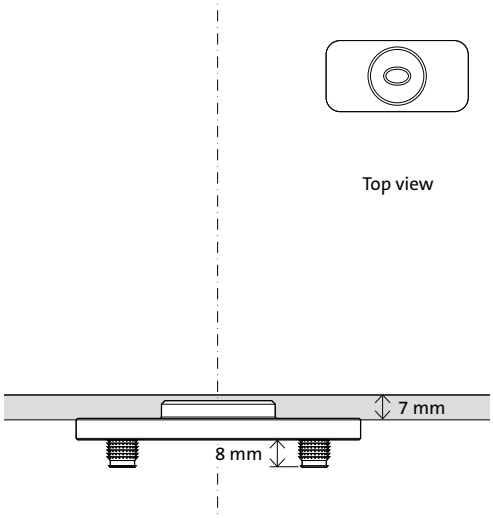
Floor plate round

Ø80 × 9 mm

Especially for aesthetic purposes, we feature the round 80 mm floor plate.

Mounting pins	Four 8 mm pins
Undercut	11 mm
Colours	Stainless steel Black
Radial adjustment	Yes, 2.5° to the left and 2.5° to the right

Sunk into the sill

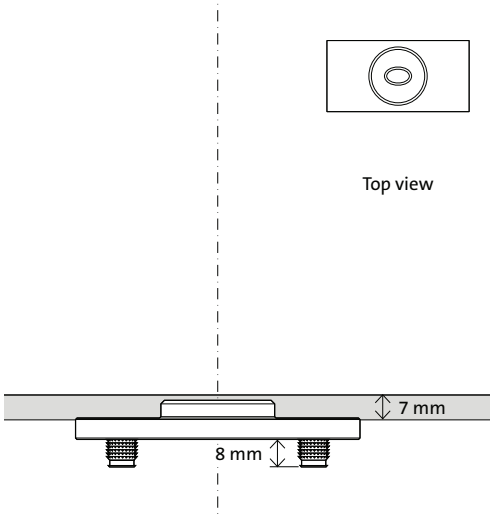


Floor plate Flush rounded

80 × 40 × 11 mm

Floor plate Flush rounded offers the possibility to recess your floorplate in the door frame. If you plan to use drop seals to prevent draught or as a seal for an exterior pivot door, a floor plate Flush is the floor plate you need.

Mounting pins	Four 8 mm pins
Undercut	7 mm
Colours	Stainless steel
Radial adjustment	No



Floor plate Flush squared

80 × 40 × 11 mm

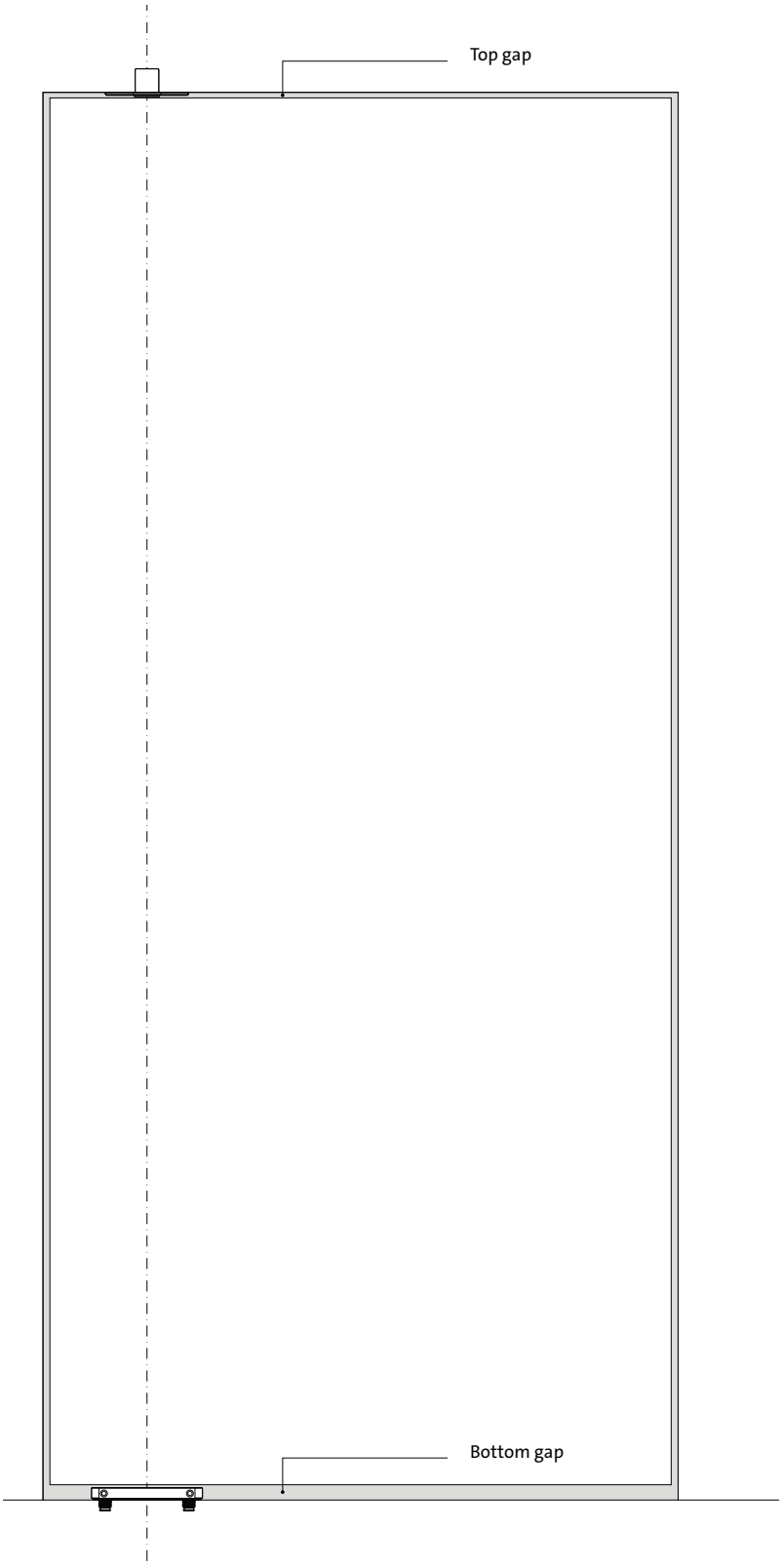
Floor plate Flush squared offers the possibility to recess your floorplate in the door frame. If you plan to use drop seals to prevent draught or as a seal for an exterior pivot door, a floor plate Flush is the floor plate you need.

Mounting pins	Four 8 mm pins
Undercut	7 mm
Colours	Stainless steel
Radial adjustment	No

Technical checklist

To make sure you have every technical specific you need, we have compiled a smart checklist.

Top and bottom gap



Top gap

The distance between ceiling and top of the door should be 4-10 mm*.

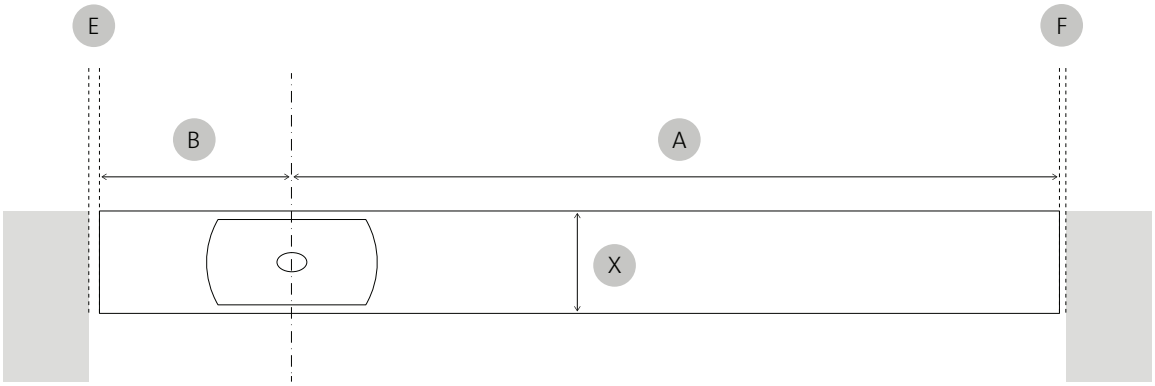
* In all situations, beware of sagging.

Bottom gap

The size of the gap between the bottom of the door and the floor depends on the floor plates that are used.

Floor plate squared	11 mm
Floor plate round	11 mm
Floor plate Flush squared	7 mm
Floor plate Flush rounded	7 mm

Side gaps



X Door thickness

B Distance of pivot point to the near edge of the door

A Distance of pivot point to the far edge of the door

E Minimum gap left

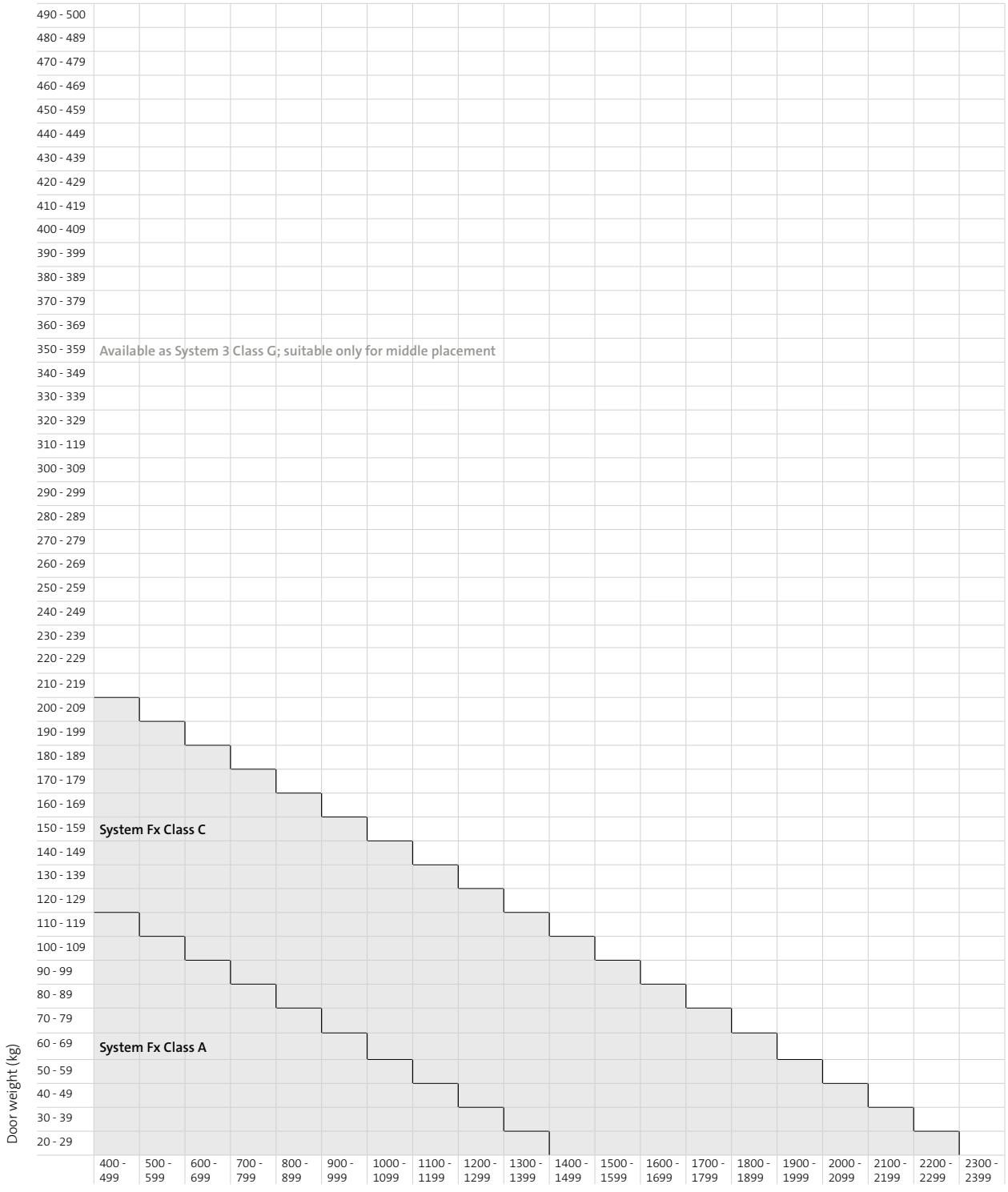
F Minimum gap right

The minimum gap at the side of the door depends on the thickness and the width of the door in relation to the position of the pivot point.

The outcome on left and right will be different when you use the System Fx for side placement. The calculation is made based on the radius of the door when turning. The smaller the radius (the pivoting side) and the thicker the door, the bigger the required gap between door and wall or frame. For middle placement, the gaps on both sides (E and F) are equal.

Calculate the required gap dimensions with our Gap Calculator: www.fritsjurgens.com/gap-calculator.

System Fx weight classes table

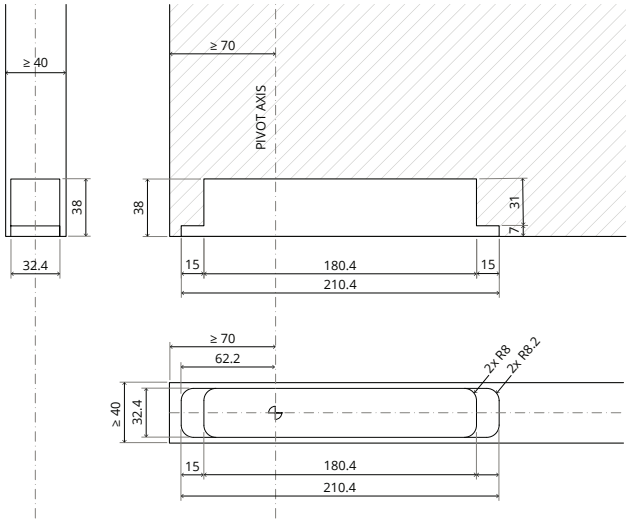


Milling and components

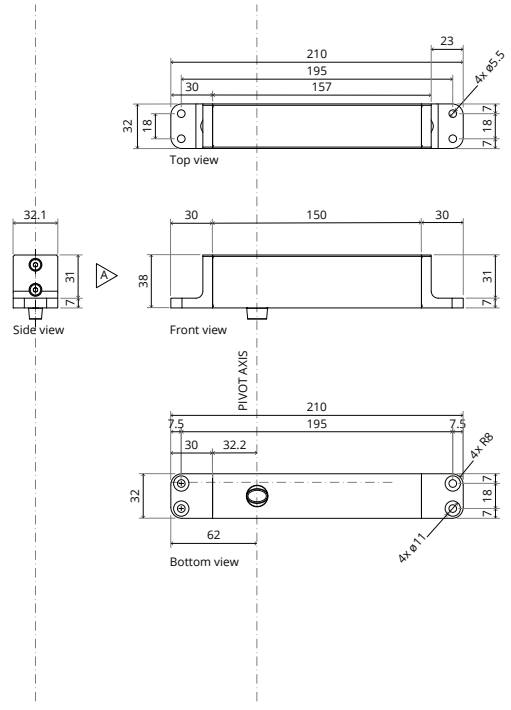
We tried to keep our milling procedure as simple as our designs. By following the step-by-step instructions, preparing a door to fit our components should be easy as one two three. Keep in mind that the space for milling is always larger than the system itself.

Milling - preparing the door

Pivot point = minimally 70 mm

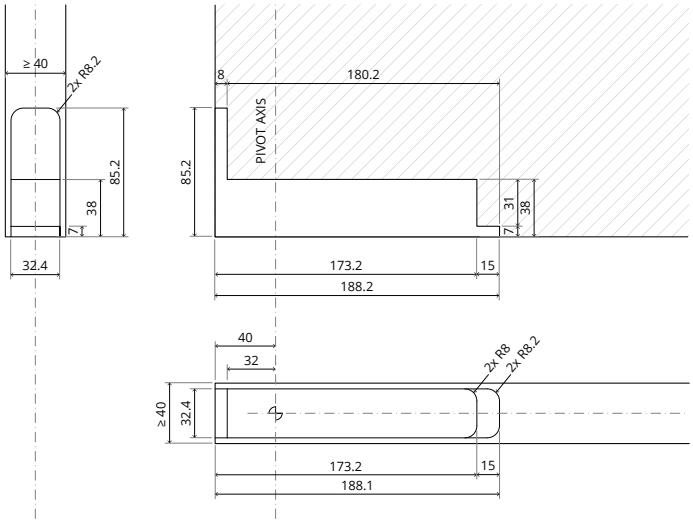


Components

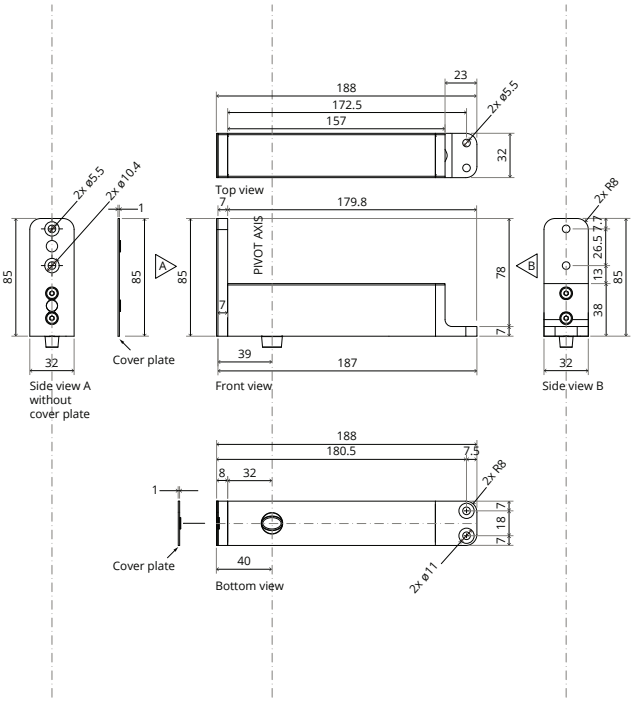


Milling - preparing the door

Pivot point = fixed 40 mm

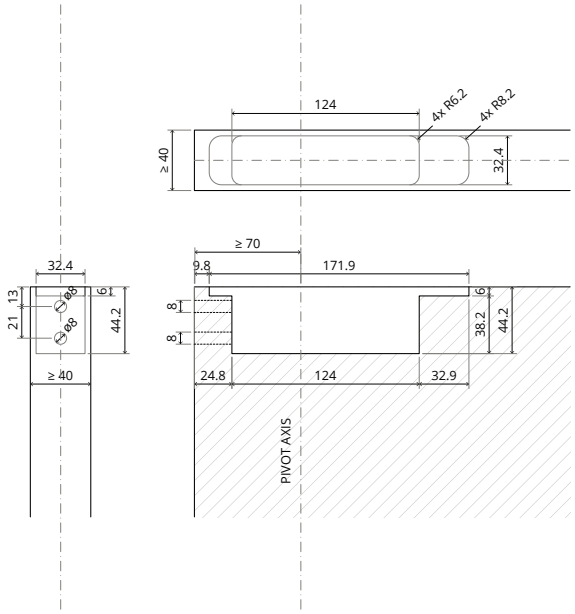


Components

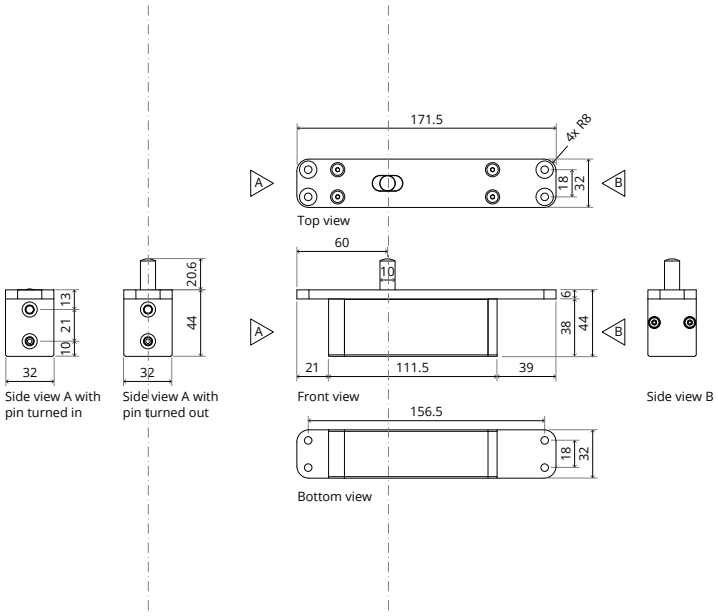


Top pivot 70 mm Class B

Milling - preparing the door

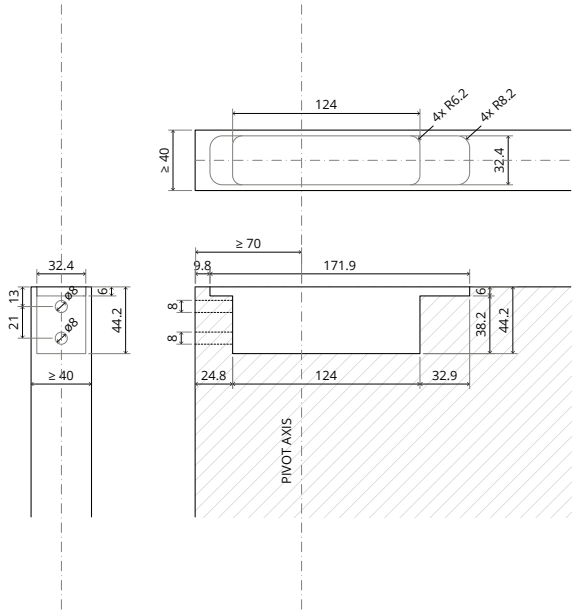


Components

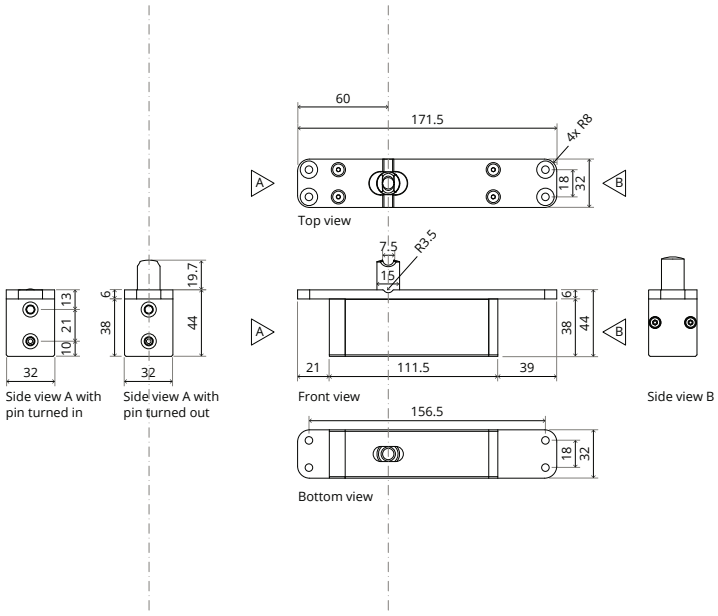


Top pivot 70 mm Class G

Milling - preparing the door

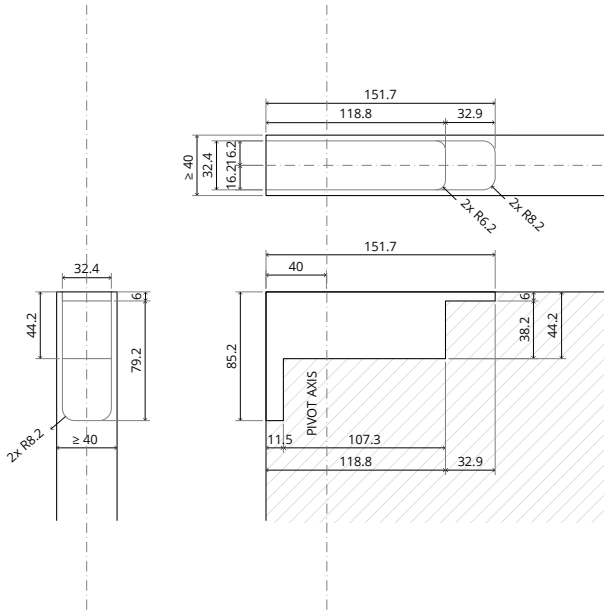


Components

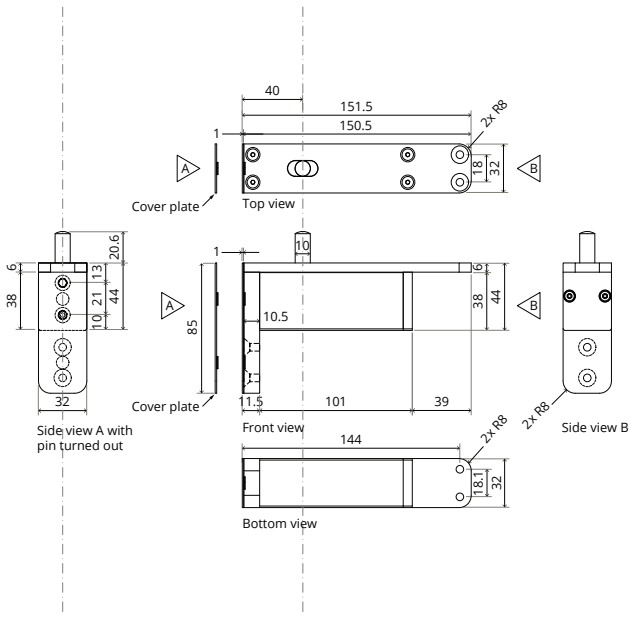


Top pivot 40 mm Class B

Milling - preparing the door

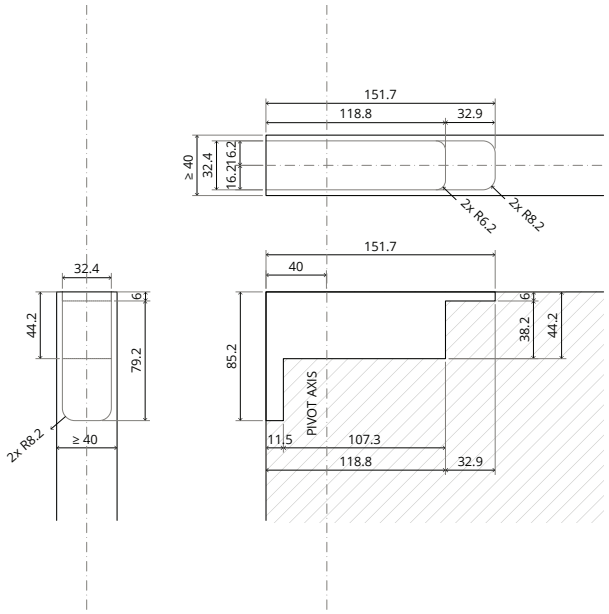


Components

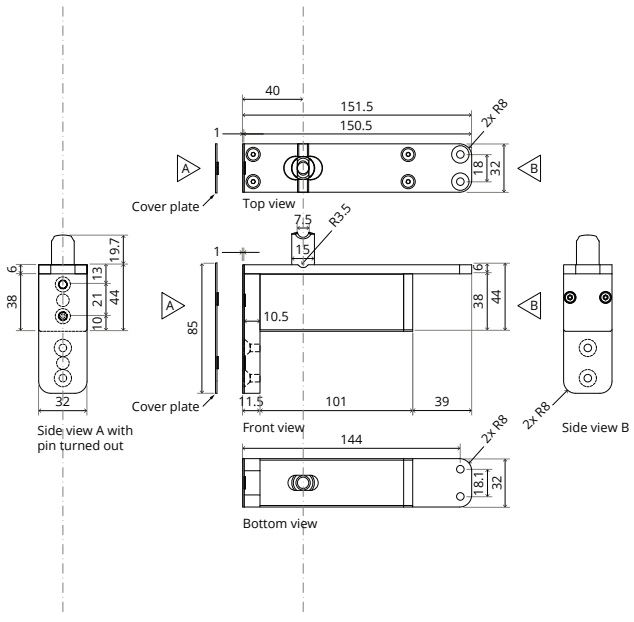


Top pivot 40 mm Class G

Milling - preparing the door

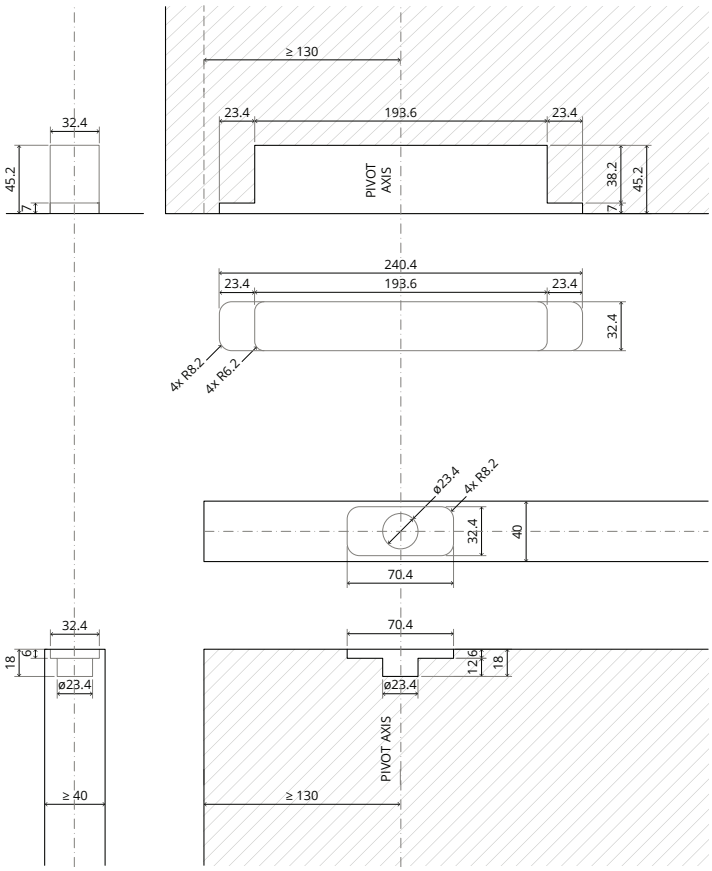


Components

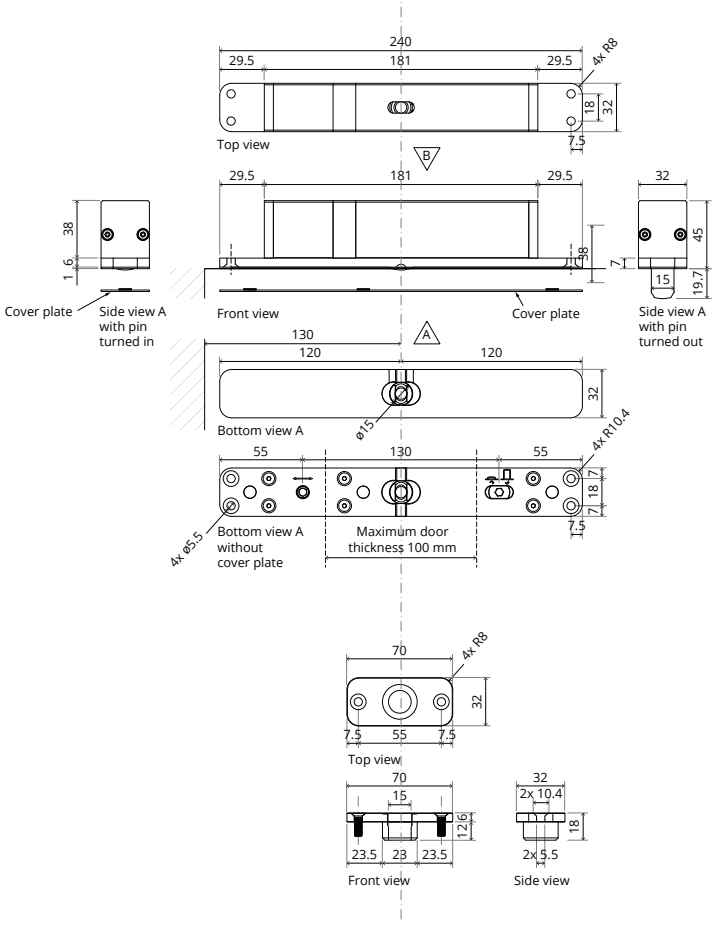


Top pivot Reversed

Milling - preparing the door and ceiling/head jamb



Components


240
29.5
181
29.5
4x R8
18
32
7.5
Top view
B
29.5
181
29.5
32
38
1.6
38
7
45
15
19.7
Cover plate
Side view A
with pin
turned in
Front view
Cover plate
Side view A
with pin
turned out
130
120
120
A
32
ø15
Bottom view A
55
130
55
4x R10.4
7
18
7
7.5
4x ø5.5
Bottom view A
without
cover plate
Maximum door
thickness 100 mm
70
4x R8
32
7.5
55
7.5
Top view
70
15
12.6
23.5
23
23.5
Front view
32
2x 10.4
18
2x 5.5
Side view

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