

Snow guard for snap-lock standing seam roofs with under 33 mm seams

1. Planning the location

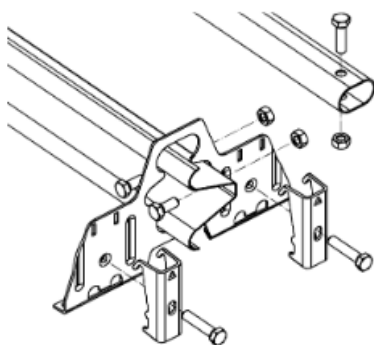
- Entrances and accessways as well as play and recreational areas used during winter must be protected from snow and ice falling from the roof. This regulation also applies to the streets and other public areas surrounding the building.
- When the slope of the roof is steeper than 1:8, snow guards are used for protection.
- The snow guard should always be installed over the entire length of the eaves. It should not be used as short sections over the entrances only, for example. If this is necessary, however, two rows of snow guards must be used if the length of the roof plane above the snow guard is more than 4 metres.
- Snow must always be prevented from falling from one roof plane to another as well (RT instruction card 85-11132).
- The snow guard is installed as close to the side eaves as possible, considering the existing structures. In the case of excessively long eaves, the transfer of snow load on load-bearing structures must be confirmed with a structural designer, for example.

2. Dimensioning of snow guards

Maximum roof plane length above the snow guard (m)						
Angle (°) and slope ratio of the roof	Distance between snow guard fixtures (m)					
Snow load on the roof 1.8 kN/m ² (2.6 kN/m ²)						
	0.5 m	0.6 m	0.75 m	0.9 m	1.0 m	1.2 m
< 15°, (1:3.7)	21.4 (15.0)	17.9 (12.5)	14.3 (9.9)	12.0 (8.3)	10.7 (7.4)	9.0 (6.2)
15...22°, 1:3.7...1:2.5	11.4 (8.0)	9.5 (6.6)	7.6 (5.3)	6.3 (4.4)	5.7 (4.0)	4.8 (3.3)
22...27°, 1:2.5...1:2	8.4 (5.8)	7.0 (4.8)	5.6 (3.9)	4.7 (3.3)	4.2 (2.9)	3.5 (2.4)
27...37°, 1:2...1:1.3	7.4 (5.2)	6.2 (4.3)	4.9 (3.4)	4.1 (2.8)	3.7 (2.6)	3.1 (2.1)
37...45°, 1:1.3...1:1	9.0 (6.2)	7.5 (5.2)	5.9 (4.1)	5.0 (3.5)	4.5 (3.1)	3.7 (2.6)

If this load is exceeded, the snow load on the roof must be reduced.

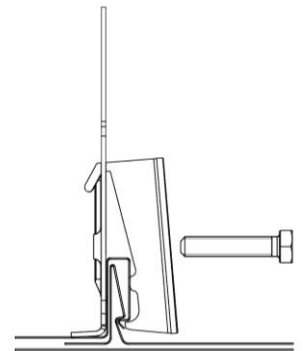
3. Snow guard and package contents



No.	Product	Pcs.
1.	Oval tube, length 3.0 m	–
2.	LP3 profile, length 3.0 m	–
3.	L2 Snap-lock standing seam fixture	4
4.	Counter fixture SK Snap-lock standing seam	8
5.	Hexagonal screw M8 x 30 mm	2
6.	Hexagonal screw M8 x 40 mm	8
7.	Nut M8	10
8.	Self-drilling screw 6.3 x 19 mm	2

4. Installation order

1. Plan the placement.
2. Ensure that there are roof battens under the fixtures. Closed boarding is recommended under the snow guard. Check also that the roofing has been attached according to the installation instructions.
3. Calculate the fixture distances according to the recommendation of the snow guard table. An interval of approximately 0.95 m is used commonly with snap-lock standing seam roofs.
4. Mark the locations of the snow guards (using a chalk line, for example) and make sure that the fixtures are in line.
5. Attach the fixtures one by one. Always place the larger fixture (3.) on the straight side of the seam so that the fixture stands vertical. Correspondingly, the U-shaped counter pieces (4.) are placed on the overturned seam side. Ensure that the knots of the counter pieces are placed in the seam as shown in the figure. The counter pieces are in the correct position when the marker hole is facing upwards. Use two counter pieces for each fixture. Tighten the counter pieces with M8 x 40 mm hexagonal screws. The tightness of the bolts is correct when the counter piece begins to bend at the bolt's location. Additional tightening does not help after this.
6. Place the snow guard tubes/Pyry profile in their places. In the profile, point A faces the ridge. The tubes/profiles closest to the ends may exceed the last fixture by maximum 100 mm.
7. Snow guard tubes can be extended by pushing the tapered end into the other tube and locking the connection with an M8 x 30 mm hexagonal screw and an M8 nut. Sideways movement is prevented by placing M8 x 30 mm hexagonal screws and M8 nuts at the ends.



Snow guard profile Pyry can be extended by overlapping the profile over a distance of approximately 80 mm and locking the connection with two M8 x 30 mm hexagonal screws and M8 nuts. Sideways movement of the snow guard profiles is prevented by placing M8 x 30 mm hexagonal screws and M8 nuts at the ends. If the snow guard profile is cut in the middle, the hexagonal screw can be replaced by locking the cut end with a 6.3 x 19 mm self-drilling screw.

