

## PISKO SAFEGRIP ROOF LADDER FOR MINERIT ROOF, 1344

Pisko roof ladders for minerit roofs are used as extensions of wall-mounted ladders and/or roof walkways to create safe access paths on a minerit roofs. It must be possible to move safely on the roof from the eaves to the ridge, chimney, sunroofs and other areas requiring maintenance. Pisko ladders have a rung width of 400 mm and rung diameter of 25 mm.

### INSTALLATION

Roof ladders must be attached to the load-bearing structures of the roof, at least at the top and bottom ends of the ladder (EN 12951, Section 5.3.1). Due to the strain created by snow loads, we recommend the use of more fastenings.

If the ladder is to be extended, the extension must be attached to the top end of the ladder. Secure the joint with M8x40 hexagon bolt and M8 hexagon nut (figure 4).

Roof ladders are fastened to minerit roofs using roof ladder fasteners for minerit roof.

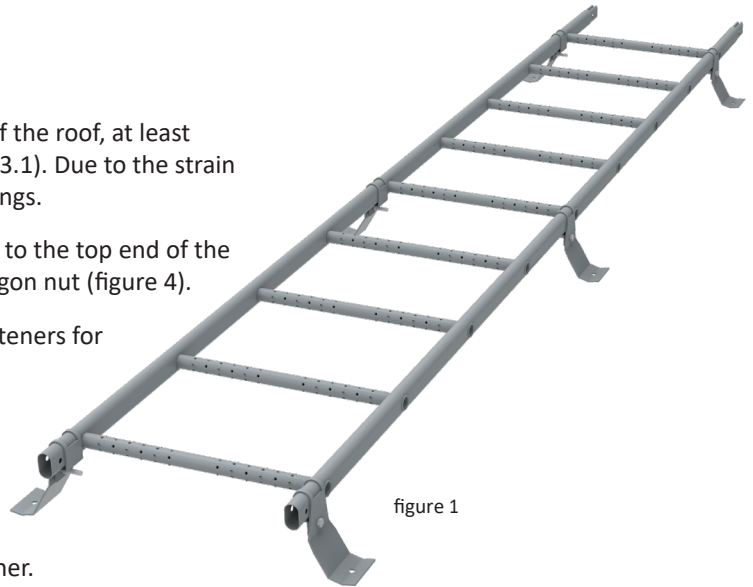


figure 1

#### Installation according to class 1:

- Fix a EPDM rubber seals to the base of the roof ladder fastener.
- Install the spacers on the ladder frame at approximately 1400 mm intervals.
- Attach the top and bottom ends of roof ladder fasteners to the battens with 7x50 mm HPAC screws. Minimum batten size is 100 x 22 mm (structural timber quality). In order to avoid fracture of the minerit sheet, pre-drill hole to the minerit sheet for screws. For class 1 installations, the top end can also be attached from beneath the ridge flashing using a ridge fastening. Attach the ridge fastening to the ladder frame with M8x40 hexagon bolt and M8 hexagon nut and to the batten with one 7x50 mm HVAC-screw.
- Finish by carefully positioning the roof ladder fasteners in their places on the battens and tighten them to the ladder frame. Attach roof ladder fasteners to the ladder frame with M8x30 hexagon bolt ja M8 hexagon nut.

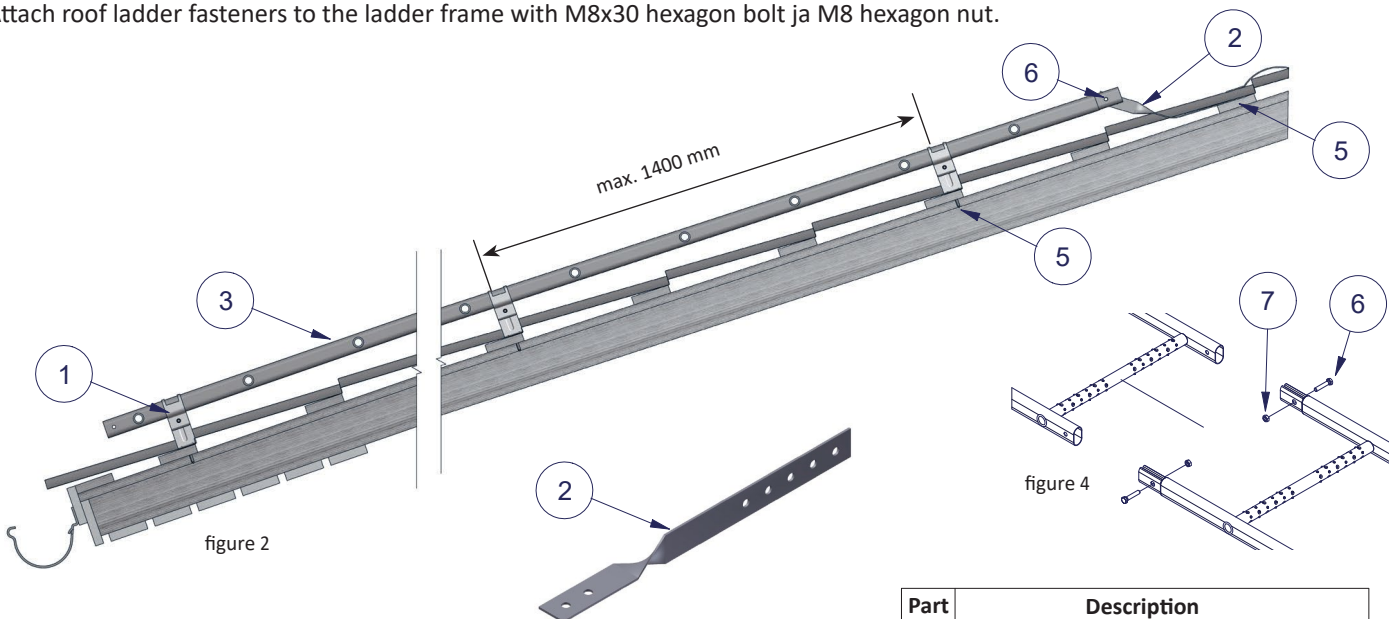


figure 2

figure 4

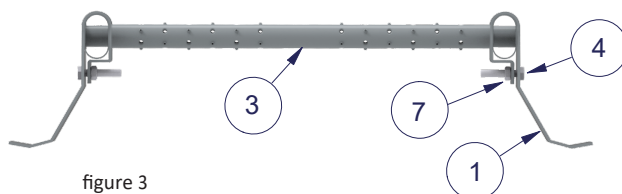


figure 3

Part	Description
1	Roof ladder fastener, minerit roof
2	Ridge fastening
3	Pisko SafeGrip ladder
4	Hexagon bolt M8x30, hot-dip galvanized
5	HVAC-screw 7x50 mm
6	Hexagon bolt M8x40, hot-dip galvanized
7	Hexagon nut M8, hot-dip galvanized

## USE

Roof ladder must be used when the roof inclination is more than 1:8. If the height of the building is more than 9 meters, safety rope fixing structures must be provided (Ministry of the Environment Decree on the safe use of buildings on January 1, 2018). Standard EN 12951 provides two installation options for roof ladders: class 1 and class 2. Using personal fall protection equipment, a person is only allowed to attach themselves to a roof ladder, which is installed in accordance with class 2.

The Pisko roof ladder for minerit roof conforms to standard EN 12951, having undergone static and dynamic tests per class 1. Roof ladder for minerit roof should not be used as fixed point for personal protective equipment.

## MAINTENANCE

As long as the Pisko products are installed in accordance with the instructions, they have a long life cycle and they are safe to use, guaranteed by the continuous quality control and R&D by Piristee Oy. In order to ensure the safe use and the long life cycle, the property owner must perform the annual inspection and maintenance procedures and ensure that the snow load is not exceeded, as specified in the regulations.

The annual inspection and maintenance areas for the Pisko products:

- Check the tightness of the joints and points of attachment.
- Check the fastenings in the roof.
- Remove the excessive snow load in order to minimize the stress on structures and points of attachment (as necessary, several times during winter). As necessary, remove snow and ice from the floor bridges.
- Check the the painted and galvanized product surfaces and, as necessary, repair local damages and perform touch-up painting.
- Replace or repair any damaged or faulty parts as soon as possible.


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<b>EN 12951</b> Pisko SafeGrip roof ladder for minerit roof, 1344 TB <b>Mechanical strength:</b> Class 1 <b>Fire safety:</b> Class A1 <b>Durability:</b> Z275 + powder coating 80µm <b>Resistance to external fire:</b> Estimated to meet the requirement