

Pisko® SafeLine

Installation on Sandwich panel using Pisko Strong wall mounting plate

Pisko Strong wall mounting plate is designed for use on horizontally installed Sandwich-panels with a minimum surface thickness of 0.5 mm, a minimum surface yield strength of 280 MPa, a minimum total panel thickness of 150 mm and a minimum panel tensile strength of 0.095 MPa. The wall anchorage plate can only be installed on an intact panel (not on a narrowed panel). In the event of an accident, the design load ($A_d = 10 \text{ kN}$)* imposed by the wall mounting plate shall be taken into account in the panel sizing when designing the structure. Safety product solutions may only be used with sandwich panels of which the load-bearing capacity is known and considered as part of the structure.

The maximum installation distance of Pisko Luja wall mounting plates is 5 metres when the deviation of the installation line from the horizontal is no more than 15 degrees. For horizontal deviations of 15 to 40 degrees, the maximum installation distance is 1.5 metres. No installation is permitted at a horizontal deflection of more than 40 degrees.

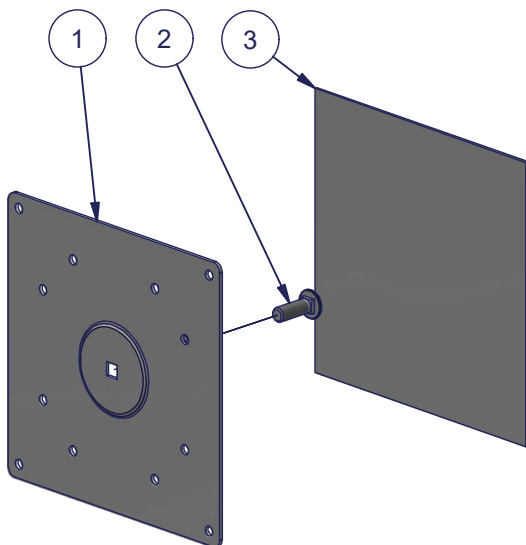
The minimum installation distance of the mounting plate is 150 mm from the edge anchorage of the panel to the edge of the mounting plate. The mounting plate shall be installed below the top fixing screw of the panel and inside the outermost fixing screw. If the panel has a surface profile, the mounting plate shall be installed so that the fixing screws are in the smooth part of the panel surface (not in the shadow groove).

Contrary to the illustrations in the installation instructions, a 220 mm high SafeLine fixing support can also be used for the installation, if required.

The wall mounting plate can also be used on other wall materials such as wood and concrete structures. In this case, the fixing must be designed and dimensioned so that the fixings and substructure can withstand the dimensioning value $A_d = 10 \text{ kN}$ *. When installing on non-sandwich panels, care must also be taken to ensure watertightness between the fixing point and the wall structure.

INSTALLATION

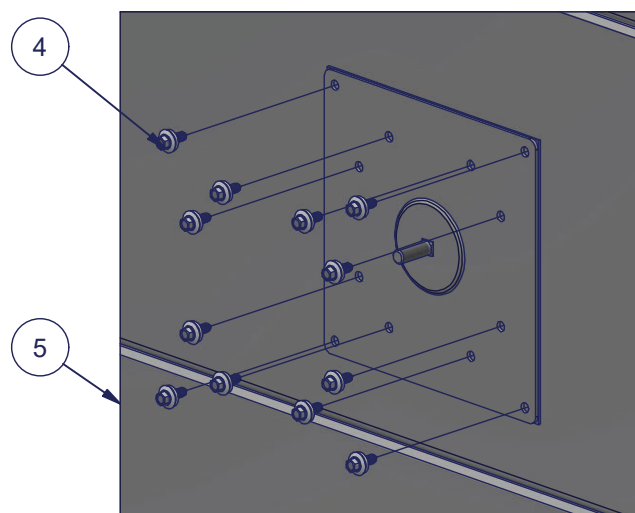
Install the M10 mounting plate bolt to the bottom of the wall mounting plate. Clean the bottom of the plate with a cleaning cloth and glue the adhesive sealing to the bottom of the fixing plate. Use only the cleaning cloth and sealing sheet supplied with the wall mounting plate.



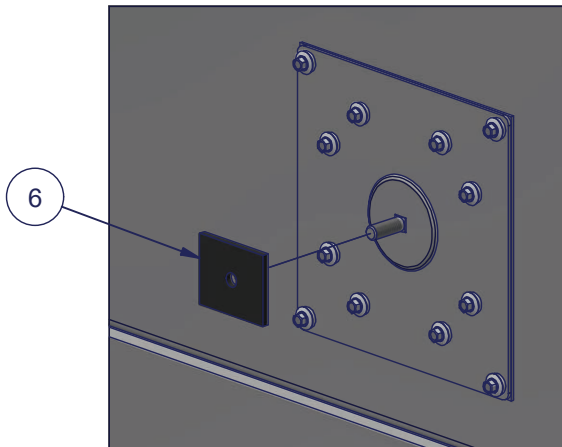
Part	Description
1	Pisko Strong wall mounting plate, M10 (200 x200 mm)
2	Lock screw, 30 mm
3	Adhesive sealing 200 x 200
4	Pisko sheet metal screw
5	Sandwich panel

Clean the attachment point on the surface of the Sandwich panel with the supplied cleaning cloth and glue the wall mounting plate to the panel with the adhesive sealant. Lock the glued fixing plate in place using twelve Pisko sheet metal screws in the positions shown in the picture.

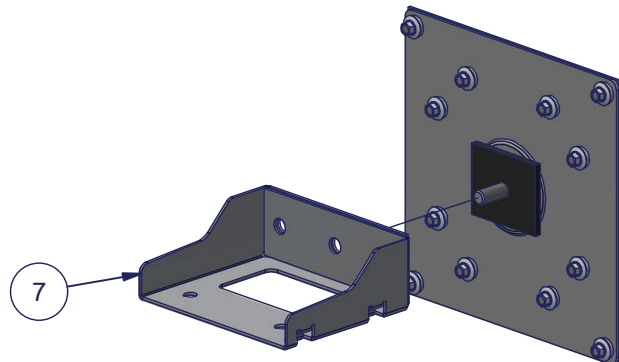
Prior to screw fixing, the wall mounting plates can be aligned, for example with a string line, by fixing them to the panel using the adhesive surface of the sealing sheet for alignment. The adhesive sealing itself forms a strong joint, so make sure the bolt is in place and in the correct position before fixing the panel.



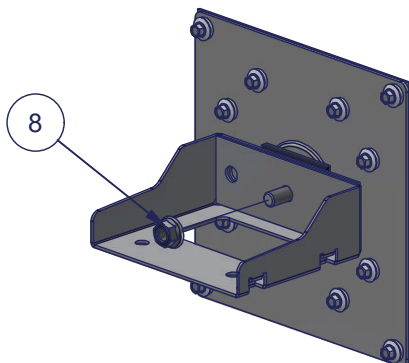
Install the EPDM seal on the M10 mounting bolt.



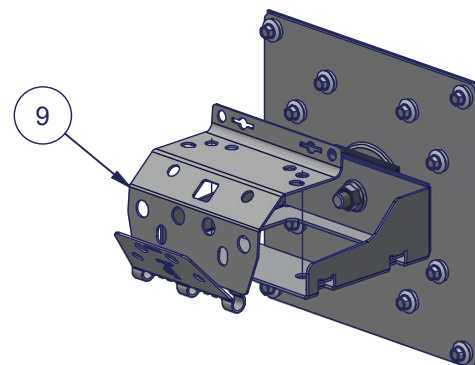
Install the SafeLine fixing support on the M10 mounting bolt on top of the EPDM seal.



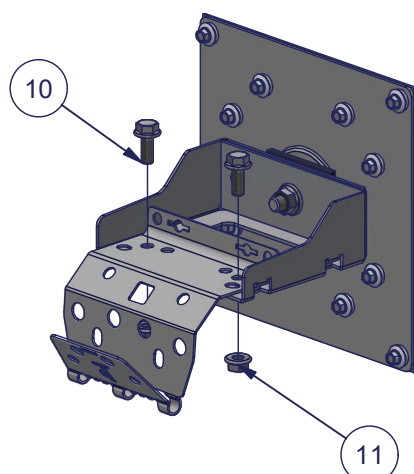
Insert an M10 flange nut on the lock screw. The tightening torque is 15 Nm.



Install SafeLine wire holder bracket on the fixing support so that the holes are aligned.



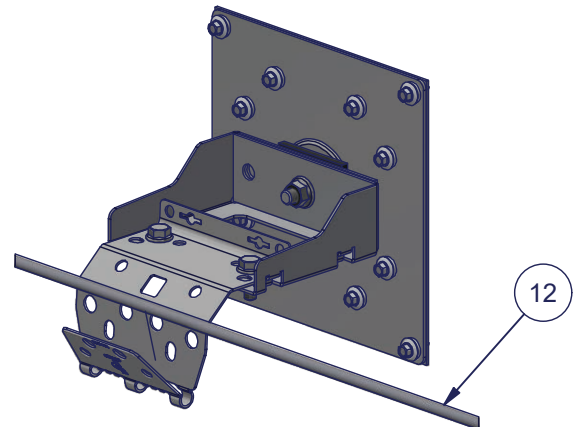
Attach the wire holder bracket on the fixing support with M8 flange bolts and flange nuts.



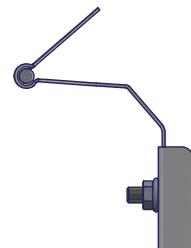
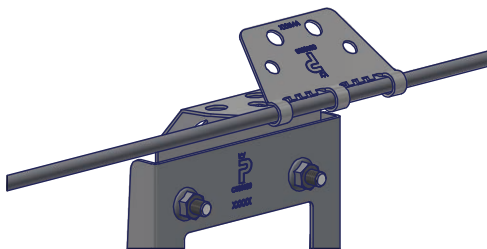
Part	Description
6	EPDM seal
7	Safeline fixing support 120
8	M10 flange nut
9	SafeLine wire holder bracket
10	M8 serrated flange bolt, 20 mm
11	M8 serrated flange nut

Bend open the top plate of the bracket, so that the wire fits inside the ring shaped elements of the bracket. Insert the wire in the bracket.

Part	Description
12	SafeLine stainless steel wire, 8 mm

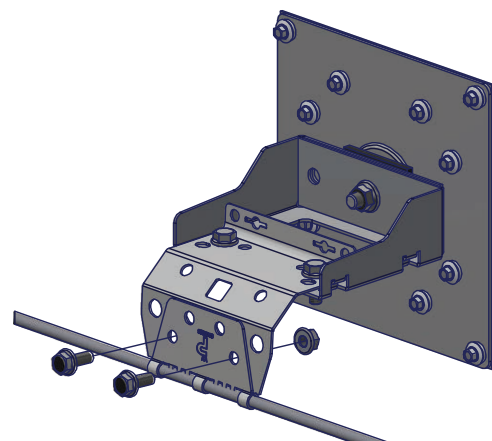
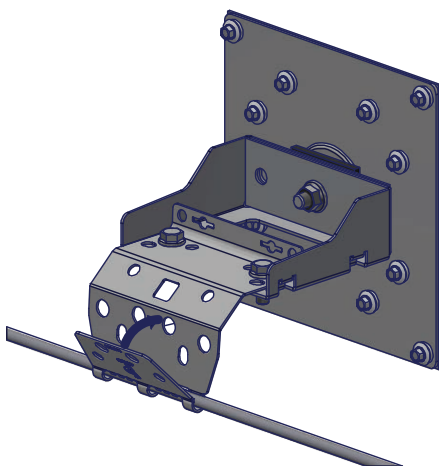


When inserting the wire inside the bracket, make sure the wire is completely inside the ring shaped elements of the bracket. Otherwise the teeth of the bracket might not align correctly with the wire.

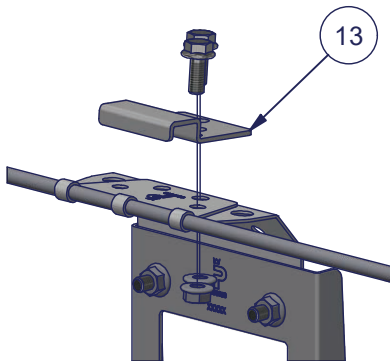


Bend the top plate of the bracket towards the lower plate. While doing this, make sure the wire stays inside the ring shaped elements of the bracket.

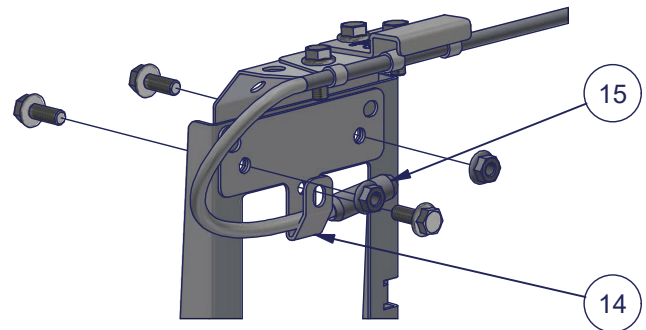
Lock the plates together with M8 flange bolts and flange nuts. Use the mounting holes closest to the wire. The tightening torque is 18 Nm or until the surfaces are completely against each other at the point of attachment.



At the end of the wire, install a glider end stop for wire holder bracket on the last bracket. One of the screws used to attach the end stop is the same which is used to lock the plates of the wire holder bracket in the previous step.



After the last SafeLine wire holder bracket, the end of the wire is turned 180 degrees and is locked against the fixing support with SafeLine wire ending bracket. This improves the safety of the user.



Part	Description
13	Glider end stop for wire holder bracket
14	SafeLine wire ending bracket
15	Wire end protector 8 mm, stainless steel

In the event of an accident, the forces transmitted from the wall mounting plate to the panel may damage the surface layer of the panel.

If the loose end of the wire after the last bracket has not been equipped with any factory-mounted terminal, it shall be protected with wire end protector by pressing or using an alternative corresponding method.

A minimum of 40 cm of wire is needed after the last wire holder bracket, so the wire can be safely secured on the side of the fixing support.

Always install the wire between the brackets as tight as possible. In time, there will be structural stretching of the wire, which will prevent the possibility of over tightening.

USE

- Ensure the official commissioning inspection has been carried out by the installer
- Use only original parts provided by Piristeel Oy
- Instructions for the proper use of access ways can be found in separate product specific instructions
- Connect to the wire only with a glider certified for Pisko SafeLine system
- Pisko SafeLine wire system is to be used as a fall protection when moving along the appropriate path along the danger zones of the roof. Leaning heavily on the wire while working on the roof might damage the system
- Do not use the system if there is any visible damage
- Access ways used for Pisko SafeLine installation must be executed according to Class 2 performance
- SafeLine installed in a ladder can have only one person at a time
- Two persons are allowed to be attached on the Pisko SafeLine wire simultaneously on a walkway, a bitumen roof installation, a steel roof installation, a standing seam installation or on a Pisko Strong wall mounting plate installation, when there are at least two Pisko SafeLine wire holder brackets between the two persons
- Connecting to the wire is only allowed between Pisko SafeLine wire holder brackets. Connecting is NOT allowed after the last bracket, even if there is a loop formed by the wire
- Pisko SafeLine wire system is not suitable for sports or recreational activities
- Make sure that the harness matches the requirements provided in standard EN 361, and that the harness has not been damaged. In addition, adjust the harness to the correct measurements before use of the system, and, if required also adjust the harness during use
- Use only proper safety ropes intended to be used as a Personal Protective Equipment

MAINTENANCE

To ensure the reliability and safety of the products, the property owner must carry out yearly inspection and maintenance procedures, by a professional authorized by the manufacturer.

Yearly Maintenance inspection checklist for Pisko Safeline wire system:

- Check the tightness of joints, connections and attachments
- Check that there are no damaged wire holder brackets, ladder fixing pieces or flat roof fixing pieces for wire holder
- Check that the wire is undamaged
- Check that the glider(s) is undamaged
- Test the movement of glider stoppers for ladders and check that the parts of the stopper are not damaged
- If the wire system is attached to a ladder or a walkway, inspect those parts according to their own maintenance instructions
- Replace any damaged or faulty parts immediately
- Use only original parts provided by Piristeel oy when replacing damaged parts.
- Additional information can be found on separate inspection form or Pisko Pro app



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Commissioning inspection done by

Company

Inspector

Date