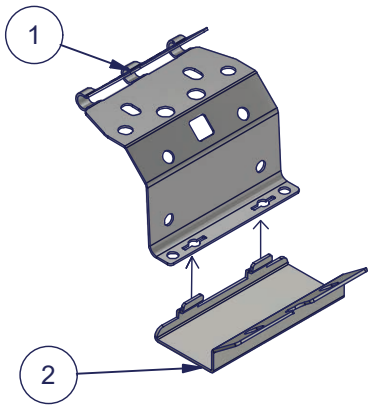
Pisko® SafeLine
Installation on a Pisko roof ladder

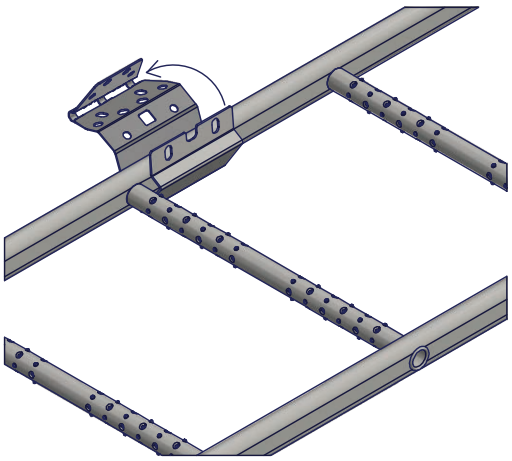
Pisko SafeLine is a fall stopping system. It is not meant to be used by leaning against the wire with the safety rope.
Before installation, make sure that the roof ladder(s) in use is installed according to class 2.

INSTALLATION

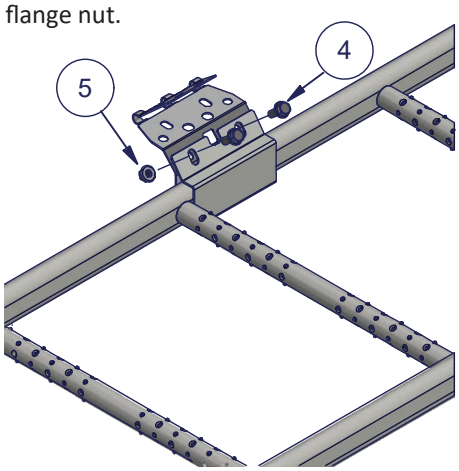
Fit the wire holder bracket (1) and the ladder fixing piece (2) together



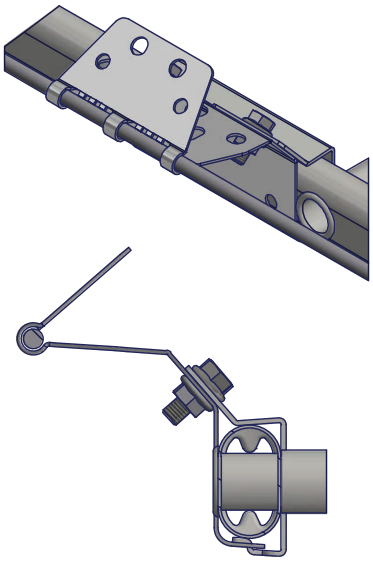
Place them on the stile on top of the rung and squeeze them around the stile.



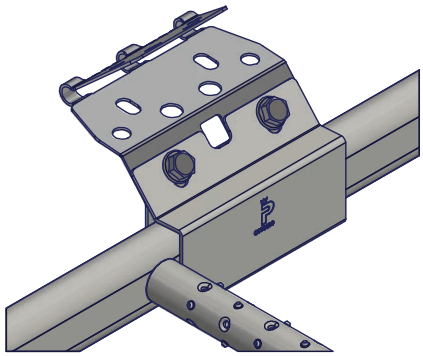
Lock the fixing piece to the wire bracket with 2 x M8 flange bolt and 2 x M8 flange nut.



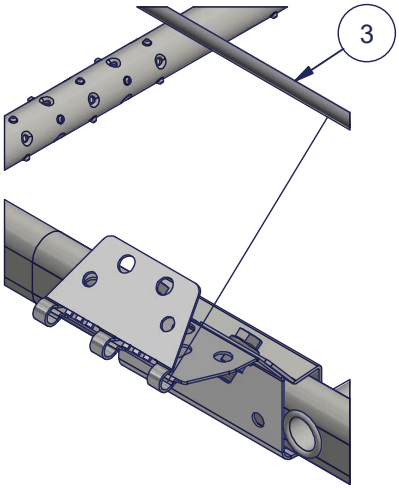
When inserting the wire inside the bracket (1) make sure the wire is completely inside the ring shaped elements of the bracket (1). Otherwise the teeth on the bracket (1) might not align correctly with the wire.



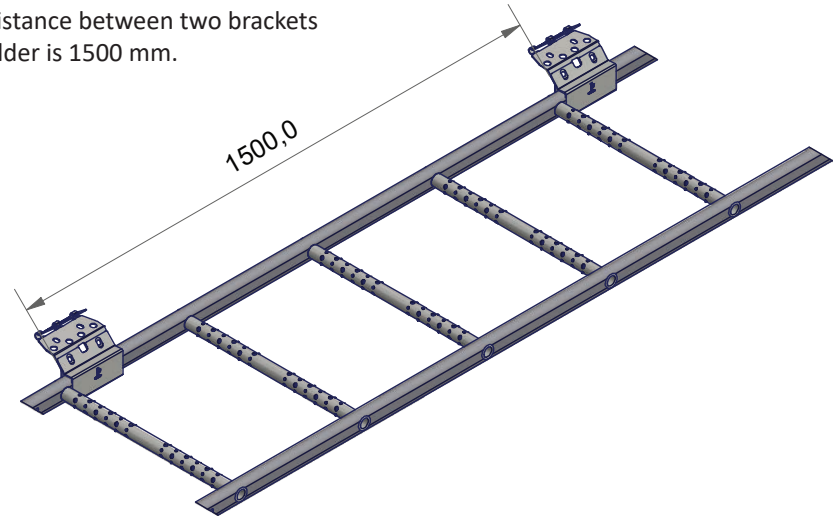
Bend open the top plate of the bracket (1) so that the wire fits inside the ring shaped elements of the bracket (1).



Insert the wire (3) inside the ring shaped elements on the bracket (1)

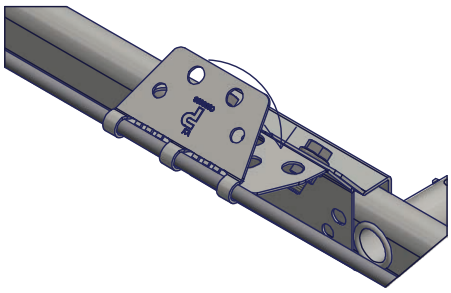


Maximum distance between two brackets on a roof ladder is 1500 mm.

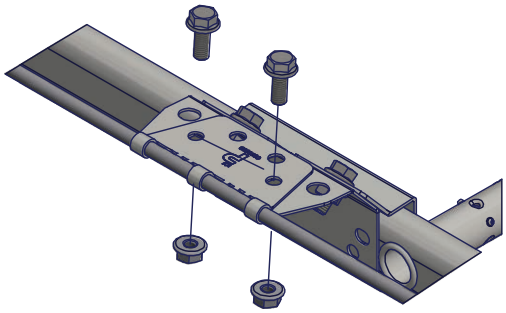


Part	Description
1	SafeLine wire holder bracket
2	Ladder fixing piece for wire holder
3	Pisko SafeLine stainless steel wire, 8mm
4	M8 serrated flange bolt 20mm, A2 stainless steel
5	M8 flange nut, A4 treated stainless steel

Bend top plate of the bracket (1) towards the lower plate. While doing this, make sure the wire (3) stays inside the ring shaped elements of the bracket (1).



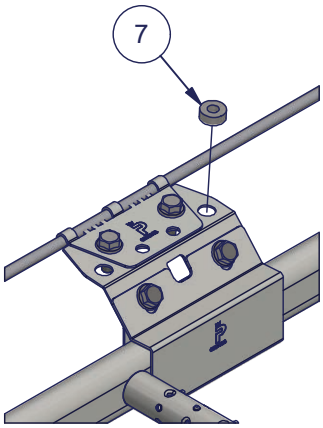
Lock the plates together with 2 x M8 flange bolts and 2 x M8 flange nuts. The tightening torque is approx. 30 Nm, or until the surfaces are completely against each other at the point of attachment.



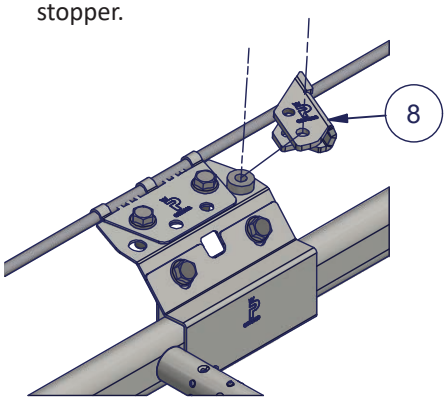
IF THE ROOF LADDER IS MOUNTED ON A ROOF WHICH IS INCLINED 40° OR MORE, A GLIDER STOPPER FOR LADDER MUST BE INSTALLED ON EACH WIRE HOLDER BRACKET AND WITH A MAXIMUM DISTANCE OF 900 MM BETWEEN TWO BRACKETS. EXCEPTION TO THIS IS WHEN THE WIRE CONTINUES FROM THE TOP OF THE LADDER. IN THIS CASE DO NOT INSTALL A GLIDER STOPPER FOR LADDER ON THE TOPMOST WIRE HOLDER BRACKET.

WIRE RUNNING ON THE LEFT SIDE STILE OF THE LADDER:

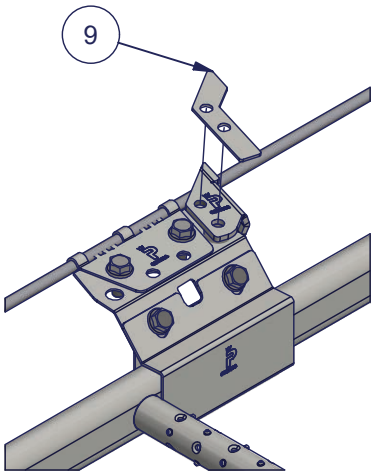
Insert the spacer for the glider stopper (7) on the front of the bracket (1)



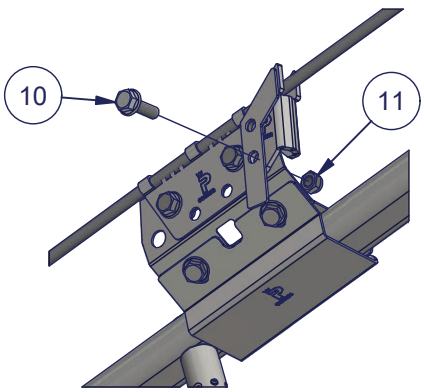
Slide the glider stopper for ladders (8) on the bracket, so that the holes in the stopper and the spacer (7) are aligned. The stopper is correctly aligned when P-mark is towards the front. The wire will run through the fork of the glider stopper.



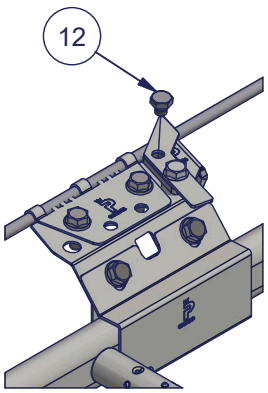
Place the handle for the glider stopper (9) on the glider stopper (8) so that the holes are aligned.



Lock the glider stopper (8) and the handle (9) in place with M8x30 flange bolt (10) from the front and an M8 nyloc nut (11) from the back.



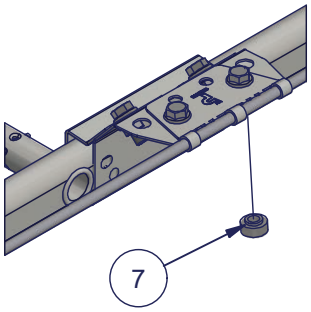
Tighten the handle (9) in it's position with M8x8 bolt (12) on the threaded hole of the glider stopper (8).



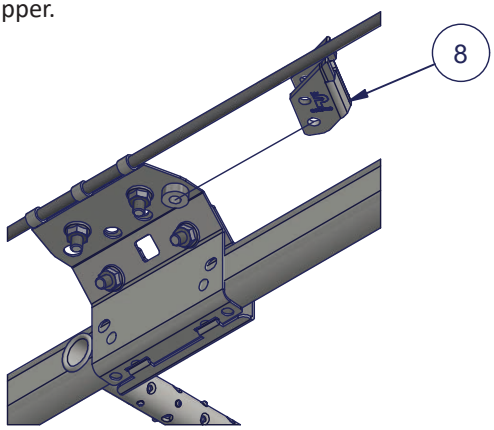
Part	Description
1	SafeLine wire holder bracket
2	Ladder fixing piece for wire holder
3	Pisko SafeLine stainless steel wire, 8mm
4	M8 serrated flange bolt 20mm, A2 stainless steel
5	M8 flange nut, A4 treated stainless steel
7	Spacer for the glider stopper
8	Glider stopper for ladder
9	Handle for the glider stopper
10	M8 flange bolt 35mm, A2 stainless steel
11	M8 nyloc nut, A2 stainless steel
12	M8 bolt 8mm, A2 stainless steel

WIRE RUNNING ON RIGHT SIDE STILE OF THE LADDER:

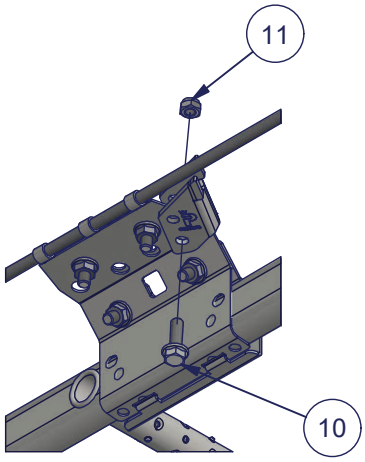
Insert the spacer for the glider stopper (7) on the back of the bracket (1).



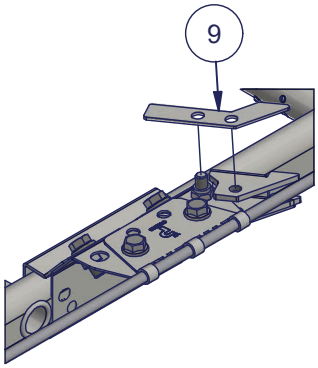
Slide the glider stopper for ladder (8) on the bracket (1), so that the holes in the stopper and the spacer (7) are aligned. The stopper is correctly aligned when P-mark is towards the back. The wire will run through the fork of the glider stopper.



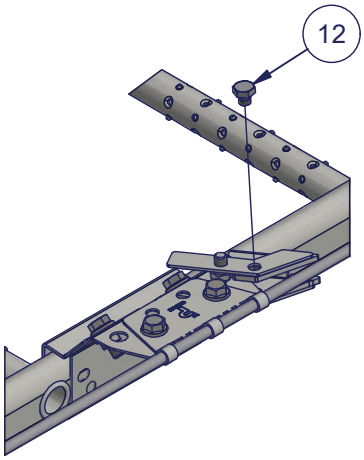
Lock the glider stopper (8) in place with M8x30 flange bolt from the back and an M8 nyloc nut from the front.



Place the handle for the glider stopper for ladder (9) on the glider stopper (8) so that the holes are aligned with the M8x30 bolt and the threaded hole on the glider stopper.

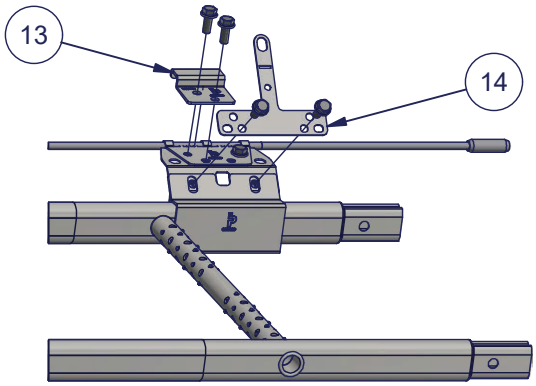


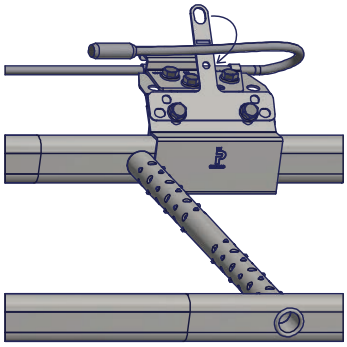
Tighten the handle (9) in it's position with M8x8 bolt on the threaded hole of the glider stopper (8).

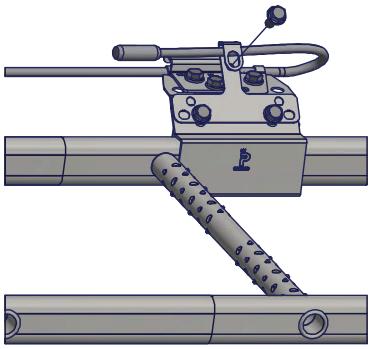


Part	Description
1	SafeLine wire holder bracket
2	Ladder fixing piece for wire holder
3	Pisko SafeLine stainless steel wire, 8mm
4	M8 serrated flange bolt 20mm, A2 stainless steel
5	M8 flange nut, A4 treated stainless steel
7	Spacer for the glider stopper
8	Glider stopper for ladder
9	Handle for the glider stopper
10	M8 flange bolt 35mm, A2 stainless steel
11	M8 nyloc nut, A2 stainless steel
12	M8 bolt 8mm, A2 stainless steel

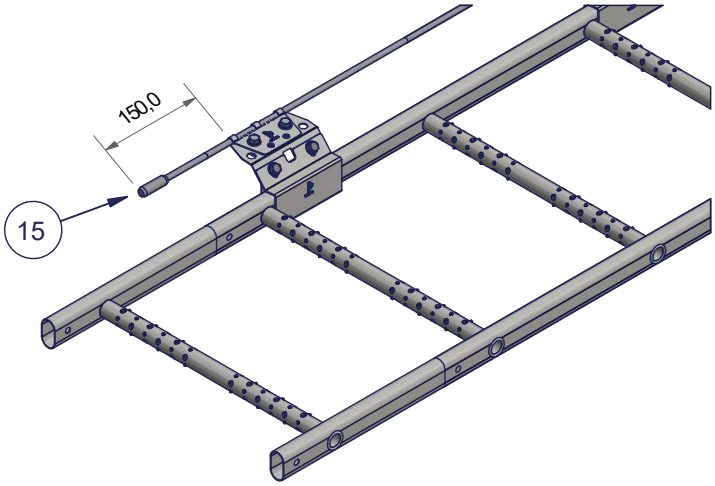
If the wire ends at the top of the ladder on danger zone, install an additional SafeLine wire holder bracket at the end of the ladder and in that bracket, install a glider end stop for wire holder bracket (13) and SafeLine wire ending bracket (14). Make sure there is roughly 400 mm of wire after the last bracket. Bend the excess wire back towards the wire holder bracket and lock it in place by bending the flange on the SafeLine wire ending bracket over the wire. Fasten the flange on the M8 thread in the wire ending bracket with a 20 mm M8 flange bolt.



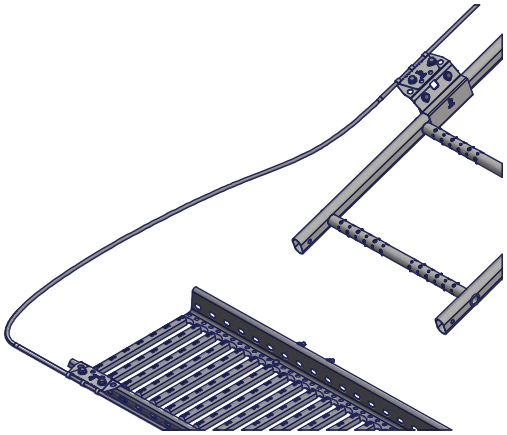




If the wire ends at the bottom of the ladder, when the ladder is in safe zone, installing the glider end stop and wire ending bracket is not mandatory. In this case, leave at least 150 mm of wire after the bottom wire holder bracket.



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 (15) by pressing or using an alternative corresponding method.



When extending the wire from a roof ladder to a wall ladder or a walkway, make sure the bend on the wire is smooth and the glider moves through the bend with ease. A bracket (1) must be installed as close as possible to the end of roof ladder and the beginning of the wall ladder or walkway, while maintaining a smooth wire curve.

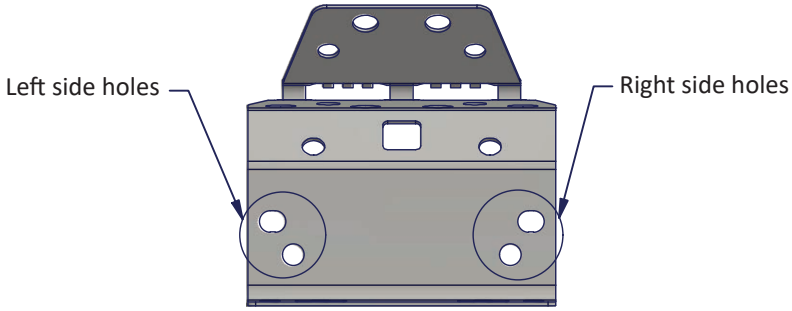
Always install the wire between the brackets as tight as possible. In time, there will be structural stretching on the wire, which will prevent the possibility of over tightening.

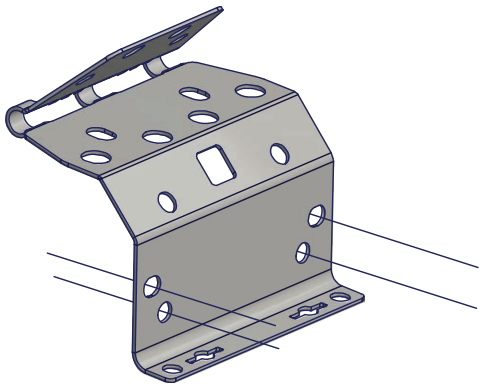
The wire can be extended with a separate crimp extension terminal or with factory-installed extension terminals. The factory-installed extension is made by twisting the male and female terminals completely into each other. The extension is easiest to make when the wire to be extended is still coiled. The crimp extension is made according to the separate installation instructions (Pisko SafeLine wire extension installation).

Part	Description
1	SafeLine wire holder bracket
2	Ladder fixing piece for wire holder
3	Pisko SafeLine stainless steel wire, 8mm
4	M8 serrated flange bolt 20mm, A2 stainless steel
5	M8 flange nut, A4 treated stainless steel
7	Spacer for the glider stopper
8	Glider stopper for ladder
9	Handle for the glider stopper
10	M8 flange bolt 30mm, A2 stainless steel
11	M8 nyloc nut, A2 stainless steel
12	M8 bolt 8mm, A2 stainless steel
13	Glider end stop for wire holder bracket
14	SafeLine wire ending bracket
15	Wire end protector

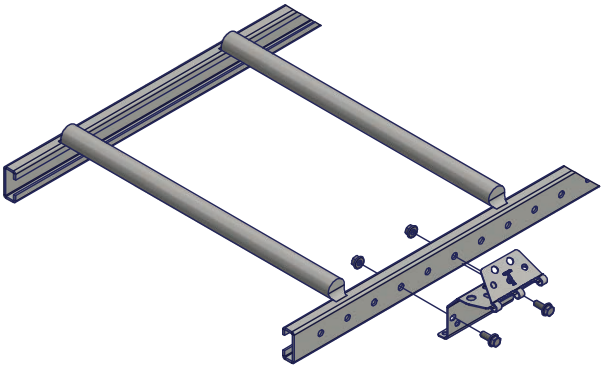
LADDERS FROM OTHER MANUFACTURERS

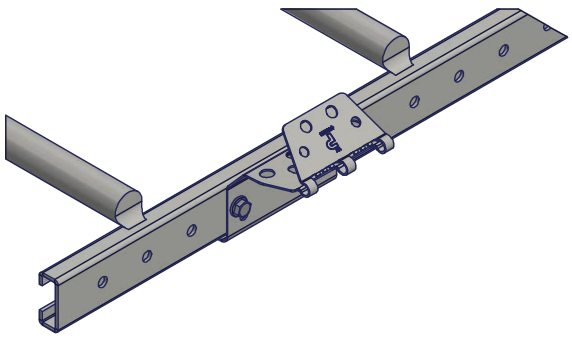
Pisko SafeLine wire holder bracket can also be installed on other than Pisko ladders, in case they are intented and tested to be suitable for use as a safety rope fixing point. On a ladder with bolt holes on the side of the stile, use at least one left side hole and one right side hole on the vertical part of the bracket and attach it directly on the stile with 8 mm flange nuts and flange bolts. Depending on the model of the stile, the bracket can be installed on the inside or the outside of the stile. The hole in the stile can be max. M10. When installing the bracket like this, a ladder fixing piece for wire holder bracket is not needed.
Otherwise follow the steps demonstrated previously in this instruction.



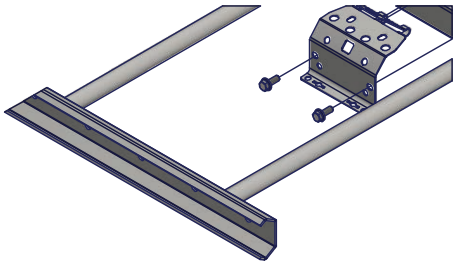


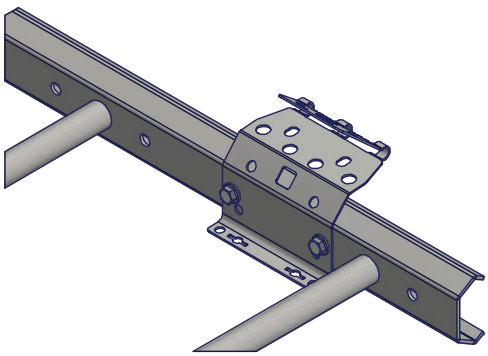
Bracket installation on a ladder which allows installation on the outside of the stile.





Bracket installation on a ladder which allows installation on the inside of the stile.





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 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