Product Card - **skylight profile**

SPR-SKY

THE POWER OF ROOFS

BP2

Product Card

SPR-SKY Skylight profile

SPR-SKY

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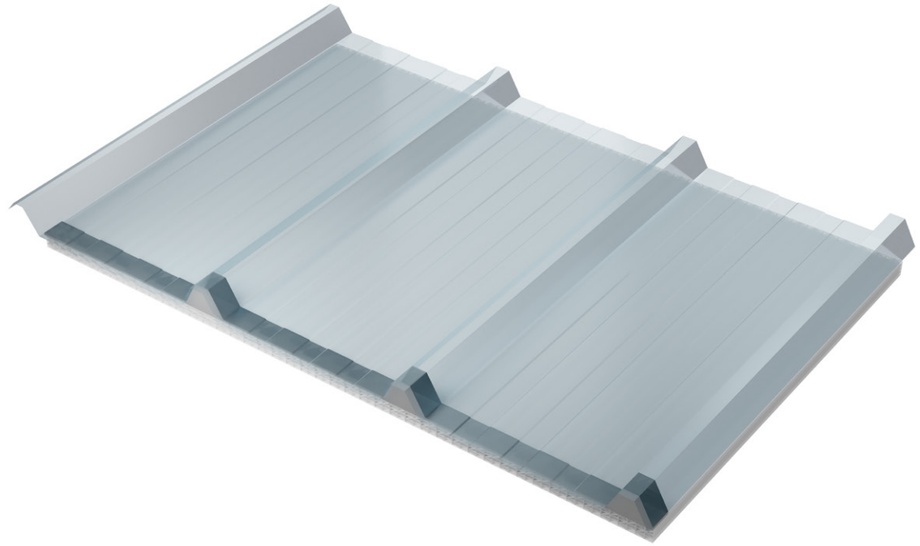
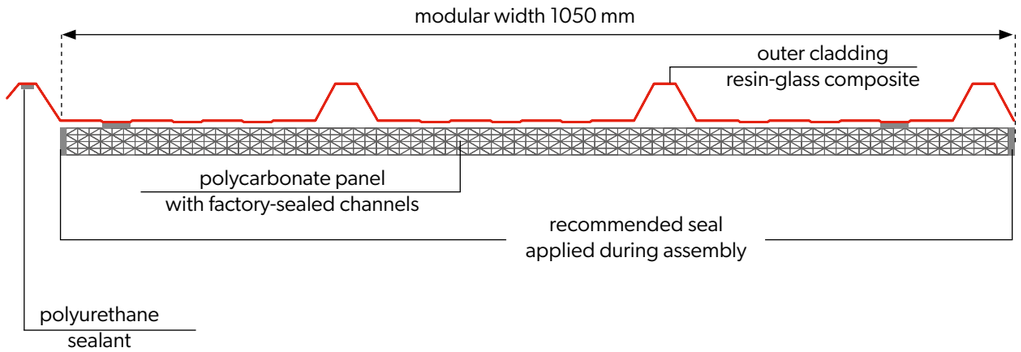
The SPR-SKY skylight constitutes a unique solution combining high levels of mechanical, aesthetic, and thermal properties. The view and cross-section of the skylight are presented in Figure 1.
The combination of resin-glass composite fitted to match the shape of the roofing material together with polycarbonate constitutes the perfect solution allowing for a warm illumination of roofs made of sandwich panels. The resin-glass composite used in SPR-SKY skylights is made from two layers of resin, where the outer layer is made on the basis of a gelcoat that is resistant to external conditions and especially to UV radiation.

Technical information

fig. 1

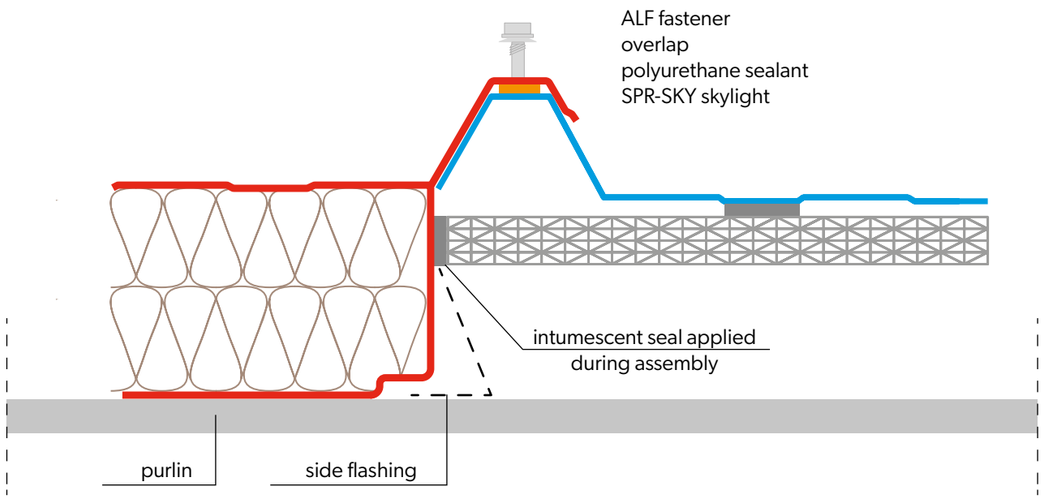


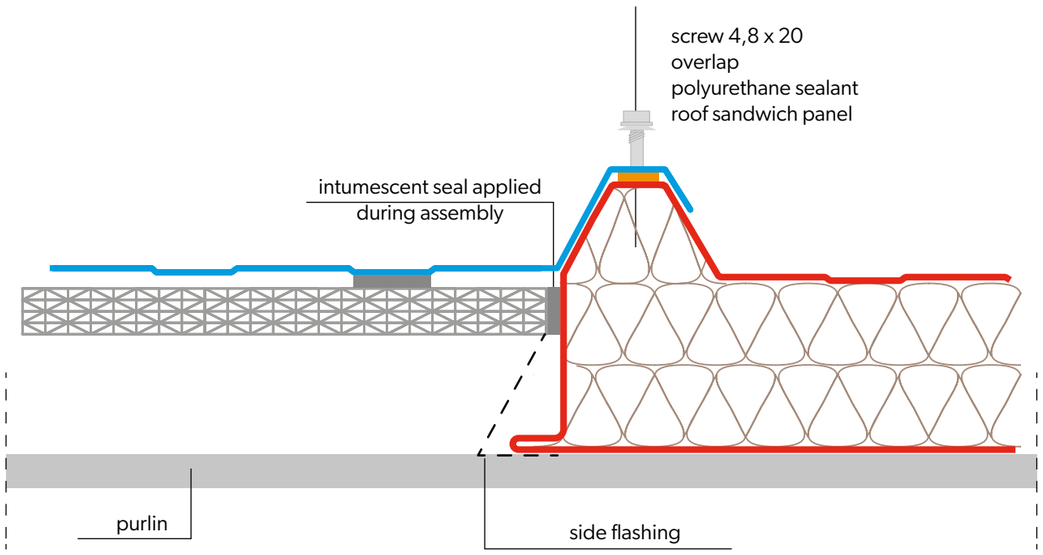


Construction of the SPR-SKY skylight.

Diagram for connecting with sandwich panels

fig. 2





Technical specifications

Parameters	Value
Material	**Resin-glass composite combined with 25 mm or 32 mm polycarbonate**
Modular width	**1050 mm**
Length of opening	**7.0 m (maximum cladding length 7.2 m)** **It is allowed to combine skylights at length directly on site**
Recommended minimum roof pitch	**10% (at 20 cm overlap)**
Maximum support spacing	**1,5 m**
Thickness	**Polycarbonate 25 mm - 30 mm + hump height** **Polycarbonate 32 mm - 35 mm + hump height**
Weight	**5,9 kg ± 5%**
Acceptable dimensional deviations in length, width, and thickness of skylight elements	**± 5%**
Heat penetration coefficient	**U = 1.5 W/m²K with 25 mm polycarbonate** **U = 1.1 W/m²K with 32 mm polycarbonate**
Light penetration	**50% ± 5%**

Using the SPR-SKY skylight

Using the SPR-SKY skylight constitutes an effective solution for providing daylight into a building. It can replace electrical lighting already at a roof coverage of between 7 and 15%. The chambered structure of the skylight limits an excessive increase of temperature caused by solar radiation as well as minimizes the loss of heat from inside the building.
Skylights can be used in industrial buildings with so-called sloping roofs, i.e. roofs with an angle of inclination greater than 10% in the form of performing a warm sandwich panel covering.
The SPR-SKY skylight can be installed as a spot skylight or a covering light strip from ridge to eave, at the centre of the roof, by the ridge, from the centre of the roof to the eave. The SPR-SKY skylights connect to the sandwich panels via side joints (at the humps) and end joints (overlapping). However, the thickness of the skylight cladding is 3-4 times greater than the thickness of the outer panel cladding. This means that at the overlap joints between the skylight cladding and the panel, they do not adhere perfectly and therefore, particular attention must be paid to sealing these joints during design and installation. It should also be borne in mind that skylights are not as durable as the adjacent cladding made of sandwich panels, and that is why the assembly must be carried out in accordance with construction regulations and the rules of the art in order to ensure durability and tightness.

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