DOOR INSTALLATION MANUAL

With vertical door jambs*

- Custom door leaf (30 or 45 mm thick)
- PortaPivot 6530
- PortaPivot 5045

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

*When not using vertical door jambs, please refer to ‘door installation without vertical profiles’ manual.
*PortaPivot Glass is always without vertical door jambs.
Advised joint dimensions - with vertical door jambs

Custom door leaf (30 or 45 mm thick)

PortaPivot 6530

PortaPivot 5045
Vertical Door Jambs will standard be supplied with an overlength of ‘door leaf height + 30 mm’, and can be cut to length on site.

1. The vertical door jamb uses 2 compressable Qlon strips to close/minimize vertical joints between the door and doorway (left & right).

2. It is mounted to the wall with screws and plugs, and joint adjustments are possible because of the special ‘swelling foam’ to be attached on the back of the aluminium profiles.

3. After installation, screws are hidden behind a rubber profile.
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 13 mm joint and 6 mm slanting to the 85 mm pivot axis location:

\[85 + 13 + 6 = 104\] mm
Mark pivot axis

Apply masking tape on the floor.

Measure and mark the 104 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.
Install vertical joint profiles

To install the vertical door jambs, first place a laser in the center of the doorway.

Hold the profile in place, and mark all the holes onto the wall.
Drill all the holes in the marked locations, with a 6 mm drill +-45 mm deep.

Install a hilti plug in each hole.
Take the profile and install 2 swelling foam strips on the back side.

Make sure to install the profile to the wall immediately after attaching the swelling foam. It is easier to install if the foam is still compressed!
Use the supplied screws to install the profile to the wall.

Fully tighten all screws, adjustments can be made when the door is installed.
Repeat all steps to install the second vertical joint profile.
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.
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).

Adjust bottom hinge height

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

StealthPivot NL and StealthPivot XL share identical installation steps.
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 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.
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!

Be careful for paintwork

StealthPivot NL and StealthPivot XL share identical installation steps
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
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
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.

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 27-29.

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.

StealthPivot NL and StealthPivot XL share identical installation steps
Correction angle diagram for 0° adjustment

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Vertical door jambs adjustments

To adjust the joint, loosen the screws of the door jamb. The foam will swell and push the door jamb closer to the door. The 2 Qlon strips should just touch the door (left and right side).
When the vertical door jambs are perfectly adjusted, install the rubber insertion profile to hide all screws.
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
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 separately on our website www.portapivot.com

StealthPivot NL and StealthPivot XL share identical installation steps.
Finished product examples

- Custom door leaf
- PortaPivot 6530
- PortaPivot 5045