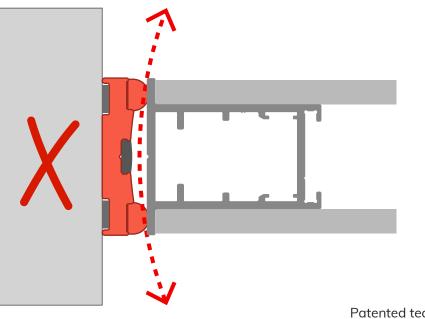# DOOR INSTALLATION MANUAL
Without vertical door jambs*

- Custom door leaf
- PortaPivot 6530
- PortaPivot 5045
- PortaPivot Glass

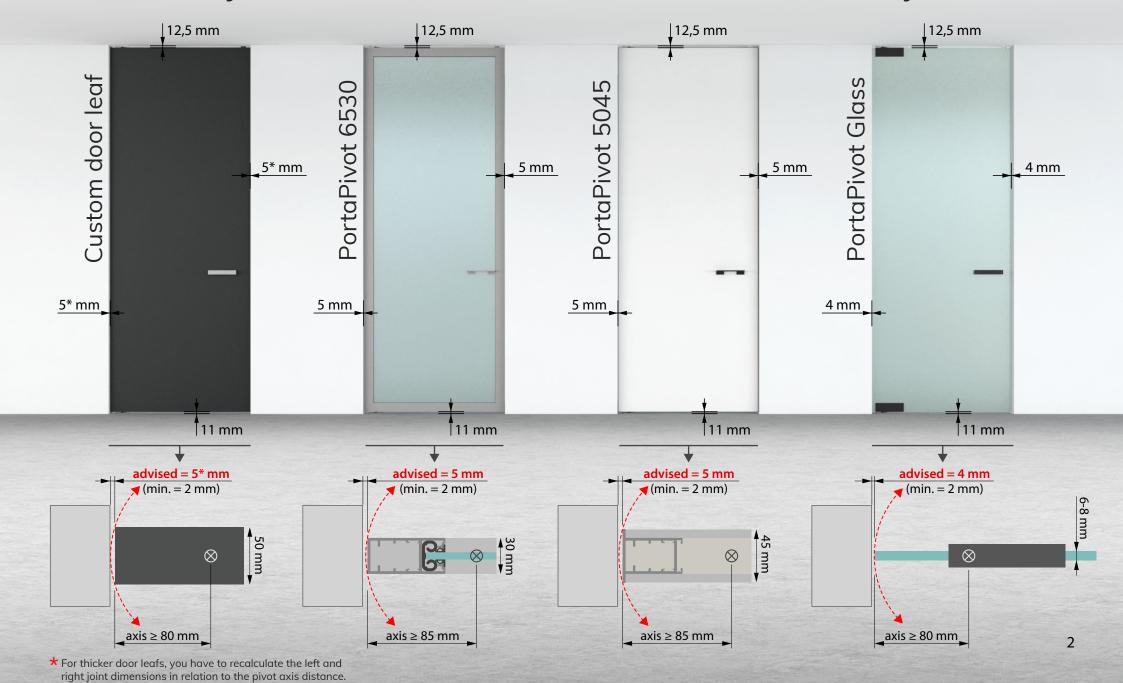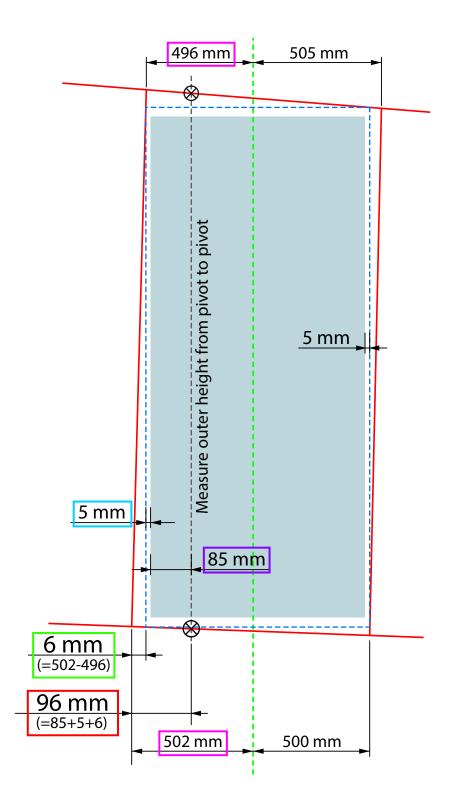This installation manual applies to both locally manufactured door leafs and PortaPivot door systems

*When using vertical door jambs, please refer to 'door installation with vertical door jambs' manual.

PortaPivot

STEALTHPIVOT
By PortaPivot

Patented technology

Advised joint dimensions - **without** vertical door jambs

Custom door leaf

12,5 mm

5* mm

5* mm

11 mm

advised = 5* mm
(min. = 2 mm)

50 mm

axis ≥ 80 mm

PortaPivot 6530

12,5 mm

5 mm

5 mm

11 mm

advised = 5 mm
(min. = 2 mm)

30 mm

axis ≥ 85 mm

PortaPivot 5045

12,5 mm

5 mm

5 mm

11 mm

advised = 5 mm
(min. = 2 mm)

45 mm

axis ≥ 85 mm

PortaPivot Glass

12,5 mm

4 mm

4 mm

11 mm

advised = 4 mm
(min. = 2 mm)

6-8 mm

axis ≥ 80 mm

2

* For thicker door leafs, you have to recalculate the left and
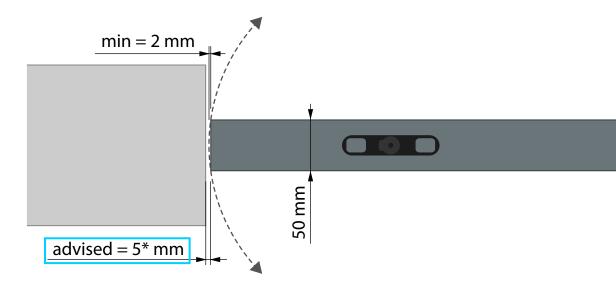right joint dimensions in relation to the pivot axis distance.
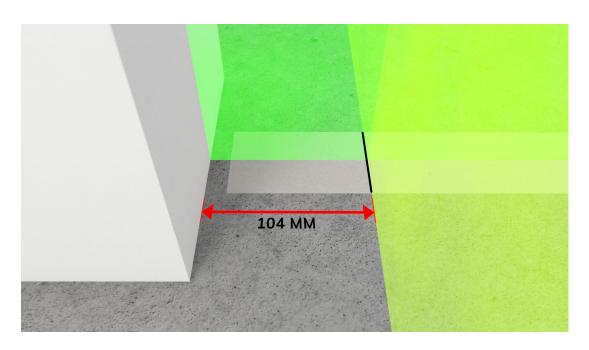
Define pivot axis

In this example, the pivot axis is placed at 85 mm from the door leaf edge.

The bottom left side of the doorway is 6 mm wider than the top left: 502 - 496 = 6 mm

⊗ To mark the pivot axis point on the floor, add the 5 mm joint and 6 mm slanting to the 85 mm pivot axis location:

$$85 + 5 + 6 = 96 \text{ mm}$$

496 mm   505 mm

5 mm

Measure outer height from pivot to pivot

5 mm

85 mm

6 mm
(=502-496)

96 mm
(=85+5+6)

502 mm   500 mm

min = 2 mm

50 mm

advised = 5* mm

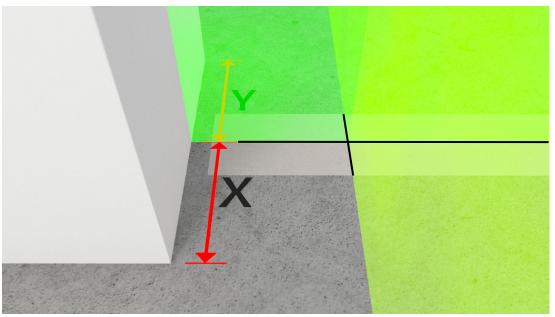*See page 2 for detailed information

3

Mark pivot axis

Apply masking tape on the floor.

Measure and mark the 91 mm pivot axis location onto the masking tape.

Place the laser in the doorway, exactly on top of the pivot axis marking.

Position the second laser plane exactly on the desired door leaf center location.
(In this example: X=Y)

Mark the door leaf centerline onto the masking tape.

Drill pivot mount holes

Align the drill tool exactly on top of the center lines and mark the 2 drilling holes.

Drill both holes with an 8 mm drill, +-45 mm deep.
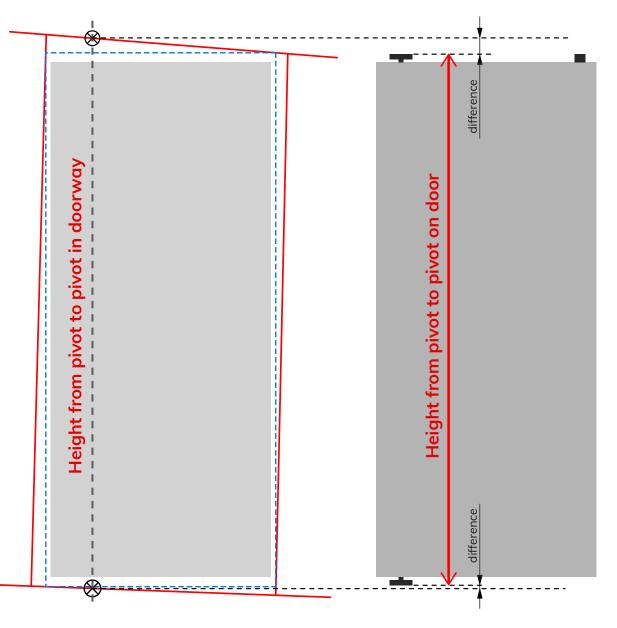
Install Hilti plugs.

Depending on subsurface, different plugs may be required.

Ø 8 mm
45 mm deep

Ø 8 mm
45 mm deep

Use a laser to project and mark both holes to the ceiling. Drill holes and insert Hilti plugs.

Synchronize pivot axis height in doorway

Height from pivot to pivot in doorway

Height from pivot to pivot on door

difference

difference

Check the pivot height of the door with the doorway measurements, and synchronize them if necessary.

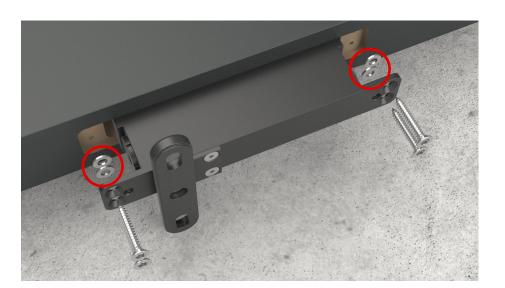There are different methods to do this, see following pages.

11 mm

(StealthPivot **NL** is shown)

Adjust bottom hinge height

The default bottom joint dimension is 11 mm (=distance between floor and door leaf edge).
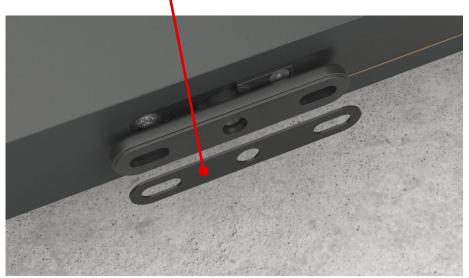

DOOR

11 mm

To increase the bottom joint, you have 2 options:

1. Use (supplied) shims between hinge and door leaf. This is the preferred method for the bottom hinge.

2. Use supplied shims between floor and hinge (= less stable).

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

8

Adjust top hinge height

The default top joint dimension is 12,5 mm (=distance between ceiling and door leaf edge). This is necessary for the optional 1-way accesory and positioning magnets
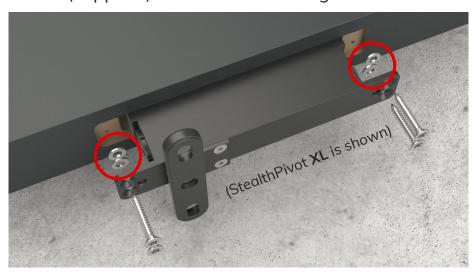

12,5 mm

DOOR

To increase the top joint, you have **3 options:**

1. Adjust the inbus screws to move the hinge further away from the door leaf (loosen 4 screws first). (only possible for non compressable door structure)

2. Use (supplied) shims between hinge and door leaf.

(StealthPivot **XL** is shown)

3. Use supplied shims between ceiling and hinge (= less stable).

StealthPivot **NL** and StealthPivot **XL** share identical installation steps
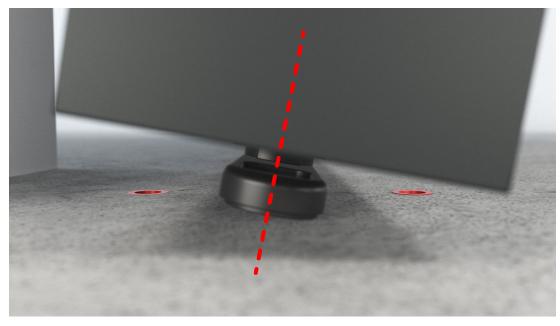
9

(StealthPivot **NL** is shown)

Door leaf installation

Make sure both pivots are in their 'closed' position.

Be careful when manipulating the self closing pivot. This will snap into position with large force!
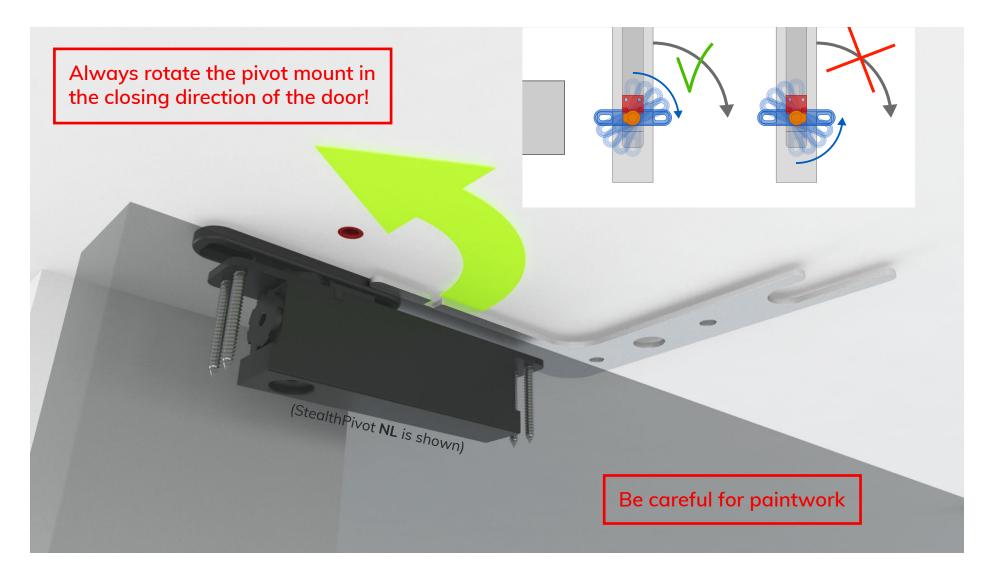

Place the door leaf in the doorway, and position the bottom pivot in between the 2 mounting holes at the axis position.

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

Tilt the door leaf upright, and keep it in place.

Use the drill tool to rotate the pivot mount in place. Repeat for the bottom pivot mount.

Be careful when manipulating the self closing pivot. This will snap into position with large force!

Always rotate the pivot mount in the closing direction of the door!

(StealthPivot **NL** is shown)

Be careful for paintwork

StealthPivot **NL** and StealthPivot **XL** share identical installation steps
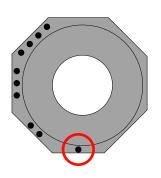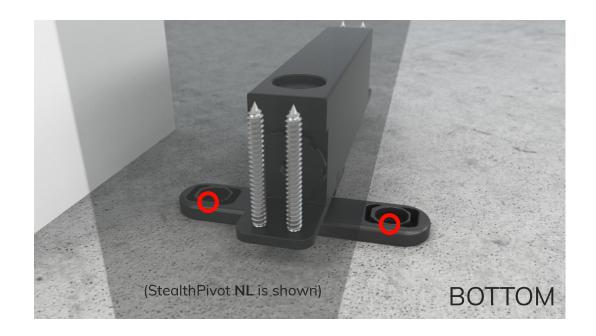
TOP first!

Secure top pivot first!

Install octagonal insert at position 1, insert screw but do not tighten fully yet.

Repeat for second insert and screw.

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

(StealthPivot **NL** is shown)

BOTTOM
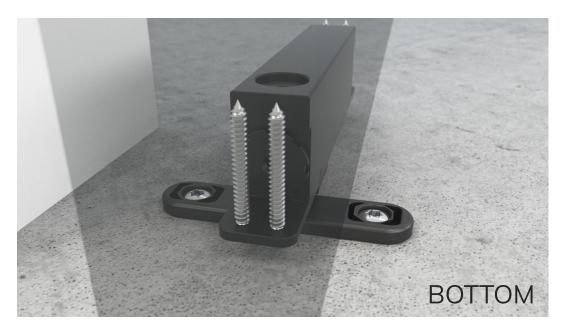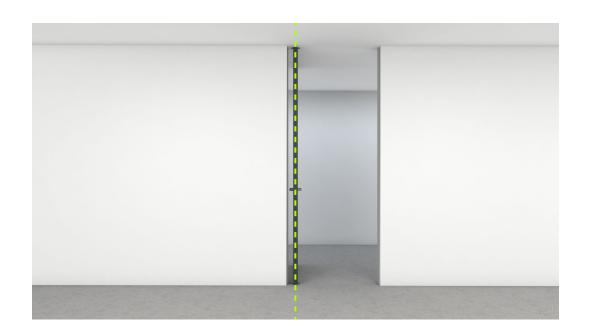
Repeat former steps for bottom pivot.

Make sure that all inserts are placed at postion 1, all facing the same side.

BOTTOM

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

Adjust pivot axis

Use a laser to check if the pivot axis is perfectly level.

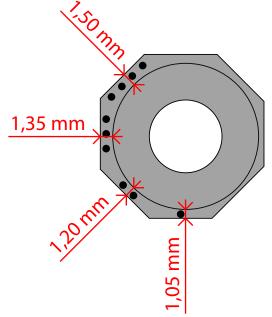

(StealthPivot **NL** is shown)

To correct the pivot axis, loosen the screws and adjust the position.

This can also be used to move the door leaf slightly left or right or to adjust the joints.
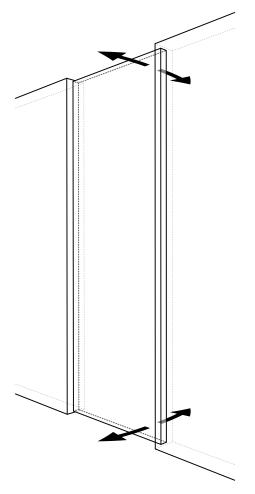
After adjustment, remember to tighten screws.

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

0° positioning

The octagonal inserts are used to finetune the door leaf angle to 0°.

Optional magnets can also be used for 0° positioning. The magnets will ensure correct 0° positioning over a longer period of time.
For more information, see page 19-21.

1,50 mm

1,35 mm

1,20 mm

1,05 mm

StealthPivot **NL** and StealthPivot **XL** share identical installation steps
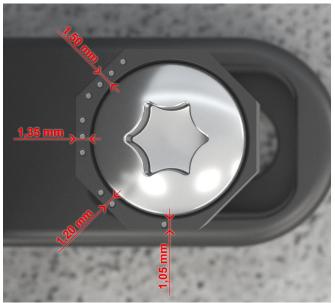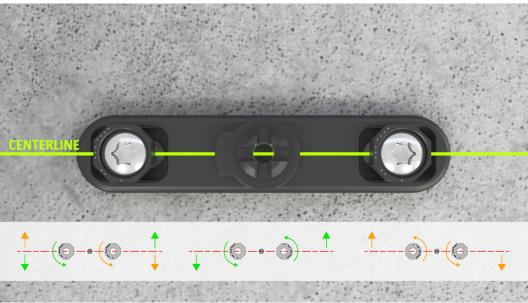
Loosen the screws, and use pliers to lift the insert out of the pivot foot.
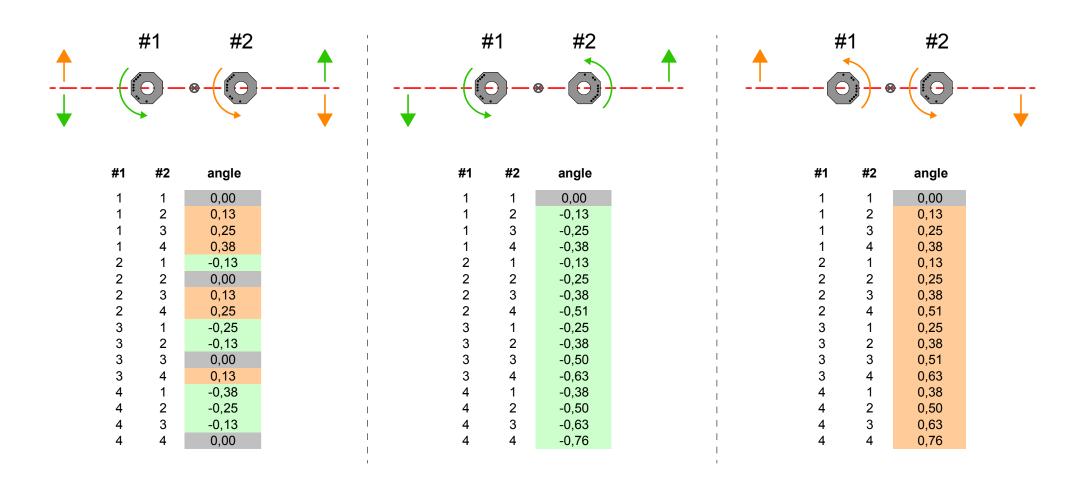
The inserts are excentric, so each position will affect the centerline angle of the door leaf.

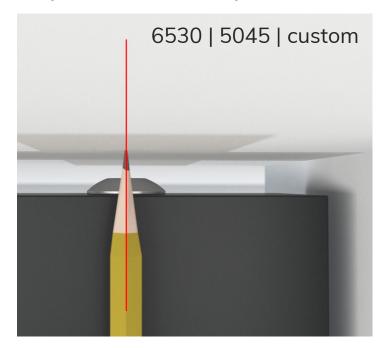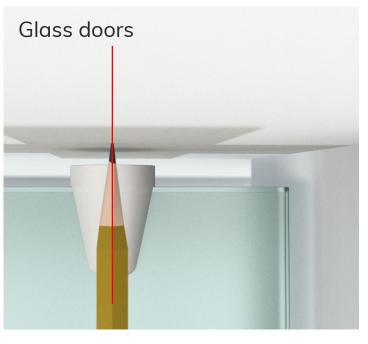The view below shows the effect on the centerline angle when rotating the inserts to different positions.

1,50 mm
1,35 mm
1,20 mm
1,05 mm

CENTERLINE

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

Correction angle diagram for 0° adjustment

#1	#2	angle
1	1	0,00
1	2	0,13
1	3	0,25
1	4	0,38
2	1	-0,13
2	2	0,00
2	3	0,13
2	4	0,25
3	1	-0,25
3	2	-0,13
3	3	0,00
3	4	0,13
4	1	-0,38
4	2	-0,25
4	3	-0,13
4	4	0,00

#1	#2	angle
1	1	0,00
1	2	-0,13
1	3	-0,25
1	4	-0,38
2	1	-0,13
2	2	-0,25
2	3	-0,38
2	4	-0,51
3	1	-0,25
3	2	-0,38
3	3	-0,50
3	4	-0,63
4	1	-0,38
4	2	-0,50
4	3	-0,63
4	4	-0,76

#1	#2	angle
1	1	0,00
1	2	0,13
1	3	0,25
1	4	0,38
2	1	0,13
2	2	0,25
2	3	0,38
2	4	0,51
3	1	0,25
3	2	0,38
3	3	0,51
3	4	0,63
4	1	0,38
4	2	0,50
4	3	0,63
4	4	0,76

Optional 0° positioning magnet on ceiling

6530 | 5045 | custom

Glass doors

Carefully mark the center of the doorleaf and the center of the magnet onto the ceiling.
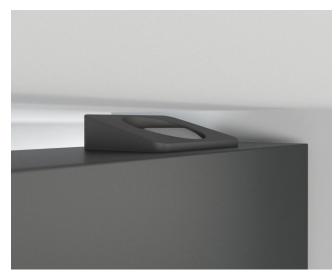

Ø 6 mm
50 mm deep

Drill the hole and install the magnet with Hilti plug and screw.

*If necessary, use optional shims for height adjustments of the magnets.

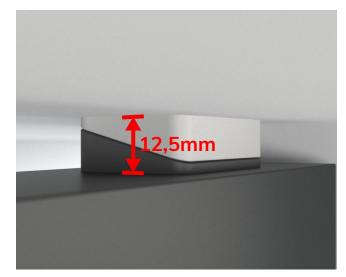For XL versions, you can mount a magnet on both sides of the ceiling to ensure 0° positioning.

Optional 1-way on ceiling
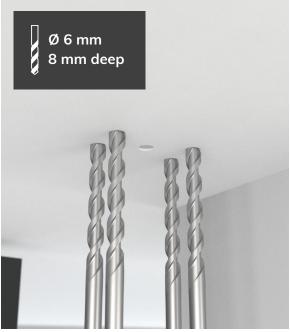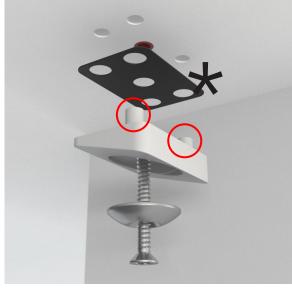
6530 | 5045 | custom

Glass doors

12,5mm

12,5mm

1-way accessory on the door should already be installed.
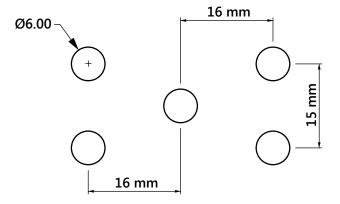
12,5 mm clearance is necessary to fit the 1-way.

Ø 6 mm
50 mm deep

Ø 6 mm
8 mm deep

Mark the center and drill a 6 mm hole +-50mm deep.

Next drill four 6 mm holes +-8 mm deep for the 1-way columns to fit.

Ø6.00

16 mm

15 mm

16 mm

*

If you cut away both columns, you only need to drill the center hole (=less stable!)

Install a Hilti plug.

Install the magnet and 1-way with a screw.

*If necessary, use optional shims for height adjustments of the 1-way.

For XL versions, you can mount a 1-way on both sides of the ceiling to ensure 0° positioning.

Minimize visible components

A supplied coloured cover can be placed to hide the screws and to blend with your floor or ceiling.

(StealthPivot **NL** is shown)

Different colors are available at www.portapivot.com

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

Adjustable closing force

The pivot closing force can be adjusted by changing the default gas springs.

Screw off (both) end cap(s), remove the gas spring(s) and replace them.

Screw (both) cap(s) back on.

StealthPivot **XL** set:
Default   = 4 x 400N
Optional* = 4 x 300N or 4 x 500N

StealthPivot **NL** set:
Default   = 2 x 300N
Optional* = 2 x 400N or 2 x 500N

*Can be purchased seperatly on our website
www.portapivot.com

(StealthPivot **XL** is shown)

StealthPivot **NL** and StealthPivot **XL** share identical installation steps

Finished product examples

Custom door leaf   PortaPivot 6530   PortaPivot Glass   PortaPivot 5045