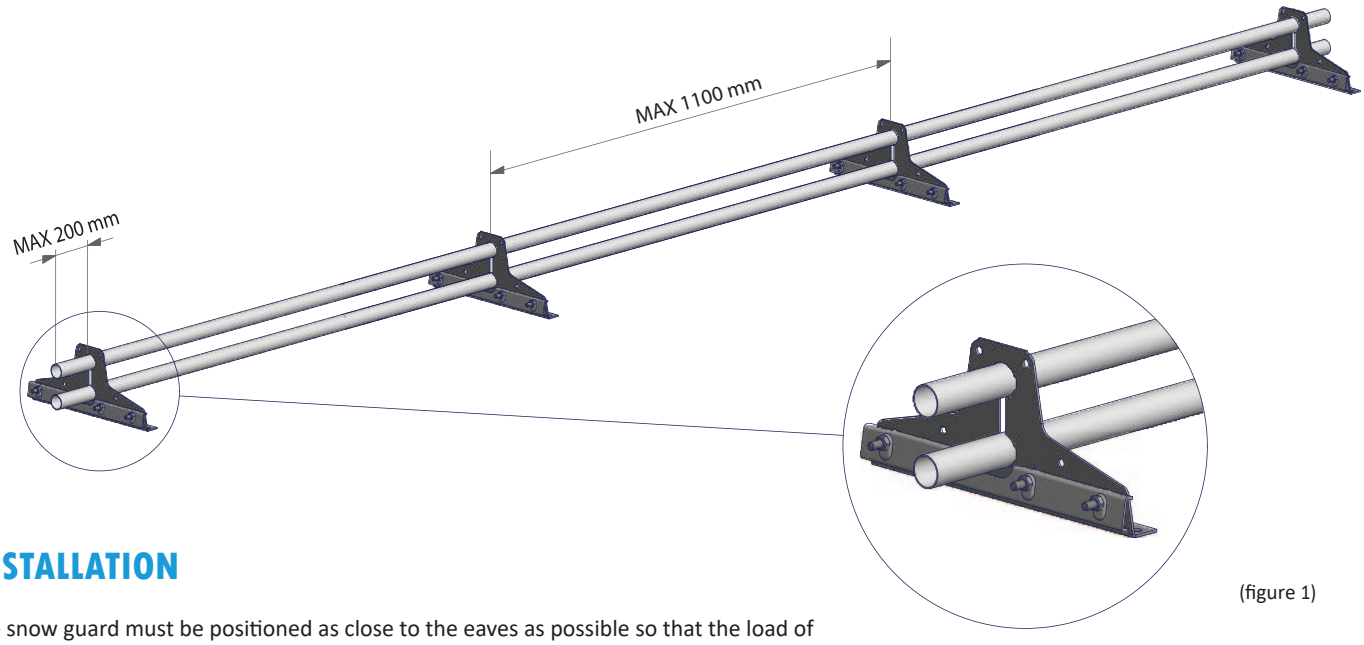
# PISKO SNOW GUARD FOR STANDING SEAM ROOF




(figure 1)

## INSTALLATION

The snow guard must be positioned as close to the eaves as possible so that the load of the snow is directed towards load-bearing structures.

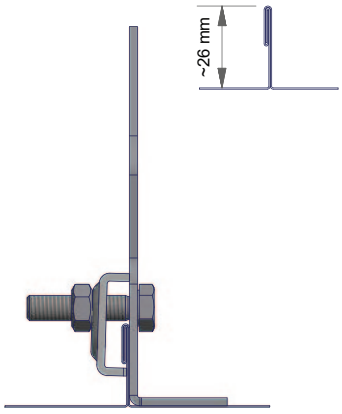
The roof bracket shall be installed directly to the standing seam with crimped connection. Install the bracket to the roof by using 4 pcs of M8x30 hexagon bolts and 4 pcs of M8 hexagon nuts. Correct position of the roof bracket and the Classic striking plate are shown in figure 2.

Slide the snow guard pipes through the round holes of the roof brackets and secure the pipes in place by pipe fixing screws through the pipes, next to the outmost brackets.

The extensions of the snow guard pipes shall be done by sliding the pipe end with solid reducer inside the adjacent non-reduced pipe.

The distance between the adjacent roof brackets shall not be more than 1100 mm.

The edges of the snow guard pipes shall not outreach the closest roof bracket by more than 200 mm (figure 1).




(figure 2)

| Part list |
|---|
| LE SK 350 |
| Striking plate standing seam |
| M8x30 hexagon bolt [4 pcs / fastener] |
| M8 Hexagon nut [4 pcs / fastener] |
| Snow guard pipe 32 mm / length mm |
| Pipe fixing screw, e.g. 4,8x25 self-tapping farmer screw or 4,8x19 self drilling screw |

## 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.

- Check the tightness of joints, connections and attachments.
- 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). Product durability in accordance with the certification certificate.
- 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.

## MAXIMUM LENGTH OF ROOF SLOPE (RT Reference Card 85-11132)

Indicative figures for the maximum distance (m) of the roof slope above the snow guard on a smooth surface. The maximum distance on coarse roofs, such as bitumen roofs can be increased by 1.3 – 1.5 times the stated amount. The snow load values shown are the actual snow loads on a roof.

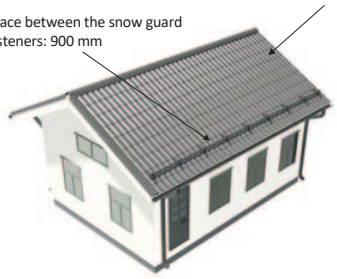
| Roof's inclination angle (°) and snow ratio (the ratio of the slope to the horizontal width of the roof pane) | **Maximum length of slope above the snow guards** | | | | | |
|---|---|---|---|---|---|---|
| The characteristic value of the snow load on the roof: 1,8 kN /m² | | | | | | |
| Space between the snow guard fasteners | 0,5 m | 0,6 m | 0,75 m | 0,9 m | 1,0 m | 1,2 m |
| Roof's inclination angle and snow ratio | | | | | | |
| < 15°, (1:3,7) | 21,4 | 17,9 | 14,3 | 12,0 | 10,7 | 9,0 |
| 15... 22°, 1:3,7... 1:2,5 | 11,4 | 9,5 | 7,6 | 6,3 | 5,7 | 4,8 |
| 22... 27°, 1:2,5... 1:2 | 8,4 | 7,0 | 5,6 | 4,7 | 4,2 | 3,5 |
| 27... 37°, 1:2... 1:1,3 | 7,4 | 6,2 | 4,9 | 4,1 | 3,7 | 3,1 |
| 37... 45°, 1:1,3... 1:1 | 9,0 | 7,5 | 5,9 | 5,0 | 4,5 | 3,7 |
| The characteristic value of the snow load on the roof: 2,0 kN /m² | | | | | | |
| Space between the snow guard fasteners | 0,5 m | 0,6 m | 0,75 m | 0,9 m | 1,0 m | 1,2 m |
| Roof's inclination angle and snow ratio | | | | | | |
| < 15°, (1:3,7) | 19,1 | 16,1 | 12,9 | 10,8 | 9,6 | 8,1 |
| 15... 22°, 1:3,7... 1:2,5 | 10,2 | 8,6 | 6,9 | 5,7 | 5,1 | 4,3 |
| 22... 27°, 1:2,5... 1:2 | 7,6 | 6,3 | 5,1 | 4,2 | 3,8 | 3,2 |
| 27... 37°, 1:2... 1:1,3 | 6,7 | 5,6 | 4,4 | 3,7 | 3,3 | 2,8 |
| 37... 45°, 1:1,3... 1:1 | 8,2 | 6,8 | 5,3 | 4,5 | 4,1 | 3,3 |
| The characteristic value of the snow load on the roof: 2,6 kN /m² | | | | | | |
| Space between the snow guard fasteners | 0,5 m | 0,6 m | 0,75 m | 0,9 m | 1,0 m | 1,2 m |
| Roof's inclination angle and snow ratio | | | | | | |
| < 15°, (1:3,7) | 15,0 | 12,5 | 9,9 | 8,3 | 7,5 | 6,2 |
| 15... 22°, 1:3,7... 1:2,5 | 8,0 | 6,6 | 5,3 | 4,4 | 4,0 | 3,3 |
| 22... 27°, 1:2,5... 1:2 | 5,8 | 4,8 | 3,9 | 3,3 | 2,9 | 2,4 |
| 27... 37°, 1:2... 1:1,3 | 5,2 | 4,3 | 3,4 | 2,8 | 2,6 | 2,1 |
| 37... 45°, 1:1,3... 1:1 | 6,2 | 5,2 | 4,1 | 3,5 | 3,1 | 2,6 |

PICTURED IS AN EXAMPLE OF SNOW GUARDS BEING USED ACCORDING TO THE TABLE.

Maximum length of the slope above the snow guards: 4,7 m

Roof angle 25°
Snow load 1,8 kN/m²

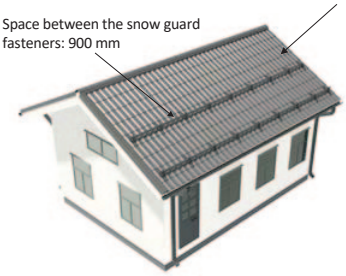
Space between the snow guard fasteners: 900 mm



Maximum length of the slope above the snow guards: 3,3 m

Roof angle 25°
Snow load 2,6 kN/m²

Space between the snow guard fasteners: 900 mm



Pisko Snow Guards are capable of bearing a load of at least 5 kN/m, in the direction of the inclined roof. By following the values in the table these requirements are fulfilled.

RAKENTAMINEN eurofins VARMENNUSTODISTUS

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| | |
|---|---|
| Product | Pisko snow guards |
| Intended Purpose | A roof safety product – The snow guards are used for preventing snow and ice falling from the roof. |
| Performance levels | |
| 1. Minimum height | Declared |
| 2. Extensions | Fixed |
| 3. Static load-bearing capacity | With a 1.5-kN concentrated load and a 5-kN load in the inclination direction of the pitched roof area, the deflection is less than 20 mm and the permanent deflection less than 5 mm. |
| 4. Corrosion resistance | Corrosion resistance class C3 medium |