

## Pisko SnowDefence 300 Solar snow fence for standing seam roof

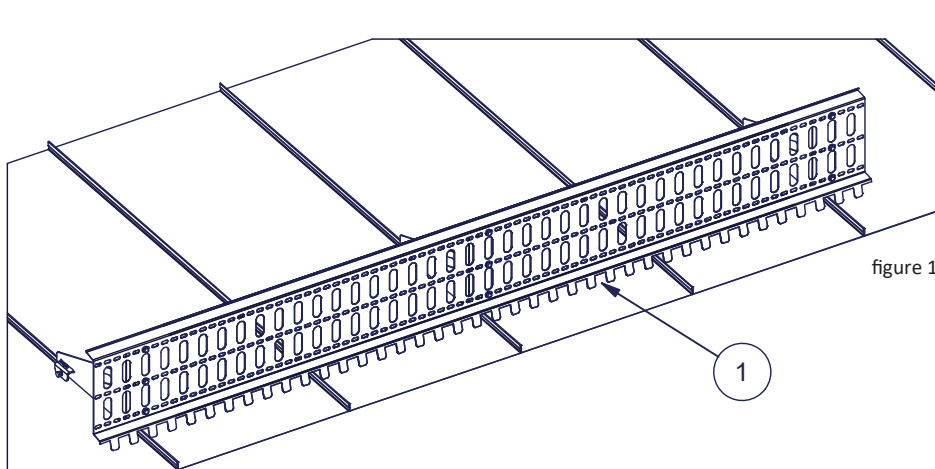


figure 1

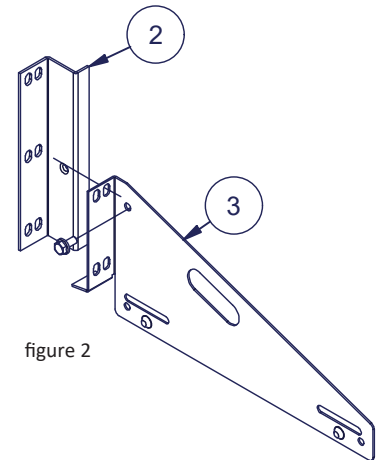


figure 2

### INSTALLATION

Snow guards are placed as close to the eaves as possible. Install adapter bracket to the roof fasteners using flange screws (Figure 2). Snow fence brackets are installed on the roof seams with the SG Tightening clamps (Figure 3).

The snow fence profile is placed on the auxiliary platform of the fasteners and mounted in place using M8x16 mm flange bolts and M8 flange nuts (Figure 4) or with washers with at least the same surface area and M8 hexagon nuts and hexagon screws. The oval holes in the snow fence bracket allow the height of the snow fence profile to be adjusted. If the anti-slide tabs at the bottom of the snow fence profile hit the seam of the roof, they can be bent upwards with pliers.

The snow fence profile is extended by overlapping the snow fence by at least 80 mm. The joint is locked in with six M8x16 mm flange bolts and M8 flange nuts (Figure 5).

Max. protrusion of the fence from the outermost bracket is 200 mm.  
Distance between snow fence brackets on a standing seam roof is max. 1100 mm.

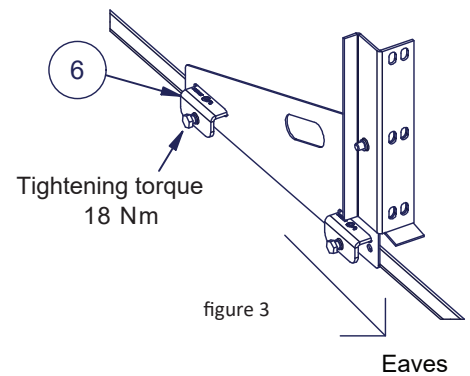


figure 3

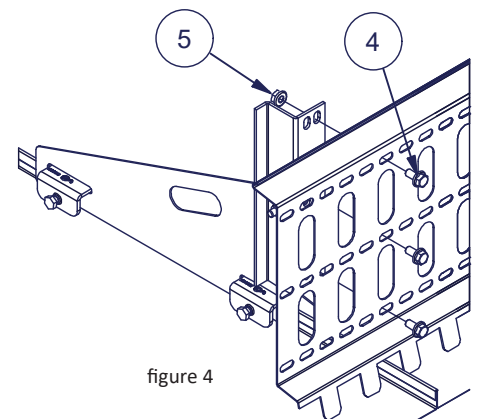


figure 4

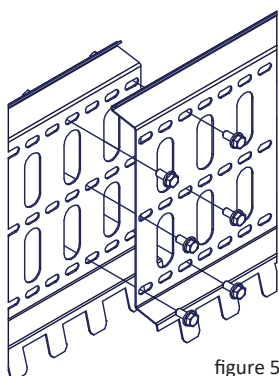


figure 5

| Part | Description   |
|------|---|
| 1    | Pisko SnowDefence 300 Solar snow fence profile (762)    |
| 2    | Pisko SnowDefence 300 Solar adapter bracket (763)       |
| 3    | Pisko SnowDefence 200 heavy, roof bracket UniSeam (761) |
| 4    | Flange Bolt DIN 6921 - M8 x 16 * (731)                  |
| 5    | Flange Nut DIN 6923 - M8 * (734)                        |
| 6    | SG Tightening clamp, Pisko Uniseam (671)                |

\*) HDG or equal corrosion protection

## MAXIMUM LENGTH OF ROOF SLOPE (RT Reference Card 85-11132) Finnish national snow load guidelines

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<br>(the ratio of the slope to the horizontal<br>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/m <sup>2</sup>  |   |       |        |       |       |       |
| 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/m <sup>2</sup>  |   |       |        |       |       |       |
| 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/m <sup>2</sup>  |   |       |        |       |       |       |
| 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/m<sup>2</sup>

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/m<sup>2</sup>

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.

## MAINTENANCE

Pisko products are hard-wearing and safe to use, guaranteed by the ongoing quality control and development work by Piristee 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 make sure that excessive snow load does not accumulate on the roof.

### Yearly maintenance inspection checklist for Pisko snow guards:

- Check the tightness of joints, connections and attachments.
- Check fixings to the roof
- Take care to regularly clean the accumulated debris and dirt in the snow guard (such as leaves)
- Ensure any excessive snow load is cleared to minimize the strain on structures and attachment points of snow guard (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.