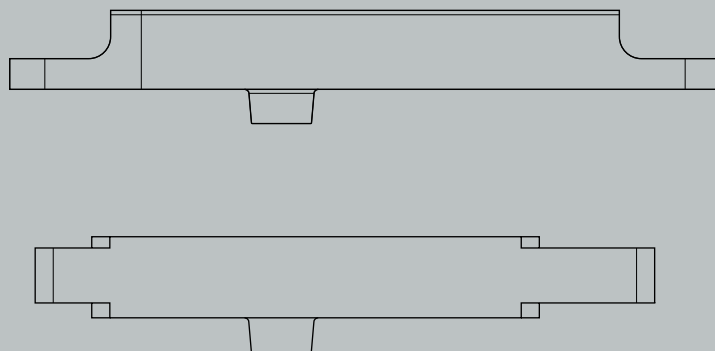


System One

System One Slim

Technical documentation

Functionalities and specifics



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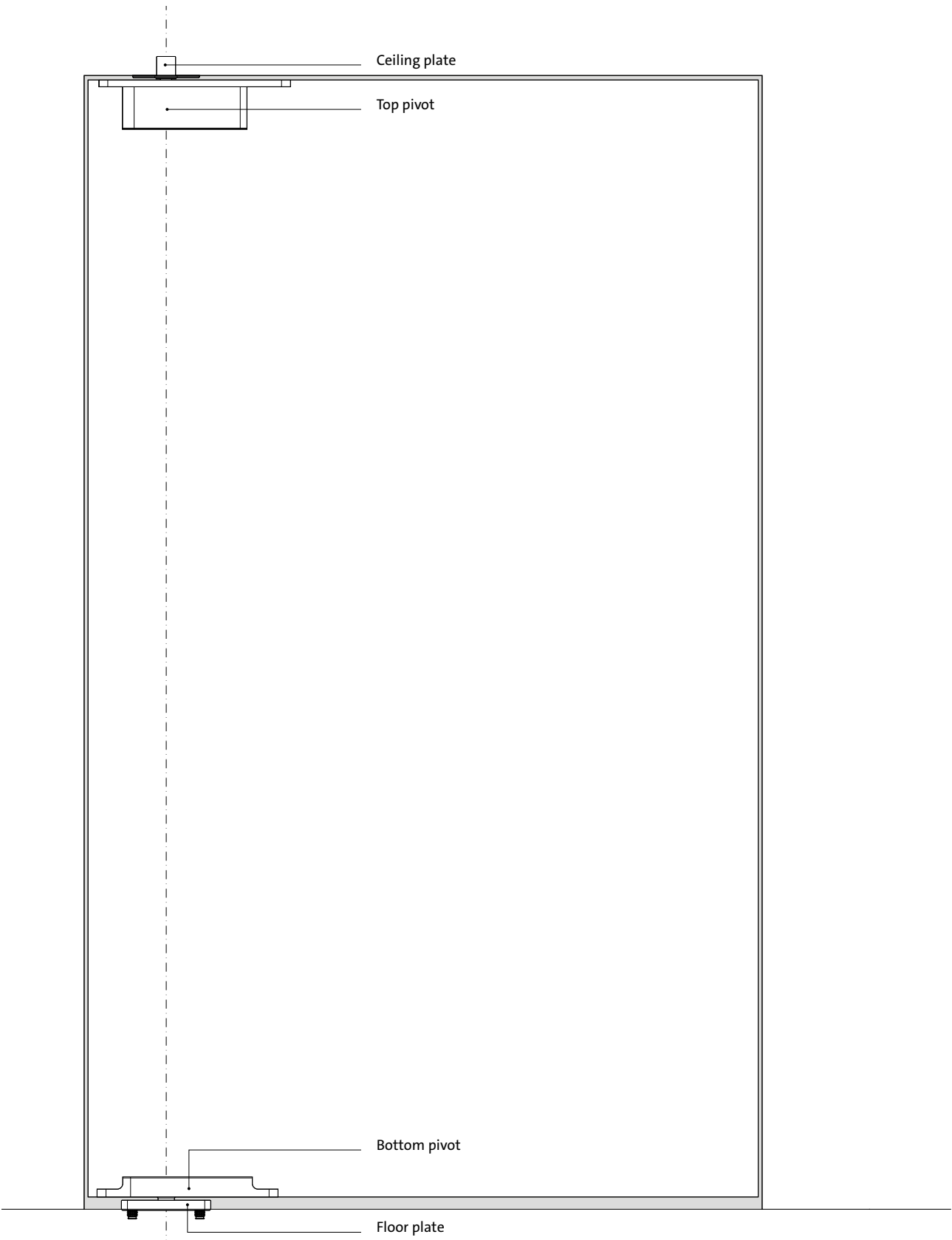
Overview

System One is a free-swing pivot system. The door swings freely and is operated by hand, without self-closing or hold positions.

The range consists of two versions. System One suits a broad range of door types and materials, not only steel or aluminium profiles. System One Slim is made exclusively for minimal profile doors in aluminium and steel, with ProfileFit as the matching installation principle.

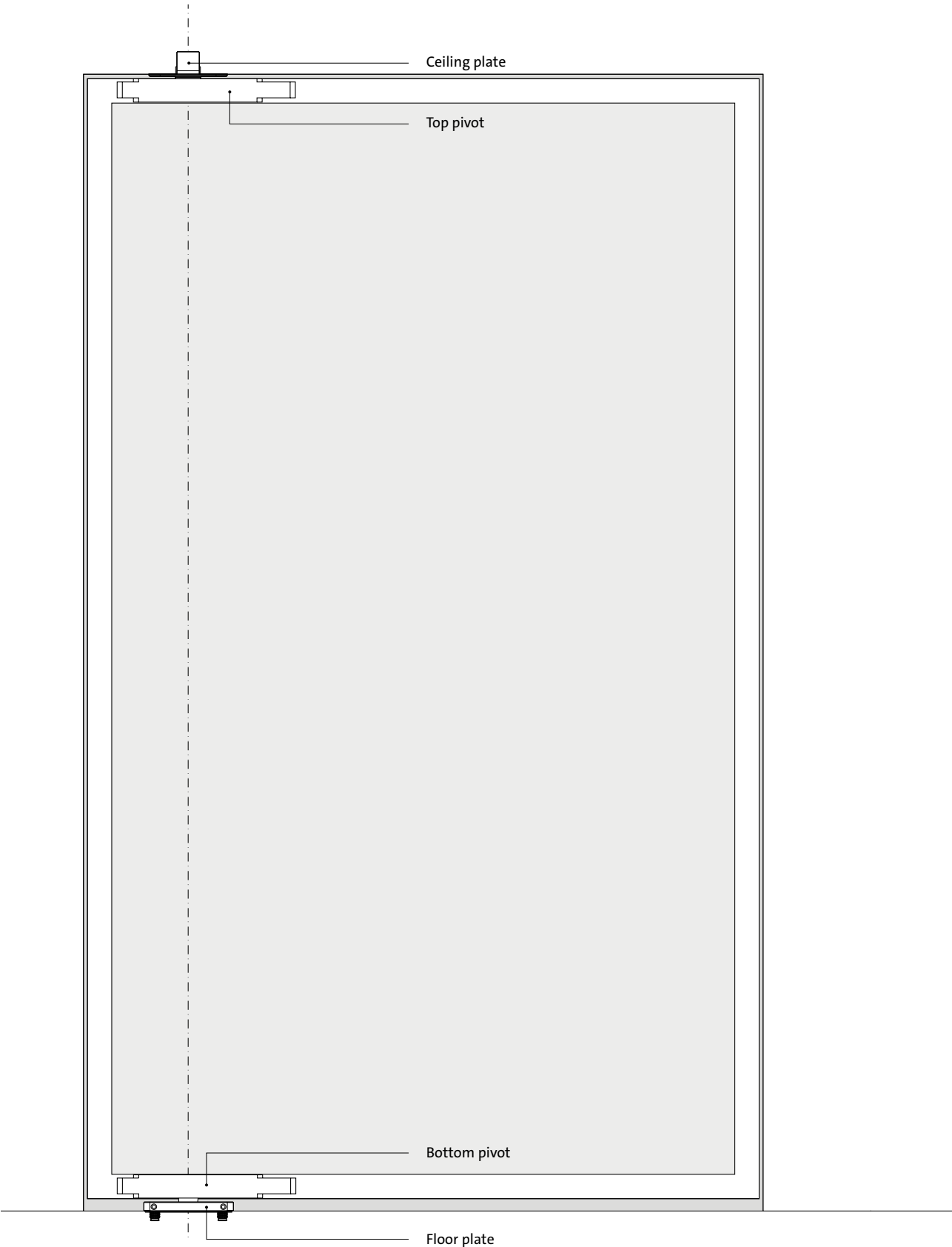
System One Components

Our systems always consist of the following components:



System One Slim Components

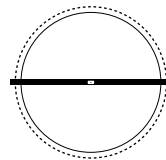
Our systems always consist of the following components:



Functions

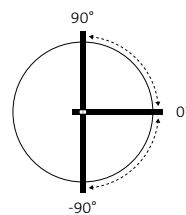
Rotation	Revolving: 360° Double-acting: 180° Single-acting: 90°
Hold positions	No
Free swing	Yes
Self-closing	No
Door weight	Class G: up to 500 kg

Rotation



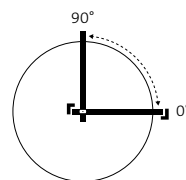
Revolving

This FritsJurgens pivot system enables a door to revolve 360°.



Double-acting

Double-acting means that the pivot door can be opened towards both sides.

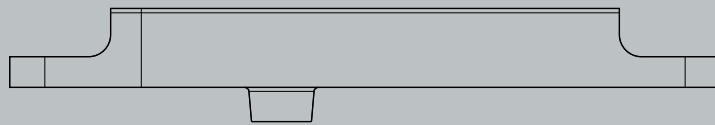


Single-acting

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.

System One

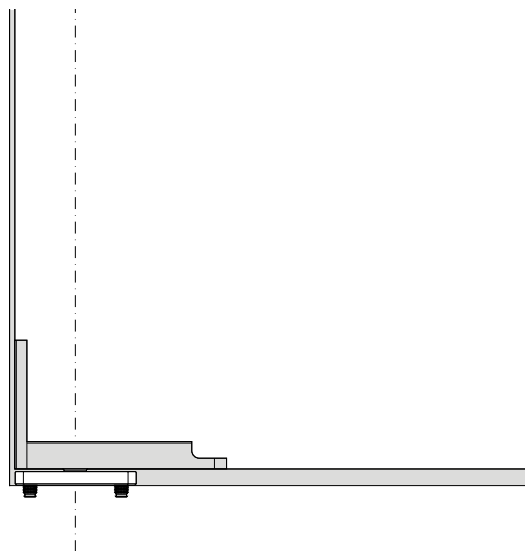
Free-swing pivot system for a broad range of doors



Bottom pivots

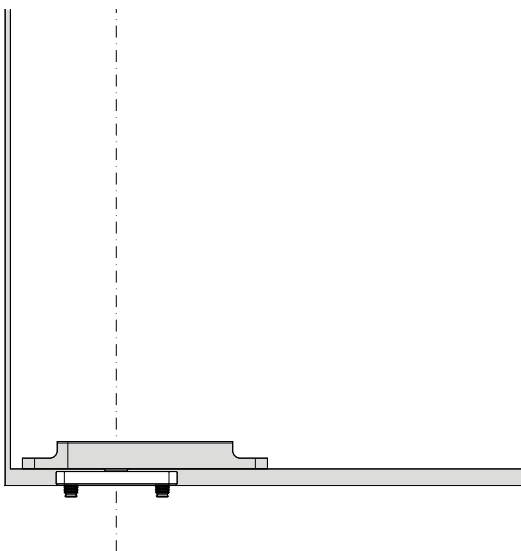
It all hinges on the bottom pivot. Our bottom pivots are easily applicable to the side as well as to the middle of the door.

Variants



Bottom pivot – 40 mm
 Available as Class G

Pivot position	Fixed at 40 mm
Dimensions	140 × 32 × 85 mm
Operating principle	Mechanical
Material	Stainless steel and anodised aluminium
Cover plate	Stainless steel Black
Compatible with	
Top pivots	Top pivot 40 mm Class G



Bottom pivot – 70 mm
 Available as Class G

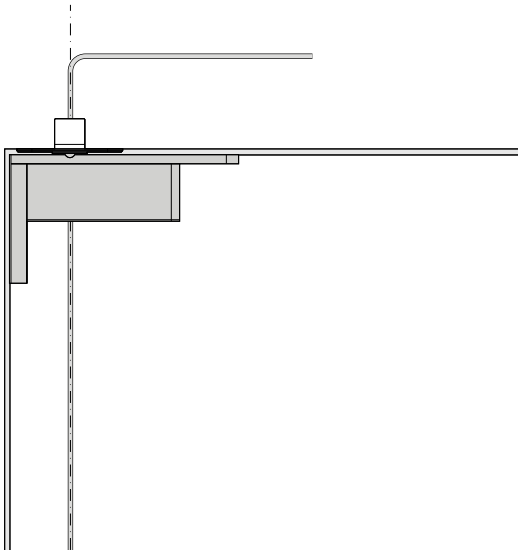
Pivot position	From 70 mm to middle
Dimensions	162 × 32 × 18 mm
Operating principle	Mechanical
Material	Stainless steel and anodised aluminium
Compatible with	
Top pivots	Top pivot 70 mm Class G

Find out more about [top pivots](#) or [floor plates](#).

Top pivots

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

Variants

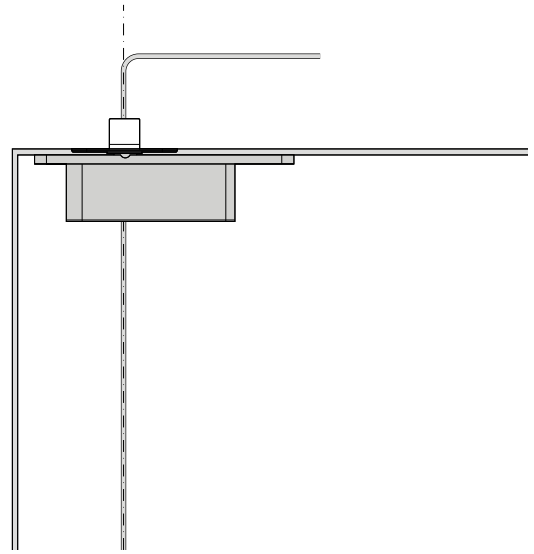


Top pivot – 40 mm Class G

Pivot position	Fixed at 40 mm
Cable entry	Ø7.5 mm
Pin diameter	Ø15 mm
Dimensions	151.5 × 32 × 85 mm
Material	Stainless steel and anodised aluminium
Cover plate	● Stainless steel ● Black

Compatible with

Bottom pivots	System One – 40 mm
Ceiling plates	Ceiling plate – Class G



Top pivot – 70 mm Class G

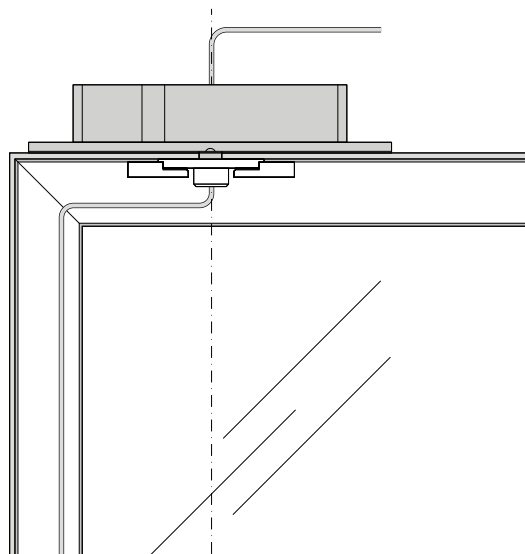
Pivot position	From 70 mm to middle
Cable entry	Ø7.5 mm
Pin diameter	Ø15 mm
Dimensions	171.5 × 32 × 44 mm
Material	Stainless steel and anodised aluminium

Compatible with

Bottom pivots	System One – 70 mm
Ceiling plates	Ceiling plate – Class G

Find out more about [ceiling plates](#).

Installation in the head jamb



Top pivot – Reversed

Class G

Pivot position	From 130 mm to middle
Cable entry	Ø7.5 mm
Pin diameter	Ø15 mm
Dimensions	240 × 32 × 45 mm
Material	Stainless steel and anodised aluminium
Cover plate	Stainless steel Black White

Compatible with

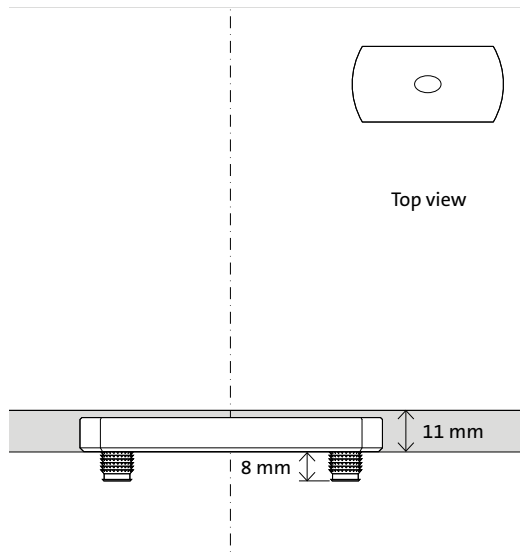
Bottom pivots	System One – 70 mm
Ceiling plates	Receiver

Find out more about [ceiling plates](#) or [Receiver](#).

Floor plates

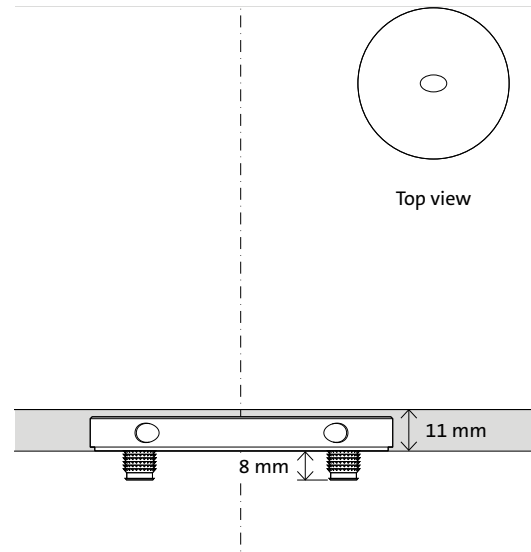
Our floor plates support the door at the bottom. They are either surface mounted with only short pins anchoring into the floor or recessed in the sill. Their compact design makes installation a lot easier, and they combine perfectly with pre-installed underfloor heating.

Installation on the floor



Floor plate squared – Non-adjustable

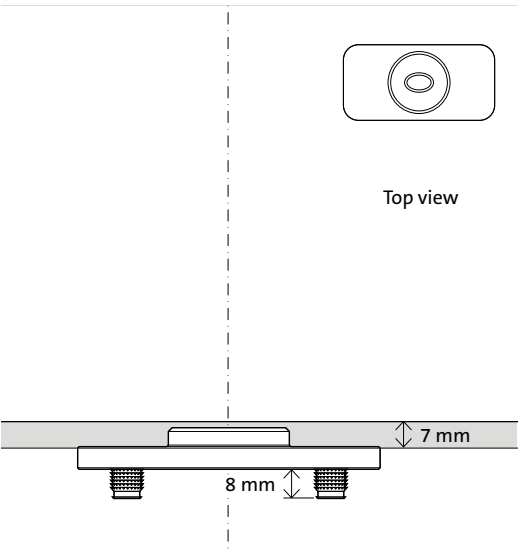
Mounting pins	Two or four 8 mm pins for optimal stability between two floor types. Or two 30 mm pins for mounting on layered floor materials.
Undercut	11 mm
Adjustability	No
Dimensions	80 × 40 × 9 mm
Material	Stainless steel
Available colours	● Stainless steel



Floor plate round – Radially adjustable

Mounting pins	Four 8 mm pins
Undercut	11 mm
Adjustability	Radial: +2.5° to -2.5°
Dimensions	Ø80 × 9 mm
Material	Stainless steel
Available colours	● Stainless steel ● Black

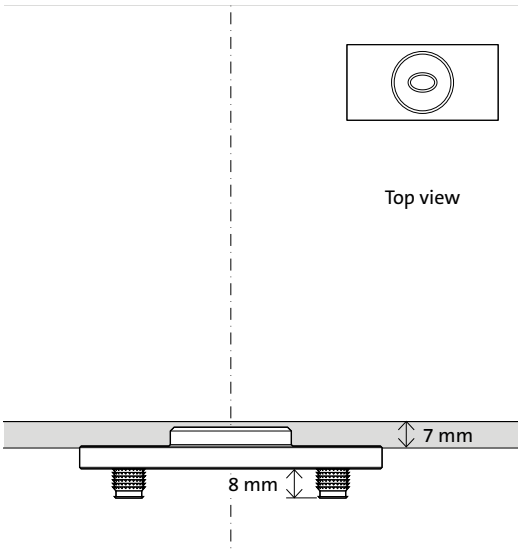
Sunk into the sill



Floor plate Flush squared – Non-adjustable

Floor plate Flush squared offers the possibility to recess your floor plate 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
Adjustability	No
Dimensions	80 × 40 × 11 mm
Material	Stainless steel
Available colours	● Stainless steel



Floor plate Flush rounded – Non-adjustable

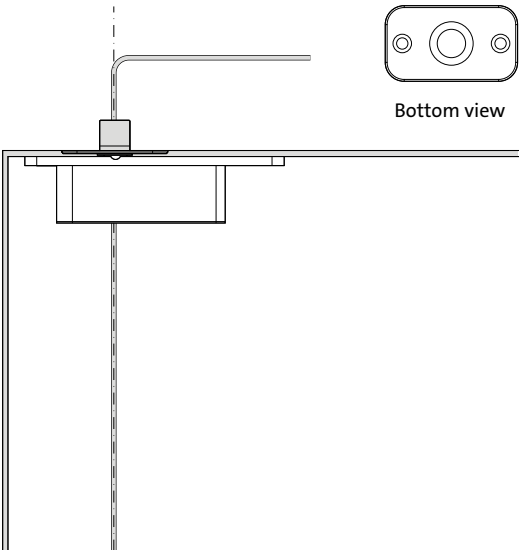
Floor plate Flush rounded offers the possibility to recess your floor plate in the door frame. If you plan to use drop seals to prevent draught or as a seal for an exterior pivot door, a floor plate Flush is the floor plate you need.

Mounting pins	Four 8 mm pins
Undercut	7 mm
Adjustability	No
Dimensions	80 × 40 × 11 mm
Material	Stainless steel
Available colours	● Stainless steel

Ceiling plate 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 top pivot Reversed. The top pivot Reversed pairs best with the Receiver to mount in the door.

Ceiling plate



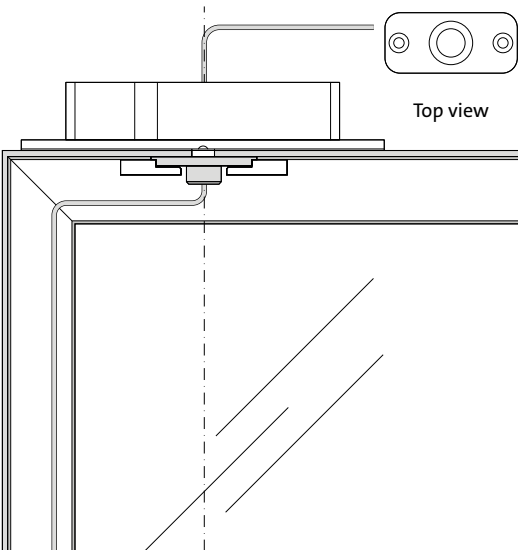
Ceiling plate Class G

Pin diameter	Ø15 mm
Dimensions	70 × 40 × 23 mm
Material	Stainless steel
Available colours	☐ Stainless steel ☐ Black

Compatible with

Top pivots	Top pivot – 40 mm Class G Top pivot – 70 mm Class G
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Receiver



Receiver

Pin diameter	Ø15 mm
Dimensions	70 × 32 × 18 mm
Material	Stainless steel
Available colours	☐ Stainless steel

Compatible with

Top pivots	Top pivot – Reversed
Accessories	Adapters

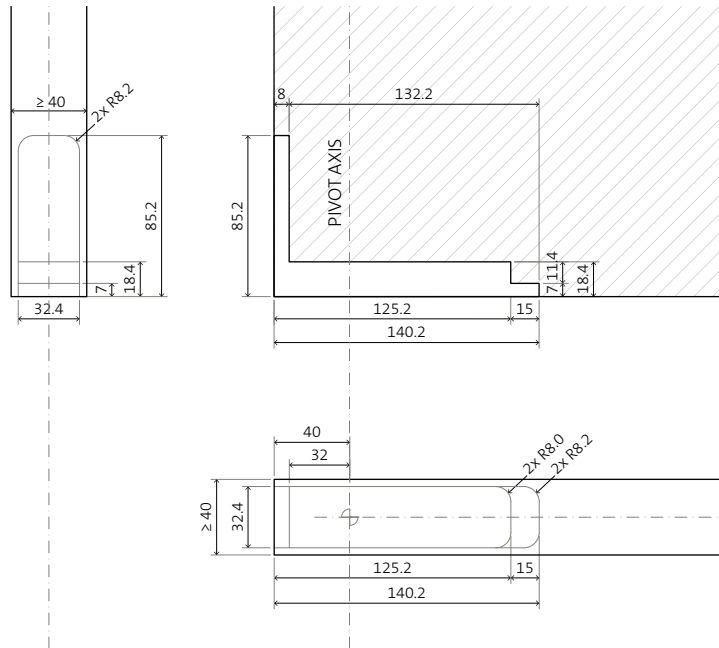
Milling and components

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.

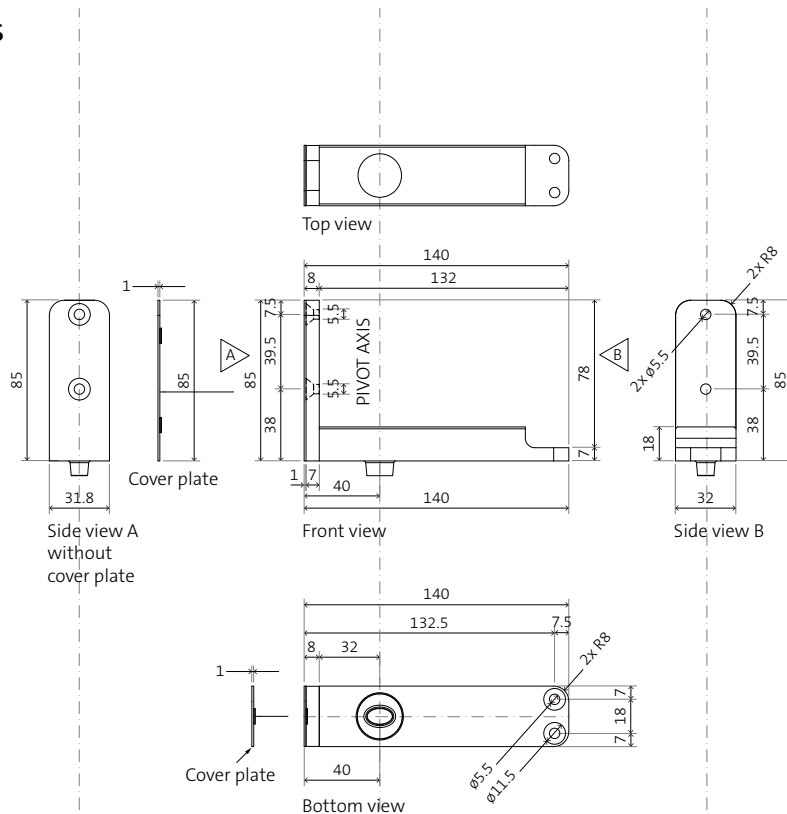
System One – 40 mm

Milling – preparing the door

Pivot point = fixed 40 mm



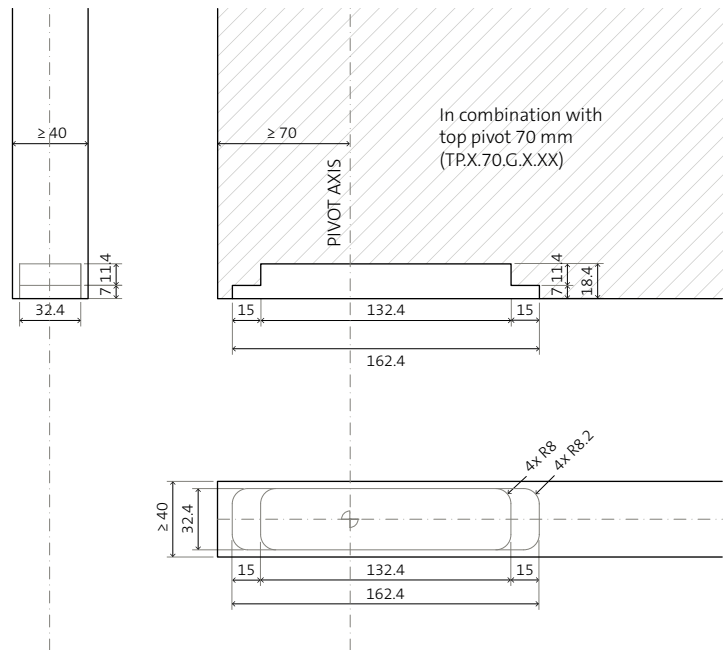
Components



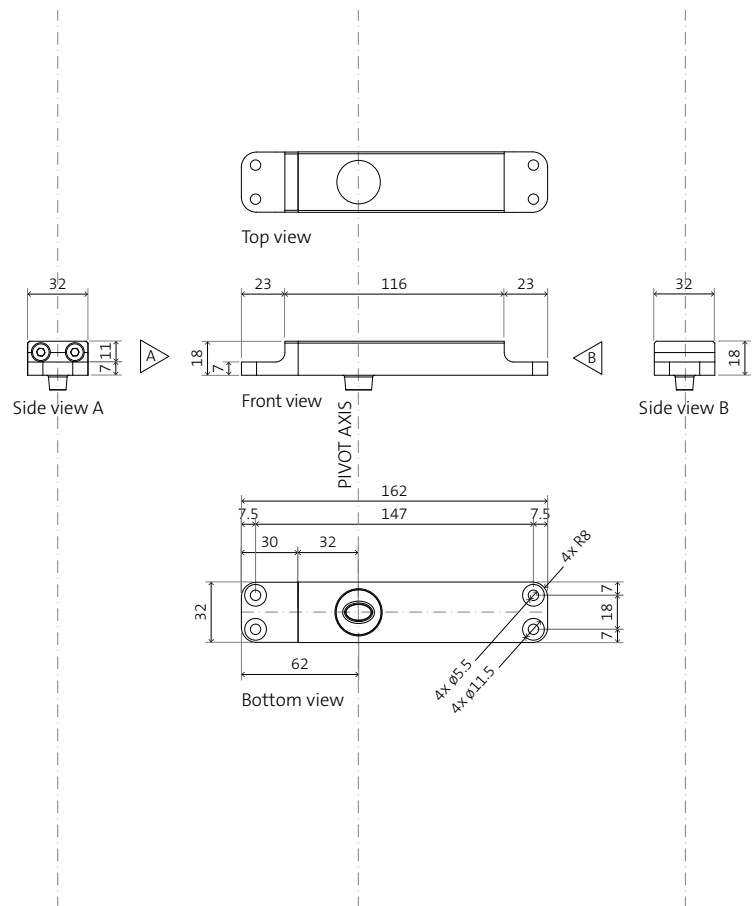
System One – 70 mm

Milling – preparing the door

Pivot point = minimally 70 mm

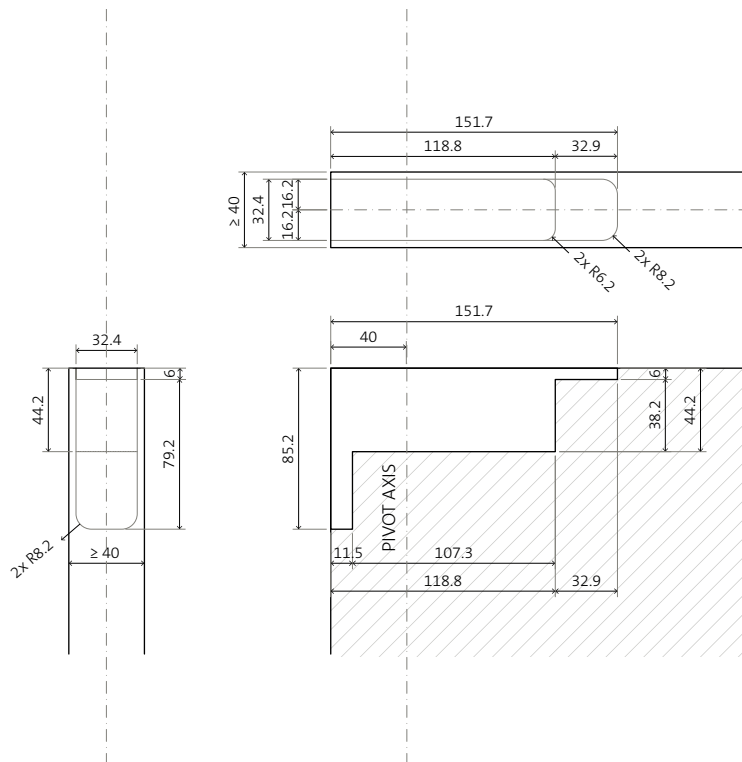


Components

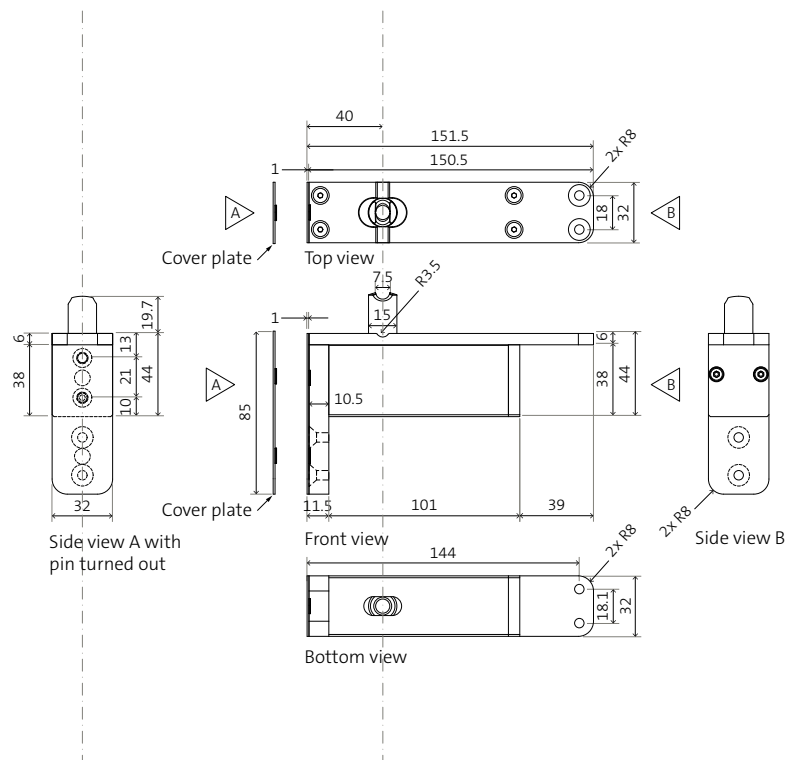


Top pivot – 40 mm Class G

Milling – preparing the door

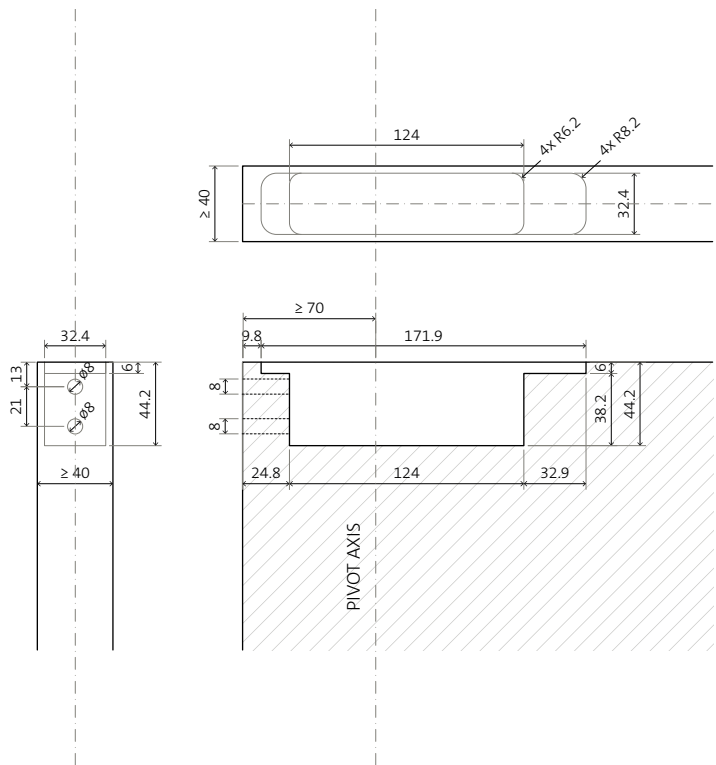


Components

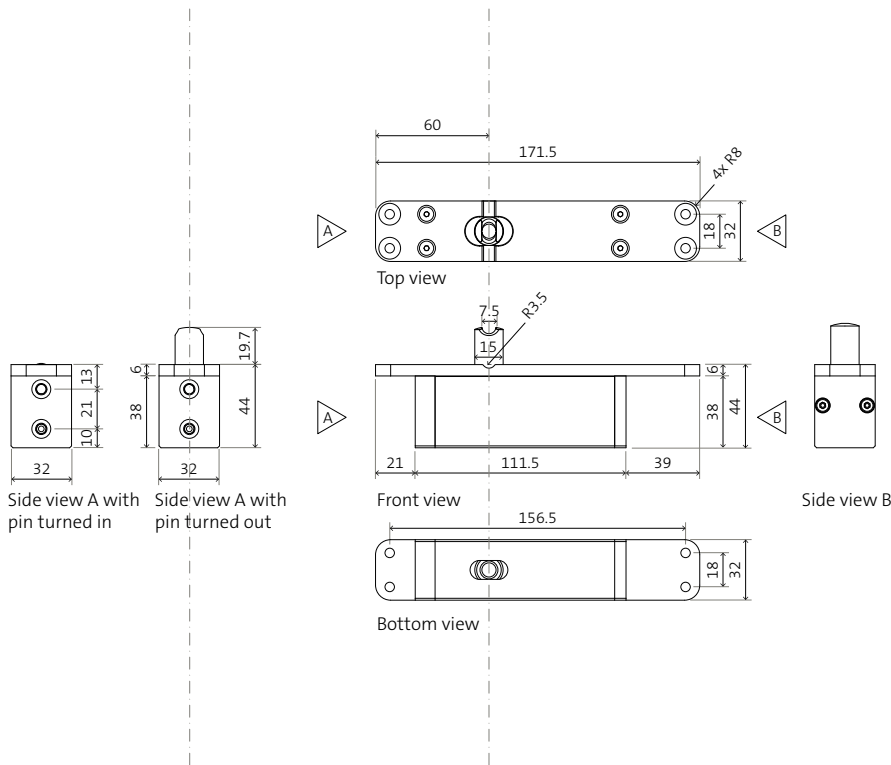


Top pivot – 70 mm Class G

Milling – preparing the door

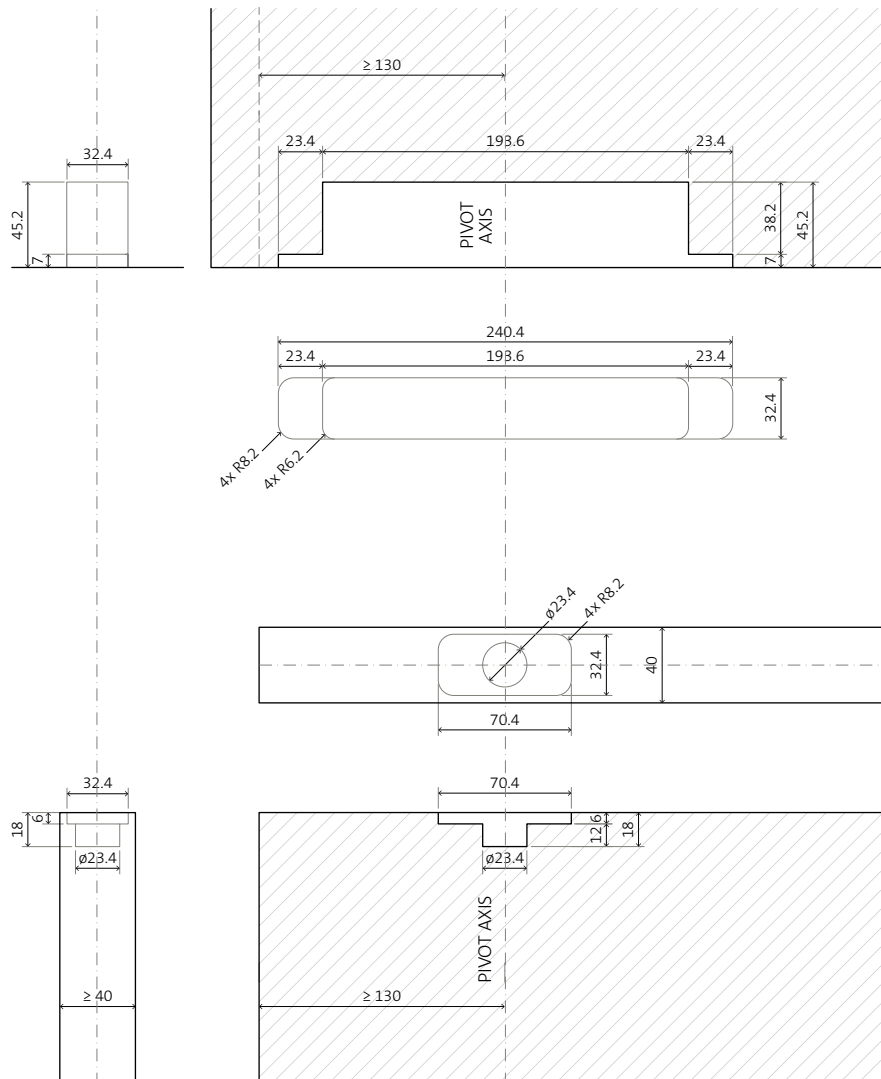


Components

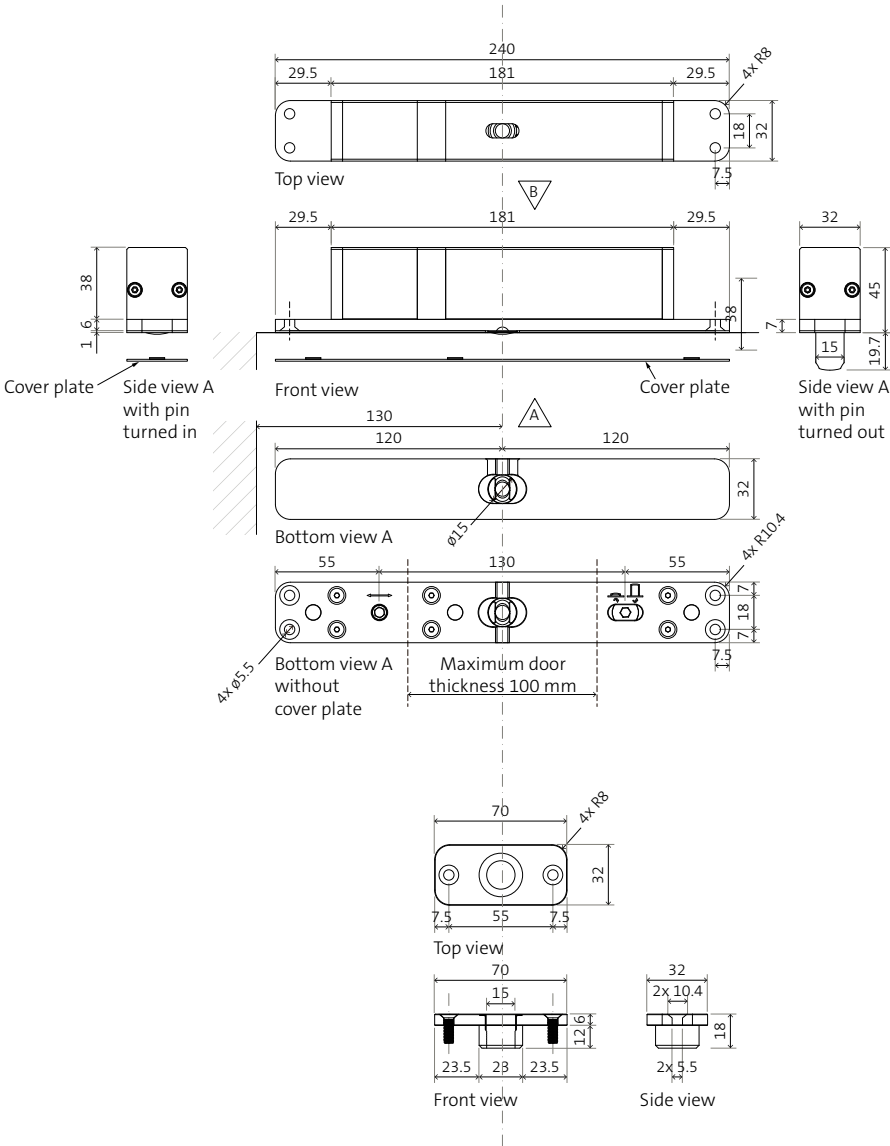


Top pivot – Reversed

Milling – preparing the door and ceiling/head jamb



Components



System One Slim

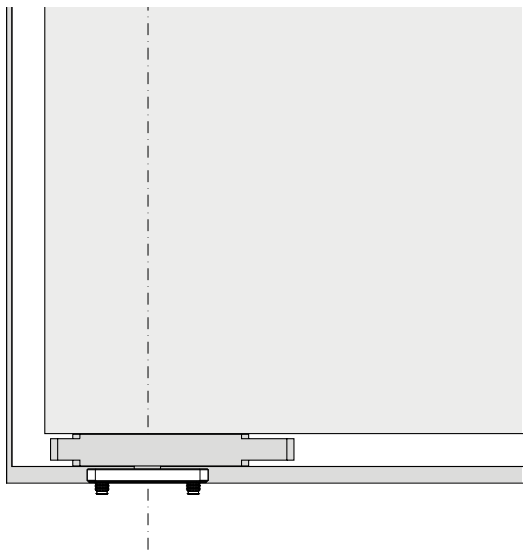
Slim pivot system for minimal profile doors



Bottom pivot

It all hinges on the bottom pivot. System One Slim is the bottom pivot for minimal profile doors, mounted with ProfileFit.

Variants



System One Slim Class C

Weight capacity	Up to 209 kg
Pivot position	From 70 mm to middle
Dimensions	137 × 32 × 18 mm
Profile	Minimally 40 × 20 mm with a profile thickness of 2 mm
Operating principle	Mechanical
Material	Stainless steel and anodised aluminum

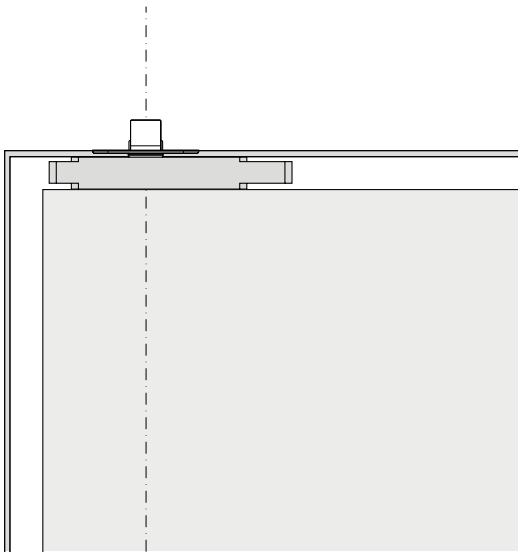
Compatible with

Top pivot	Top pivot Slim
Floor plate	Floor plate squared

Top pivot

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

Variants



Top pivot Slim

Weight capacity	Up to 209 kg
Pivot position	From 70 mm to middle
Cable entry	–
Pin diameter	Ø15 mm
Pin length	19.5 mm (telescopic)
Dimensions	137 × 32 × 18 mm
Profile	Minimally 40 × 20 mm with a profile thickness of 2 mm
Operating principle	Mechanical
Material	Stainless steel and anodised aluminium

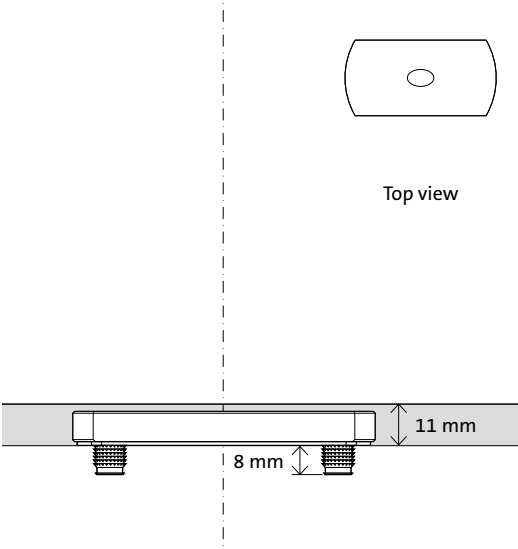
Compatible with

Bottom pivot	System One Slim
Ceiling plate	Ceiling plate – Class G

Floor plate

The floor plate supports the door at the bottom.
Its compact design makes installation easier.

Installation on the floor



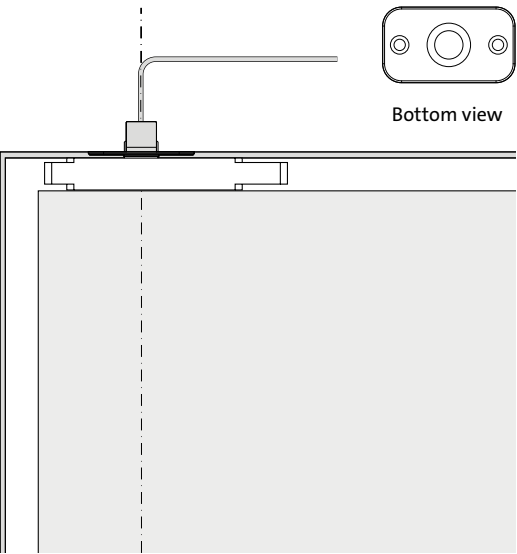
Floor plate squared – Non-adjustable

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
Adjustability	No
Dimensions	80 × 40 × 9 mm
Material	Stainless steel
Available colours	Stainless steel Black

Ceiling plate

The ceiling plate pairs with the top pivot in the ceiling.

Ceiling plate



Ceiling plate

Class G

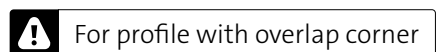
Pin diameter	Ø15 mm
Dimensions	70 × 40 × 23 mm
Material	Stainless steel
Available colours	Stainless steel Black

Compatible with

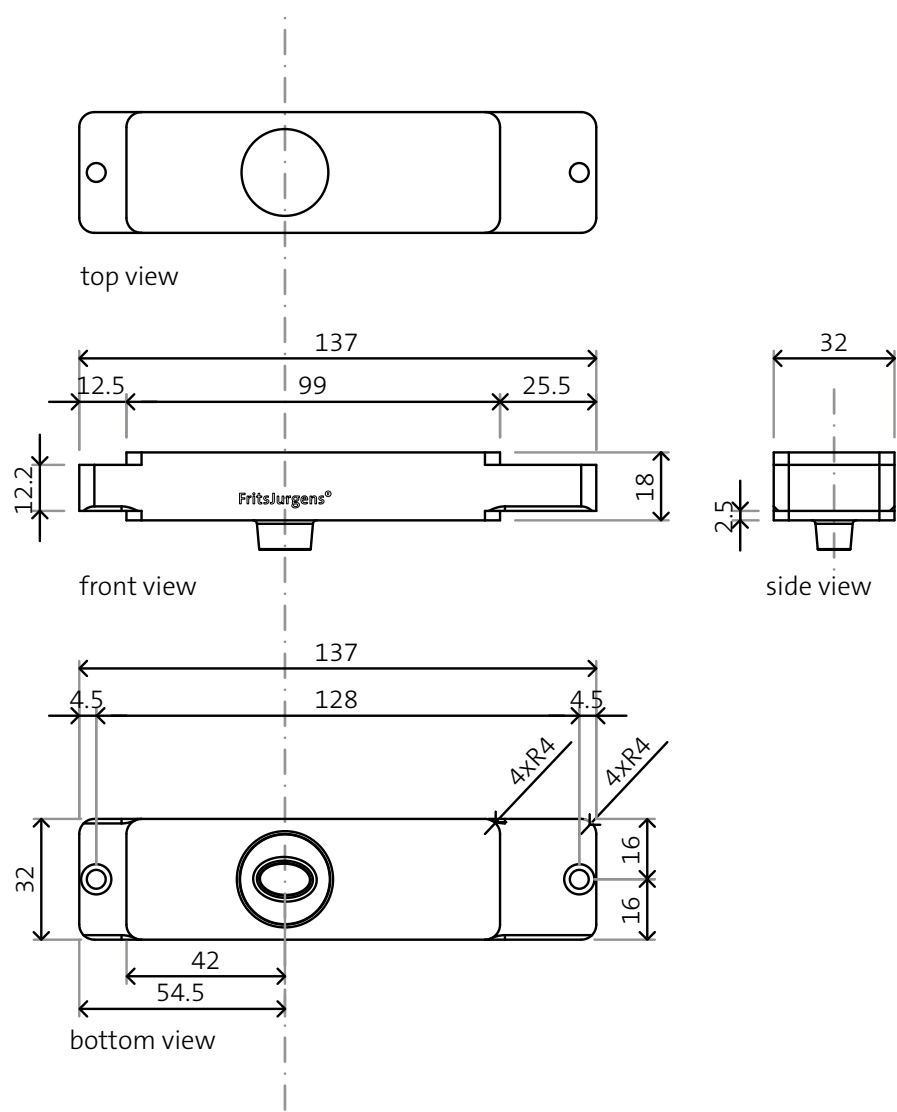
Top pivots	Top pivot Slim
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Profile preparation

Preparing the profile to fit System One Slim.

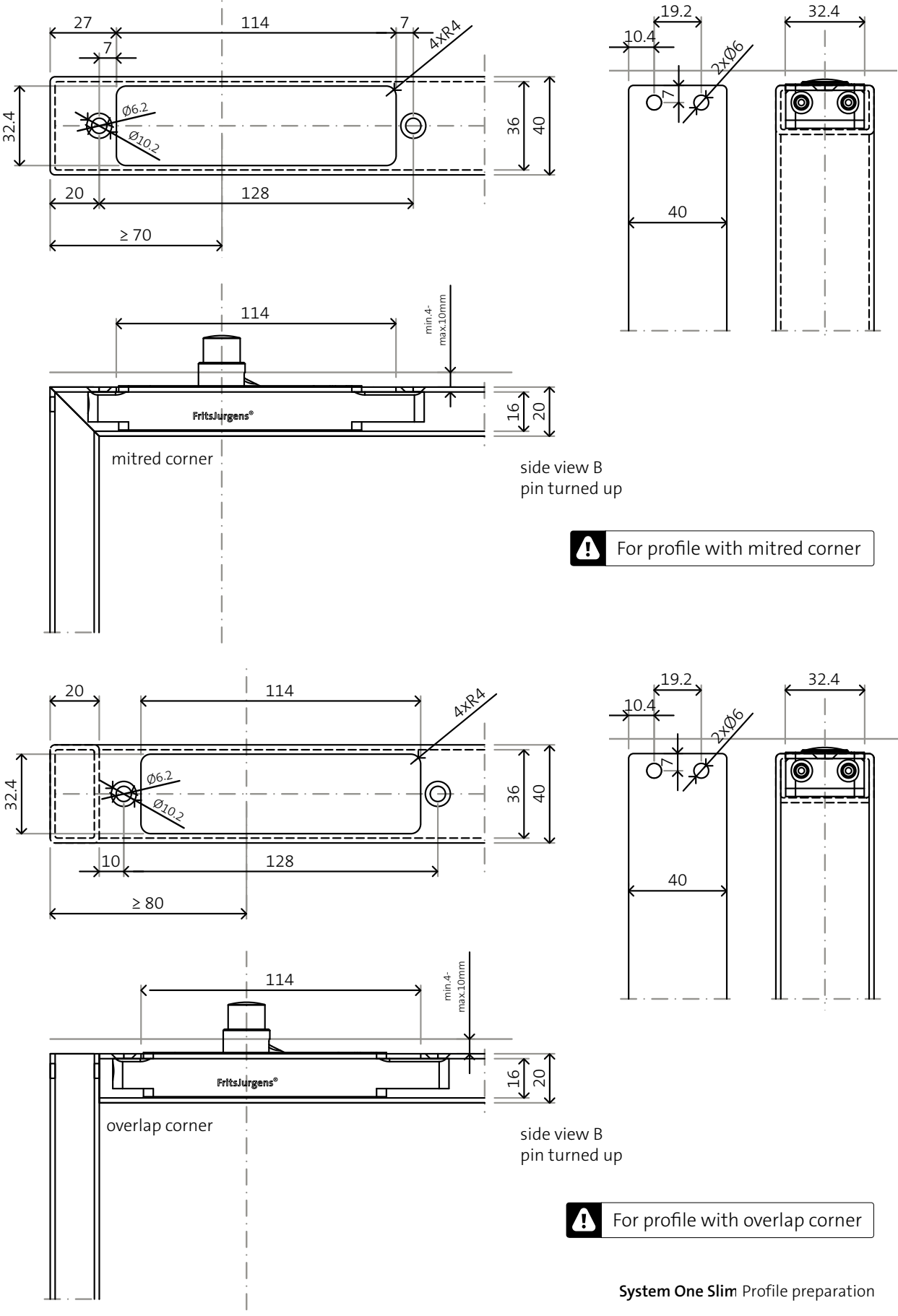


Components

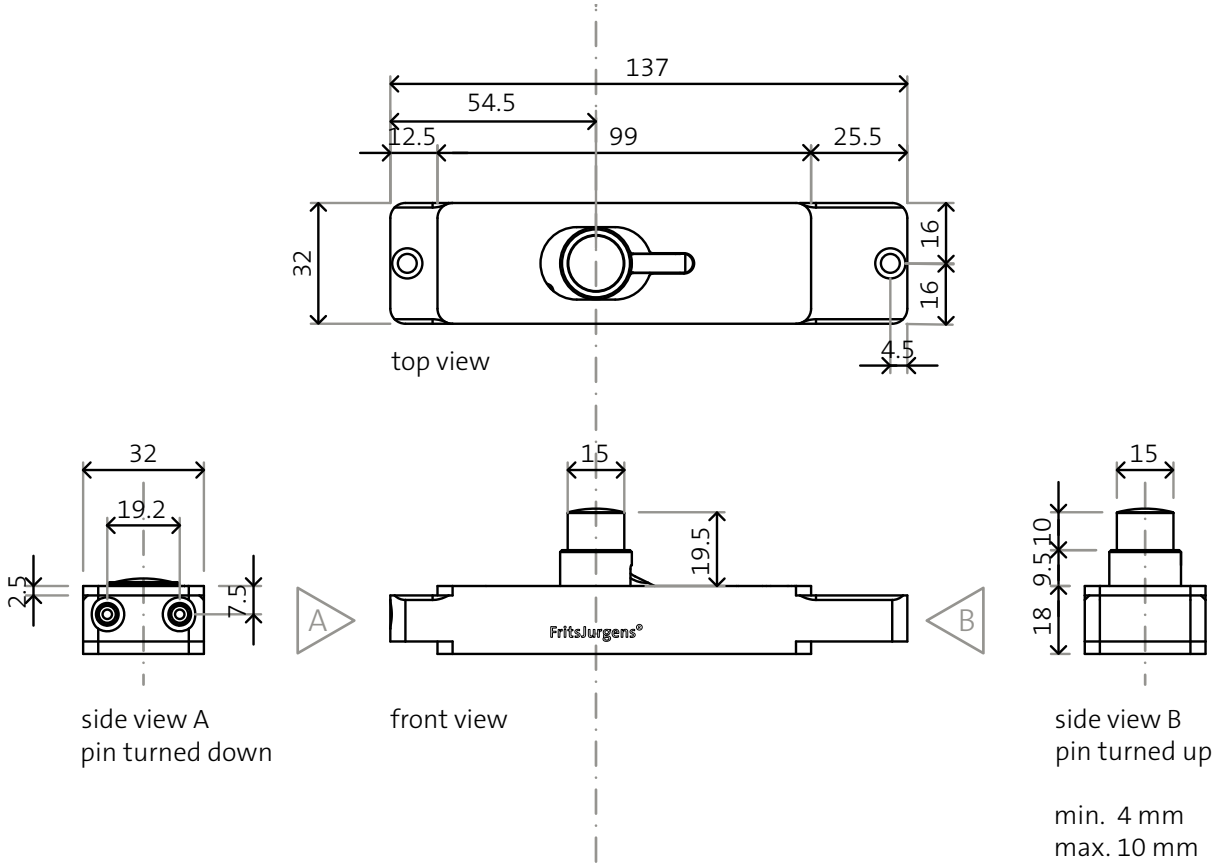


Top pivot Slim

Profile preparation

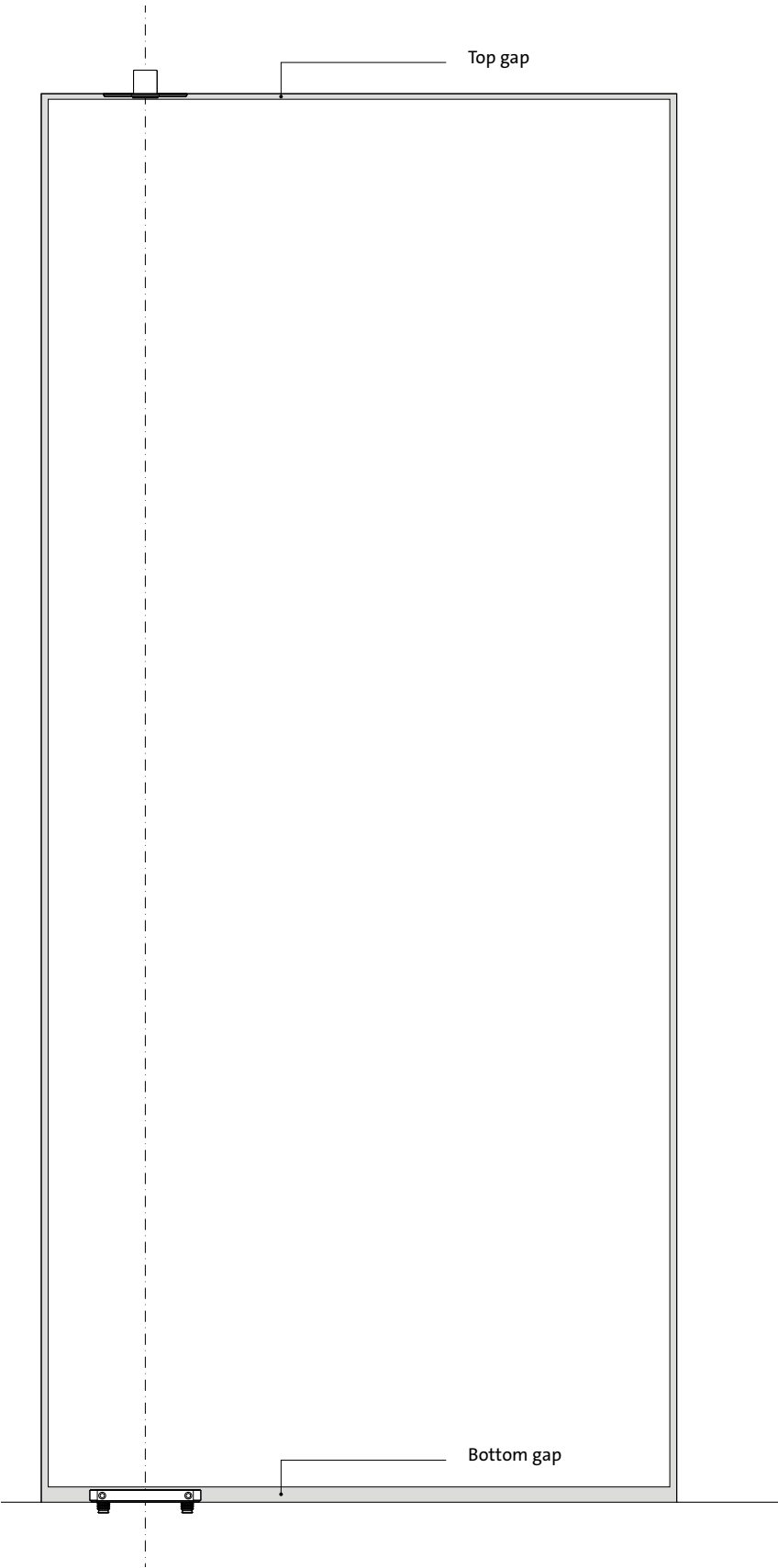


Components



Technical checklist

Top and bottom gap



Top gap

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

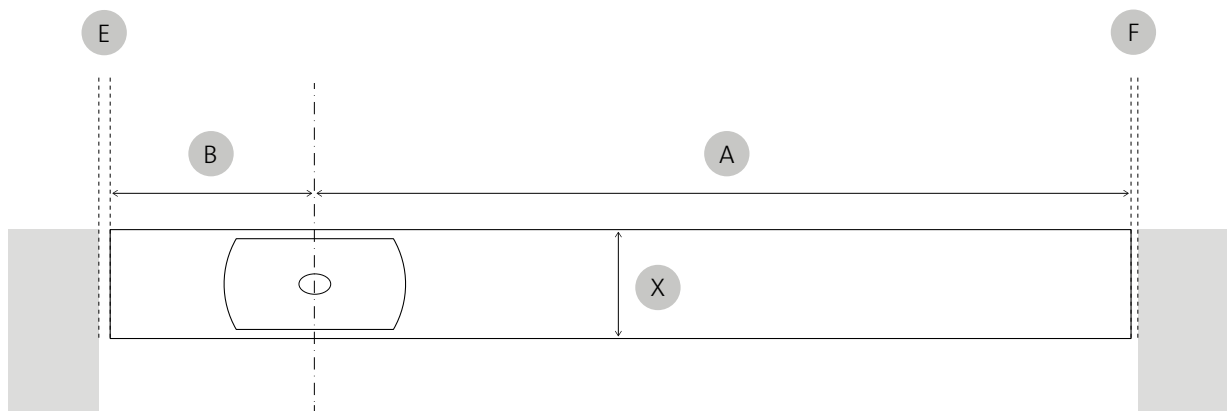
* In all situations, beware of sagging.

Bottom gap

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

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

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

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