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

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

* advised = 5* mm
* axis ≥ 80 mm

* min = 2 mm
* advised = 4* mm
* axis ≥ 80 mm
Define pivot axis

In this example, the pivot axis is placed at 80 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 80 mm pivot axis location:

\[80 + 5 + 6 = 91\] mm

\[\text{min} = 2\] mm

advised = 5 mm
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.
Use a laser to project and mark both holes to the ceiling. Drill holes and insert Hilti plugs.
Synchronize pivot axis height in doorway

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.
Adjust bottom hinge height

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

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 (displayed = StealthPivot NL).
Adjust top hinge height

The default top joint is 12.5 mm (=distance between ceiling and door leaf edge). This is necessary for the optional 1-way accessory and positioning magnets.

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.

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

StealthPivot NL and StealthPivot XL share identical installation steps (displayed = StealthPivot NL).
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 (displayed = StealthPivot NL).
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!

Be careful for paintwork

StealthPivot NL and StealthPivot XL share identical installation steps (displayed = StealthPivot NL).
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 (displayed = StealthPivot NL).
Repeat former steps for bottom pivot.

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

StealthPivot NL and StealthPivot XL share identical installation steps (displayed = StealthPivot NL).
Adjust pivot axis

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

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 (displayed = StealthPivot NL).
**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.
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.

StealthPivot NL and StealthPivot XL share identical installation steps (displayed = StealthPivot NL).
**Correction angle diagram for 0° adjustment**

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Optional 0° positioning magnet on ceiling

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

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

1-way accessory on the door should already be installed.

12,5 mm clearance is necessary to fit the 1-way.
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.

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.

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

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

Different colors are available at www.portapivot.com

StealthPivot NL and StealthPivot XL share identical installation steps (displayed = StealthPivot NL).
Adjustable closing force

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

Screw off both end caps, remove the gas springs and replace them.

Screw both caps 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 separately on our website www.portapivot.com

StealthPivot NL and StealthPivot XL share identical installation steps (displayed = StealthPivot XL).
Finished product examples

Custom door leaf  PortaPivot 6530  PortaPivot Glass  PortaPivot 5045