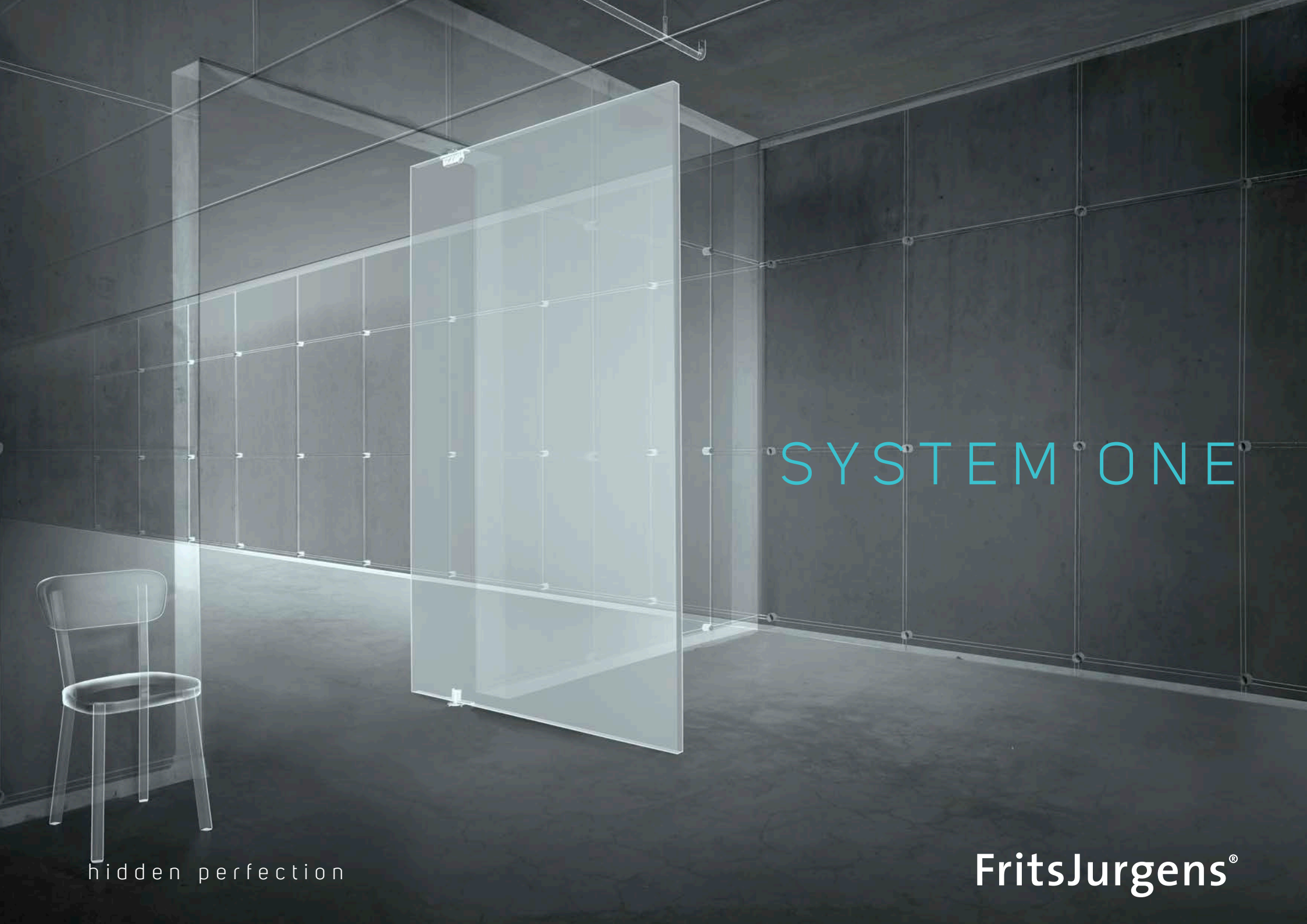
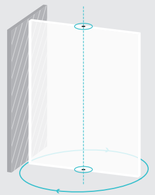
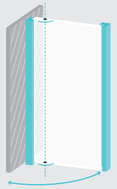

SYSTEM ONE
hidden perfection
FritsJurgens®

SYSTEM ONE APPLICATIONS

System One is the perfect solution for 360° rotating doors and in combination with door frames:





Choose the pivot door system that meets all your needs. Please see our complete line of products on page 10 and 11.

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WHERE TO BUY

Please visit fritsjurgens.com to find the contact details of partners and dealers in your area.





HIDDEN PERFECTION

SYSTEM ONE

A pivot door is a symbol of hidden perfection. No visible frame hinges, but an invisible vertical axis which allows free movement of the door panel.

FritsJurgens® pivot door systems are unique because the pivot technology is completely integrated into the door. System One is the most compact system in our range of pivot door hinges.

SYSTEM ONE

HEAVY-DUTY PERFORMANCE



FritsJurgens® System One excels in its simplicity. One pivot point. Rotation of 360° or 90° in combination with door frames.

The performance of System One is outstanding. The pivot hinge system is suitable for large, heavy and tall doors. The possibilities are endless. Due to the high load-bearing capacity of System One of up to 500 kg, there are virtually no restrictions on the design of the pivot door.



SYSTEM ONE

DESIGNED TO STAND THE TEST OF TIME

The System One hinge is virtually indestructible. Built from high performance materials, the pivot is maintenance-free. Our rigorous testing has shown that even after 1 million cycles (similar to 136 years of daily use) System One still behaves flawlessly.

System One packs the highest corrosion resistence (according to the standard EN 1154, class 4). Even the most diverse conditions do not affect the operation of this system. Thanks to a very compact housing and a cam made of duplex stainless steel, the System One has considerable power. This is a system truly designed for the ages: invisible, built-to-last and maintenance-free.

FRITSJURGENS®

OVERVIEW SYSTEMS

The FritsJurgens® pivot door range consists of tree systems. System One is the most compact system: the hinge acts as a revolving point.

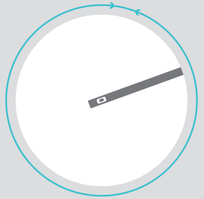
System 3 has three functions: rotation, closing and hold positions. System 3 can turn through 360° and is characterized by a hold position at every quarter of a circle.

The System M adds a new dimension to the pivot door by creating the ultimate smoothness: total control over the movement of the door.

SYSTEM ONE

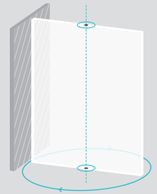


MOVEMENT

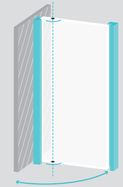


- Rotates 360°
- No hold positions or closing function

POSITIONING



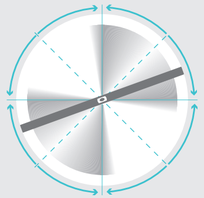
360°



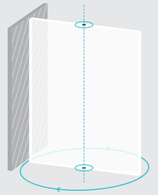
90°

SYSTEM 3

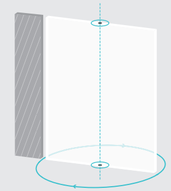




- Rotates 360°
- Hold positions at 0°, 90°, 180° and 270°
- Self-opening - The door automatically moves from each 45° angle in both directions to the next hold position
- Self-closing - The door comes to rest in the desired hold position after a few movements



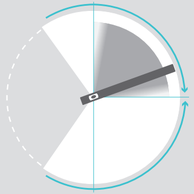
360°



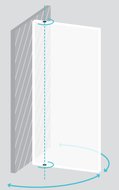
360°

SYSTEM M

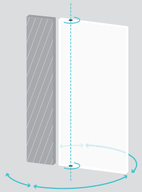




- Hold positions at 0°, 90° and -90°
- Self-closing from -125° and 125° - After opening, the door returns smoothly to the 0° position. The door can be manually set to the hold position 90° or -90°
- Adjustable closing damping (soft close)
- Adjustable hydraulic backcheck



180°



250°



90°



FRITSJURGENS®
SYSTEM ONE

NO STRUCTURAL ELEMENTS
System One fully mortised into the top and bottom of the door: no structural elements in floor and ceiling.

LOAD-BEARING CAPACITY: UP TO 500 KG
System One can support large and heavy doors up to max 500 kg thanks to high performance and corrosion resistant materials like duplex stainless steel and anodized aluminium.

MINIMUM DOOR THICKNESS: 40MM
The thickness of System One is only 34 mm.

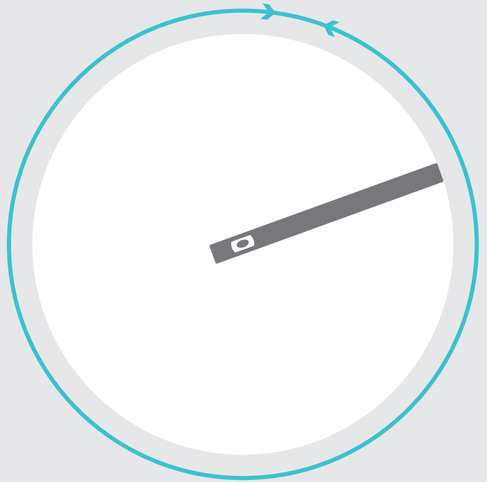
MAINTENANCE - FREE
Built from materials of the highest quality, the system is maintenance-free.

FOR NEW AND RETROFIT SITUATIONS
The floorplate fasteners only need to mortise 8mm in the floor, which means System One can also be combined with underfloor heating.

EASILY-ADJUSTABLE
The innovative design of our hinge systems means the gap between the door and jamb can be adjusted with the door fully-loaded.

SUITABLE FOR ALL TYPES OF DOORS
Ideal for large, heavy and tall timber, steel, framed glass and massive clad doors. Perfect for interior and exterior doors, in both residential and commercial environments.

SYSTEM ONE
COMPACT SOLUTION



ROTATES 360°
The door rotates 360° in both directions and does not contain hold positions.

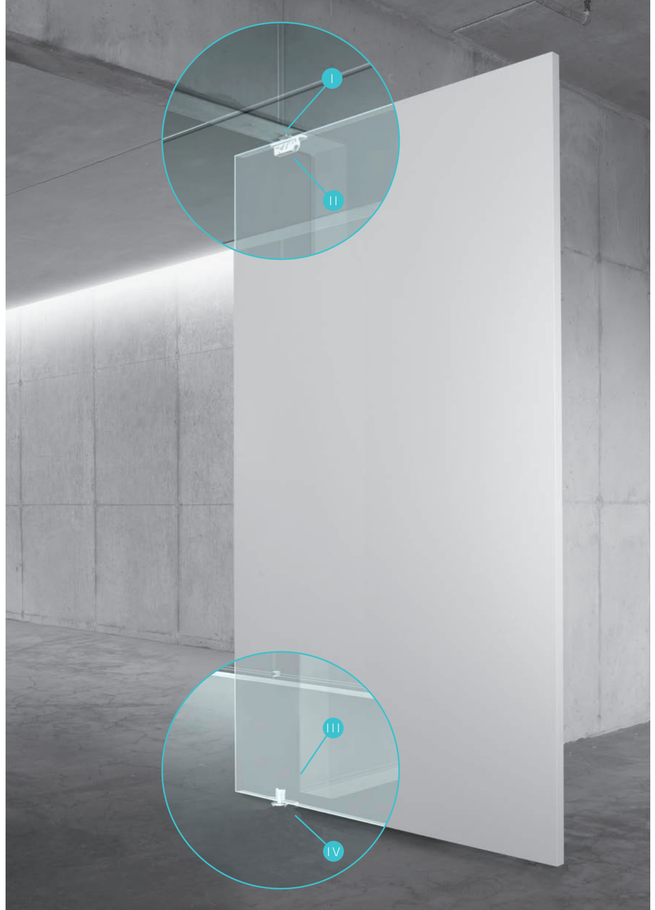
ONE FUNTION: ROTATION
System One is simply a very powerful pivot.

CAME BE COMBINED WITH DOORFRAMES
System One is also suitable for doors with door frames.

NO STRUCTURAL ELEMENTS IN FLOOR AND CEILING

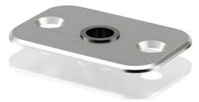
The FritsJurgens® pivot door system is unique in that there are no structural elements in the floor and the ceiling. The pivot hinges are fully mortised into the top and bottom of the door, so that only floor and ceiling plates need to be installed. A virtually invisible system.

System One is combined with the high-performance top pivot of FritsJurgens®, completed by small ceiling and floor plates.



SYSTEM ONE
COMPONENTS

I CEILING PLATE



II TOP PIVOT



III SYSTEM ONE



IV FLOORPLATE





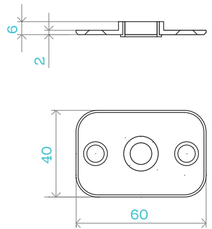
SYSTEM ONE

TECHNICAL DOCUMENTATION

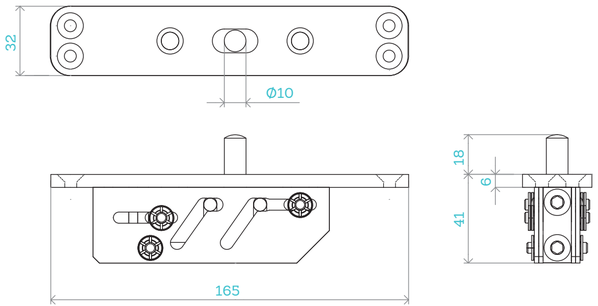
SYSTEM ONE

TECHNICAL DRAWINGS

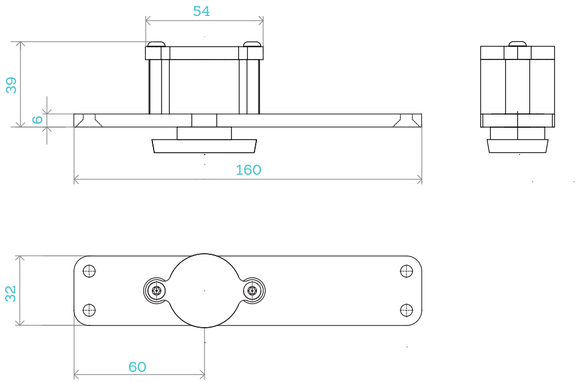
CEILING PLATE



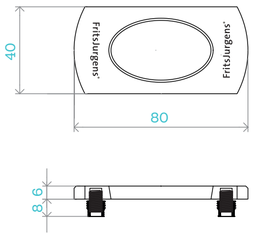
TOP PIVOT



SYSTEM ONE



FLOORPLATE



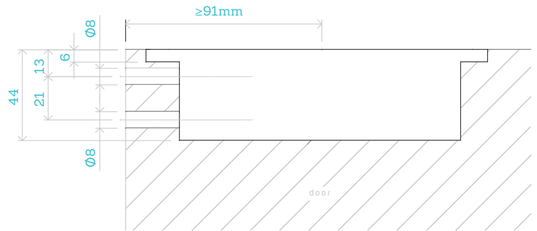
All dimensions in mm.

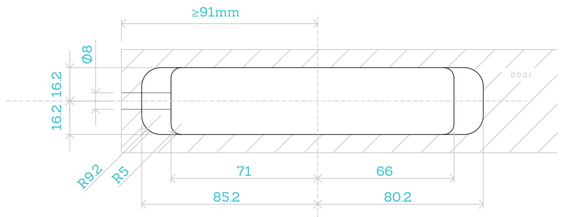
All dimensions in mm.

SYSTEM ONE

MILLING DRAWINGS

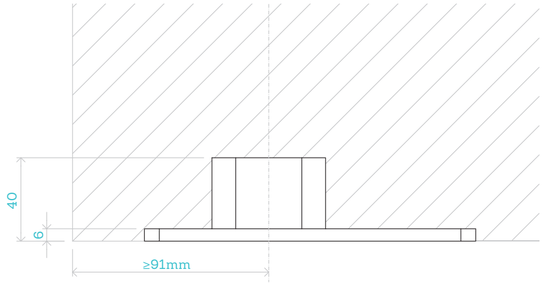
TOP PIVOT

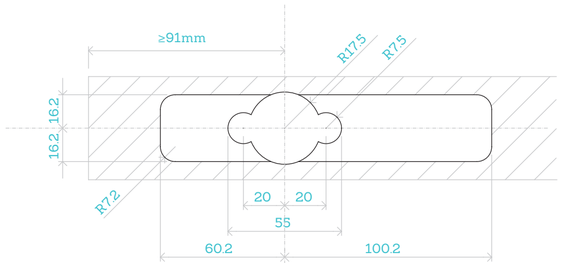




All dimensions in mm.

SYSTEM ONE





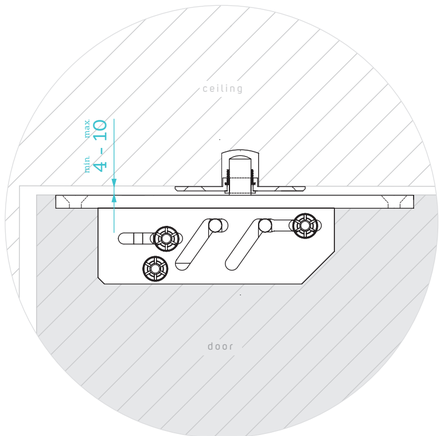
All dimensions in mm

SYSTEM ONE
GAPS AROUND THE DOOR

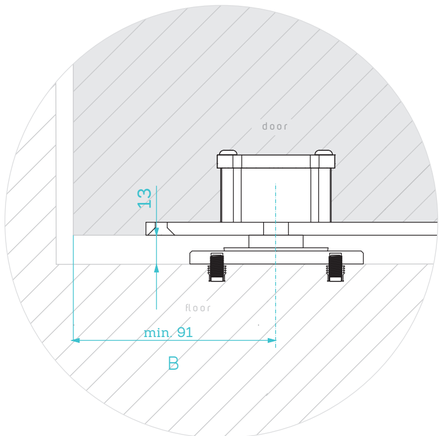
System One is designed to be virtually invisible. In addition, the system allows for minimal gaps all around the door. The minimum installation dimensions are 4mm at the top (ceiling) and 13mm at the bottom (floor).

The minimum vertical dimensions for installation depend on the thickness (X) and width of the door in relation to the positioning of the hinge (A and B). Important: the minimum distance from the pivot point of the hinge to the edge of the door (B) is 91mm.

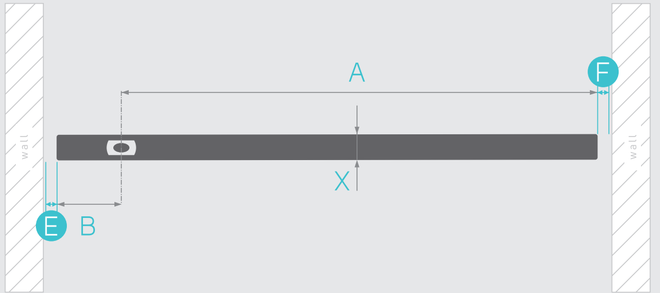
TOP PIVOT



SYSTEM ONE



GAP CALCULATION



EXAMPLE

X	Door thickness	40
A	Distance of rotation point to latch side of the door	1500
B	Distance pivot point to beginning door	91
E*	Minimum gap between door and wall	4.2
F*	Minimum gap between door and wall	2.1

E* \ B	X						
	40	50	60	70	80	90	100
91	4.2	5.4	6.8	8.5	10.4	12.5	14.8
250	2.8	3.3	3.8	4.4	5.2	6	7
500	2.4	2.6	2.9	3.2	3.6	4	4.5
1000	2.2	2.3	2.5	2.6	2.8	3	3.3
1500	2.1	2.2	2.3	2.4	2.5	2.7	2.8
2000	2.1	2.2	2.2	2.3	2.4	2.5	2.6

F* \ A	X						
	40	50	60	70	80	90	100
500	2.4	2.6	2.9	3.2	3.6	4	4.5
1000	2.2	2.3	2.5	2.6	2.8	3	3.3
1500	2.1	2.2	2.3	2.4	2.5	2.7	2.8
2000	2.1	2.2	2.2	2.3	2.4	2.5	2.6

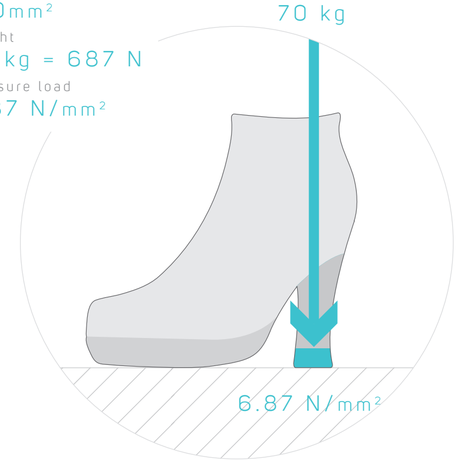
* There is no need to add extra space for installing.
The outcome for E and F includes a 2mm tolerance.

SYSTEM ONE
PRESSURE LOAD

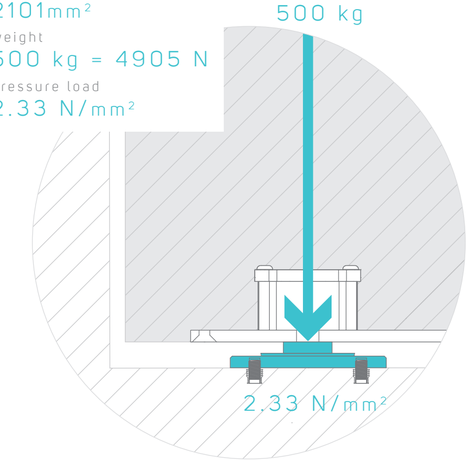
The Fritsjurgens® pivot door is fastened on a floorplate of 40 x 80mm and produces a pressure load (Fw) of 2.33 N/mm² with a door of 500 kg.

As a reference: a woman of circa 70 kg wearing high heels produces a pressure load (Fw) of 6.87 N/mm². For application on your floor we refer to the specifications of the floor manufacturer.

area
100mm²
weight
70 kg = 687 N
pressure load
6.87 N/mm²

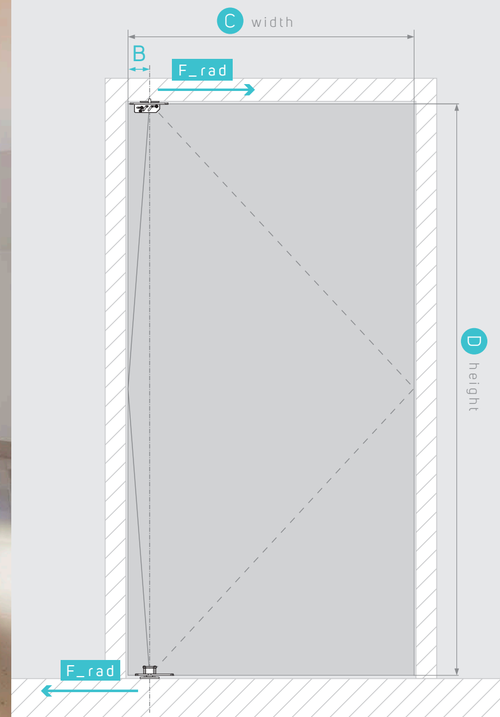


area
2101mm²
weight
500 kg = 4905 N
pressure load
2.33 N/mm²





LATERAL FORCE



B = 91 mm

weight door: 500 kg

C width (mm)

height (mm)	500	750	1000	1250	1500	1750	2000
2000	390 N	697 N	1003 N	1310 N	1616 N	1923 N	2229 N
2100	371 N	663 N	955 N	1247 N	1539 N	1831 N	2123 N
2200	355 N	633 N	912 N	1191 N	1469 N	1748 N	2027 N
2300	339 N	606 N	872 N	1139 N	1405 N	1672 N	1939 N
2400	325 N	580 N	836 N	1091 N	1347 N	1602 N	1858 N
2500	312 N	557 N	803 N	1048 N	1293 N	1538 N	1784 N
2600	300 N	536 N	772 N	1007 N	1243 N	1479 N	1715 N
2700	289 N	516 N	743 N	970 N	1197 N	1424 N	1651 N
2800	279 N	498 N	717 N	936 N	1154 N	1373 N	1592 N
2900	269 N	480 N	692 N	903 N	1115 N	1326 N	1538 N
3000	260 N	464 N	669 N	873 N	1078 N	1282 N	1486 N

B = 1/2 width door

At 1/2 door width F_rad has 0 N in all situations of height D - width C. The door is completely balanced because System One is placed in the middle. As a result, there is no extra lateral force on the floor and ceiling.

9.8 N = 1 kg

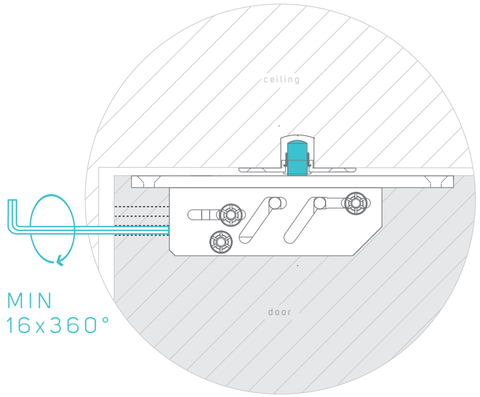
SYSTEM ONE

SETTING TOP PIVOT

MOUNTING TOP PIVOT

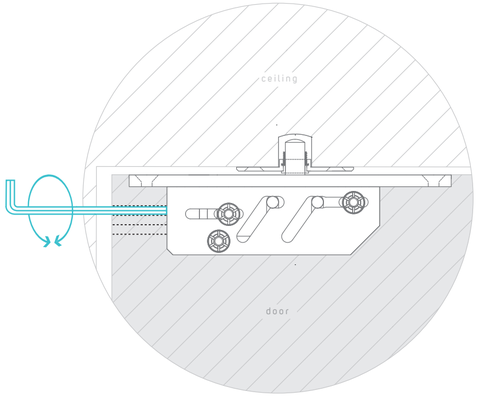
The top pivot can be set using a 5mm hex key in the bottom hole. To the right: assembly. To the left: disassembly.

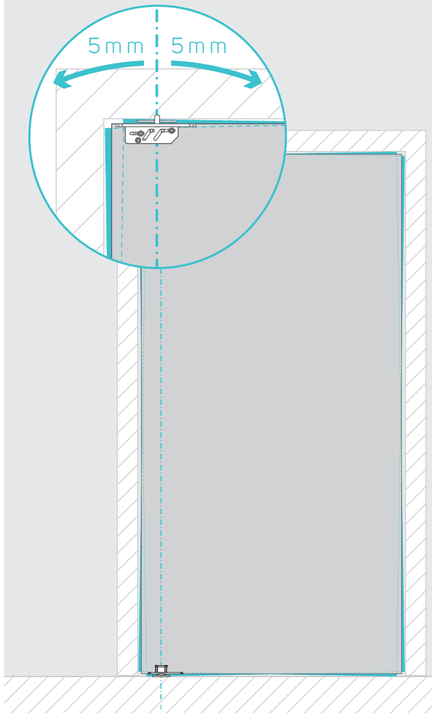
Important: to ensure that the door is secured properly, a minimum of 16 rotations of 360° are required.



SETTING THE GAP

Gaps around the door can be adjusted using a 5mm hex key in the top hole.





FRITSJURGENS®
SYSTEMS FEATURES

FritsJurgens® provides systems for multiple applications:

- Single, double-acting and 360° rotating doors
- With or without hold positions
- Adjustable closing speed of the door (soft close and back check)

FritsJurgens® offers the perfect solution for any pivot door.

FRITSJURGENS® SYSTEMS

- No structural elements in the floor or ceiling
- Quick and simple to install
- Maintenance-free
- For new construction and retrofit situations
- Easily-adjustable

FRITSJURGENS® APPLICATION AREAS

- Timber, steel and aluminium doors
- Massive clad custom doors
- Steel and timber framed glass doors
- Single and double-acting pivot doors
- Interior and exterior doors
- Commercial and residential







	SYSTEM ONE	SYSTEM 3	SYSTEM M
Rotation	360°	360°	-125° to 125°
System dimensions	160 x 34 x 39 mm	160 x 34 x 143 mm	294,8 x 32 x 99,6 mm
System weight	0,335 kg	0,75 kg	2,6 kg
Hold positions at every 90°	✗	✓	✗
Hold positions at 90° and -90°	✗	✗	✓
Self-opening	✗	✓	✗
Self-closing	✗	✓	✓
Adjustable closing damping (soft-close)	✗	✗	✓
Adjustable hydraulic backcheck	✗	✗	✓
Suitable for single action doors	✓	✗	✓
Suitable for double action doors	✓	✓	✓
Minimal number of movements tested	1.000.000	1.000.000	1.000.000
Minimum door thickness	40mm	40mm	40mm
Load-bearing capacity (up to)	500 kg	500 kg	500 kg
Maximum weight at latch force	NA	350 kg (See the datasheet of System 3)	300 kg (See the datasheet of System M)

FritsJurgens®

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www.fritsjurgens.com

2018-001-ONE (EN)

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