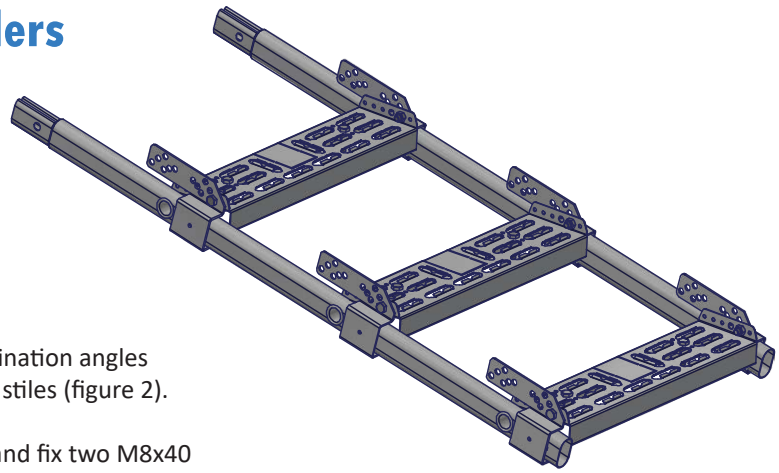
Pisko® ladder step for roof ladders



INSTALLATION

Ladder steps for roof ladders can be used at 9°- 45° roof inclination angles (figure 1). Fastening is done with side fixing pieces to ladder stiles (figure 2).

Start installation by assembling ladder step round the rung and fix two M8x40 heagon bolts (figure 5). After that install the side fixing pieces around the rungs, first placing the lower edge of the fixing piece under the rung and then turning the perforated part against the ladder step. The distance between the fixing piece and the riveted end of the rung is 1-2 mm. The appropriate angle is adjusted with M8x16 hexagon bolts. If there is ladder fastener or MultiFast stile fastener under the rung, ladder steps can be assembled 180° around crosswise above the rung (figure 3). In this case use holes that are at the tip of the fixing pieces.

If roof ladder is assembled with central fastener, cut the center part of the step that is held by micro joints and paint the cutted spots (figure 4).

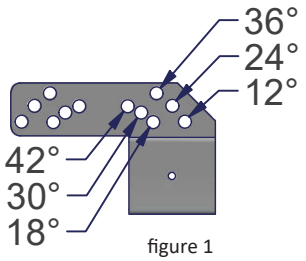


figure 1

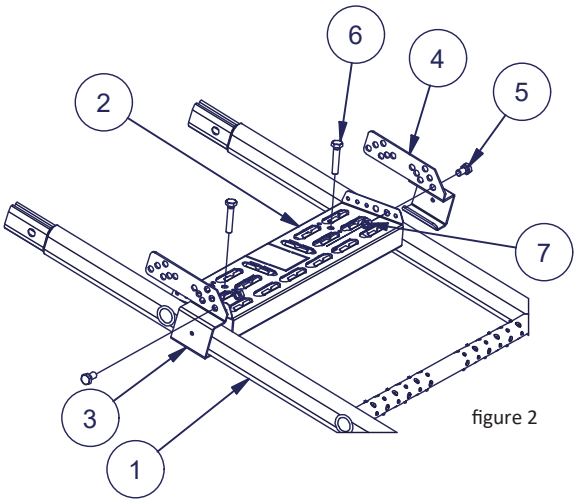


figure 2

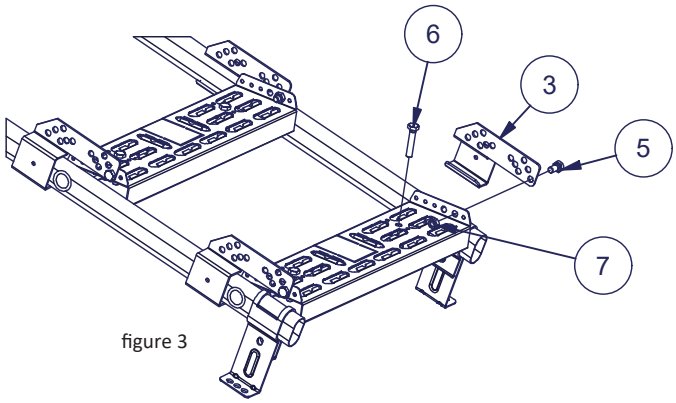


figure 3

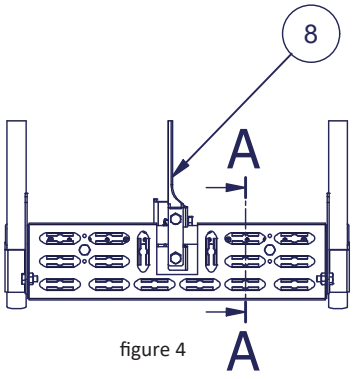


figure 4

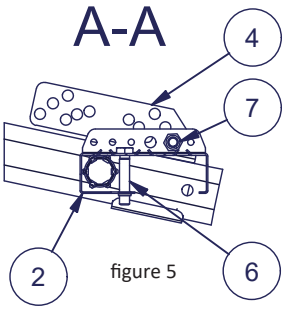


figure 5

Part	Description
1	Pisko SafeGrip ladder
2	Ladder step for roof ladders
3	Left side fixing piece for ladder step
4	Right side fixing piece for ladder step
5	Hexagon bolt M8x16, HDG
6	Hexagon bolt M8x40, HDG
7	Hexagon nut M8, HDG
8	Roof ladder central fastener, Pisko UniSeam
9	Self drilling screw 4,8 x 19 mm

USE

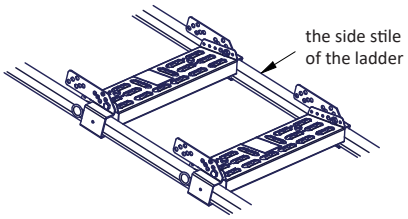
Roof ladder must be used when the roof inclination is more than 1:8. If the height of the building is more than 9 meters, safety rope fixing structures must be provided (Ministry of the Environment Decree on the safe use of buildings on January 1, 2018). Standard EN 12951 provides two installation options 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.

Roof treads (roof ladder steps) are recommended for roofs with an inclination of ≤ 1:3 (≤18.4°) (TR 85-11132). In practice, steps usually improve the user experience even with inclination steeper than this recommendation, up to a 1:1 inclination.

Pisko ladder step for roof ladder complies with EN 12951 class 1. Pisko ladder step alone should not be used as a fixing point for personal protective equipment. Safety rope can be fixed to the side stile of the roof ladder, which is installed in accordance with class 2 or to the Pisko SafeLine wire system installed on the roof ladder. Pisko SafeGrip roof ladder has been dimensioned against 1,5 kN (~150 kg) concentrated load (load from the user).

When using a ladder as a fixing point for safety rope, the following must be taken into account:

- Only safety ropes (e.g. EN 353-2) or retractable lanyards (EN 360) that are meant to be used as a personal fall protection equipment should be used
- The recommended safety rope fixing point is the side stile of the ladder
- Only one person at a time, with a total weight of max. 100 kg, including the equipment, is allowed to fix a safety rope to the roof ladder.
- The safety rope must be fixed to the roof ladder only in the space between the roof ladder fasteners, that connect the ladder to the roof structure.
- The safety rope shall never be fixed to the support foots of the ladder
- The safety rope may only be used towards the eave on the pitched roof area where the roof ladder is installed.



MAINTENANCE

Pisko products are hard-wearing and safe to use, guaranteed by the ongoing quality control and development work by Piristeel Ltd, as well as correct installation of the products according to the manufacturer's instructions. To ensure the reliability and safety of the products, the property owner must carry out yearly inspection and maintenance procedures, and monitor that the snow load specified by the regulations is not exceeded.

Yearly maintenance inspection checklist for Pisko products:

- Check the tightness of joints, connections and attachments.
- Check the roof attachments (fixings).
- Ensure any excessive snow load is cleared to minimize the strain on structures and attachment points (as necessary; there might be a need several times during the winter).
- As necessary, clear the roof ladders of snow and ice.
- Check the paintwork and zinc coating of the products; repair faults and touch up paintwork if necessary
- Replace or repair any damaged or faulty parts as soon as possible.

CE

Piristeel Oy

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EN 12951

Pisko ladder step for roof ladders
1382

TB

Mechanical strength: Class 1

Reaction to fire: A1

Durability: Z275 + powder coating 80 µm

External fire performance: DTS