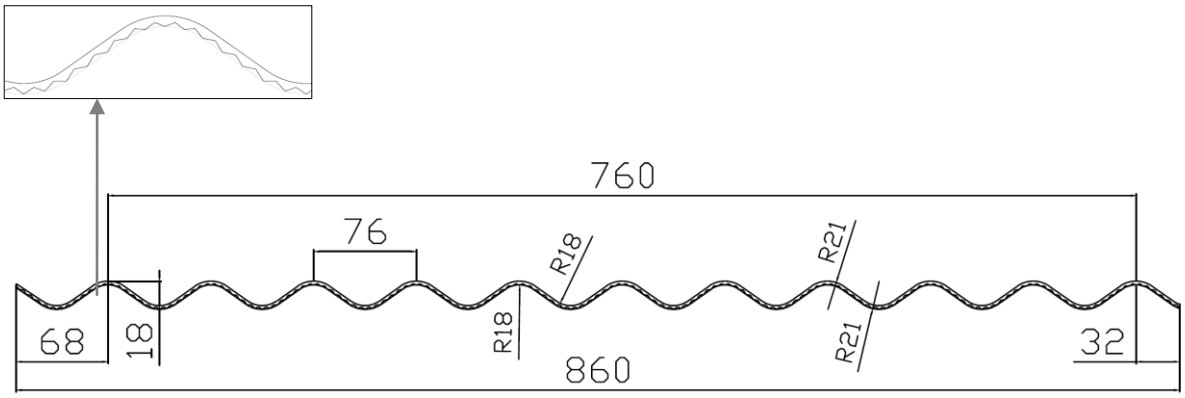
SUNTUF® Rooflights Technical Guide

Profile: BH (Iron 76/18)

09/08/2017

Profile Drawing



Profile Dimensions

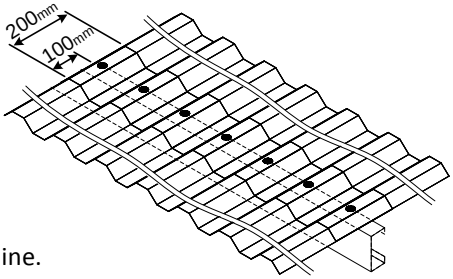
Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
76 / 18	2.8	1.5 - 7	860	760	11.6

Load / Span Data

Load (kg/m^2)	Maximum Roof Span (mm)
	2.8 mm
50	1400
75	1300
100	1200
125	1175
150	1150
175	1125
200	1100

- The specified dimensions do not supersede the requirements of local construction codes.
- The given spans are according to deflections criterion of L/20, and minimum slope of 10%.
- The maximum roof spans are based on calculation model and practical testing.
- The mentioned load refers to wind and snow load only.
- For vertical application spans can be increased by 10%.

Panel Length



- Maximum recommended panel length - 7.0 m.
- Recommended longitude overlap of 200mm above purlin.
- Each panel to extend 100mm over the fixings line on the purlin.
- Panels should overhang Min. 50mm and Max. 150mm beyond the last fixings line.

Curved Roof

- Minimum curving radius 7.0 m.

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Positioning

- Make sure the UV protected side faces out.
- Apply one corrugation side-lap. Two corrugations side-lap is recommended for low roof slope and/or high wind areas.
- Side-lap of SUNTUF panels should be installed against the primary direction of rain.
- The SUNTUF panels should be placed and installed without any stresses.
  Do not pull, stretch or force the sheets when the profiles are not perfectly matched.

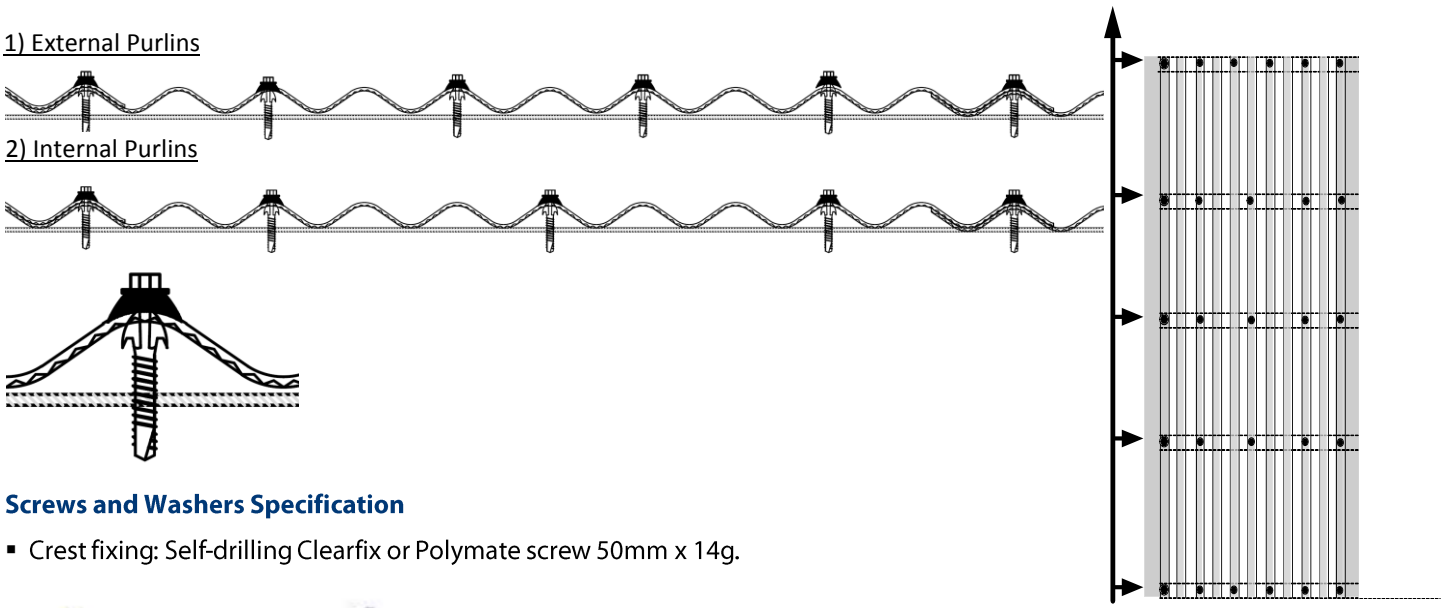
Sealing - Recommended

- Apply sealing tape over the SUNTUF panel side-lap corrugation crests, where covered by the next panel.
- Apply sealing tape along the bottom and top End-lap (if there is), 2 cm down slope screws centerline or two tapes on both sides of screw centerline.

Fastening

- When not using Clearfix or Polymax screws, Pre-drill 10mm holes at crests where screws are positioned.
- Start fastening the screws from the first lateral corrugation through the pre-drilled holes.
- Start fastening the screws on the lower edge purlin (End-lap), through every other corrugation crest (1).
- Fasten screws at the internal purlins, as shown in drawing (2), starting at the same side.
- Fasten screws at the upper edge purlin, through every other corrugation crest, starting at the same side (1).
- **Do not over-tighten!**

Fastening Location



Screws and Washers Specification

- Crest fixing: Self-drilling Clearfix or Polymate screw 50mm x 14g.

Polymate Screw **Clearfix Screw Screw**

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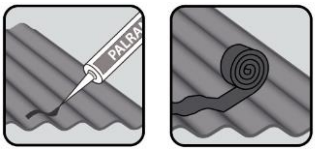
Screws and Washers Specification-When not using Clearfix or Polymate screws

- Crest fixing: Self-drilling 6.5mm (¼") x 50mm (2") screw with 19/25mm diameter- galvanized / Aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
- In areas with strong winds, when roof slope is low use storm washer with EPDM gasket.

Important Notes

- Use only PALRAM approved accessories, including EPDM rubber washers, silicones, sealing tape, closure fixtures etc.
- For clear SUNTUF onto wooden purlins, apply white acrylic paint, or aluminum tape, in order to prevent over-heating of the purlins.

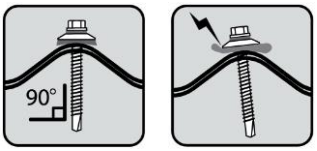


Cutting Tips

- Use jigsaw or circular saw with fine tooth blades.
- Apply high blade speed with moderate feeding rate.
- Support the sheets near the cutting line.
- Clean the dust and cutting chips after cutting.

Fastening Tips

- Use adjustable electric screwdriver.
- The screw must be installed perpendicular to the SUNTUF sheet.
- **Important: Do not over-tighten.**

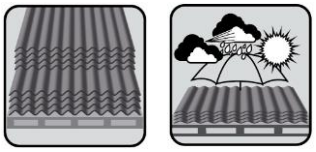


Safety

- Do not step directly on the panel.
- Use stepping boards.
- Work according to local safety regulations.

Handling and Storage

- Store in a dry shaded place, protect from direct sunlight and rain.
- Avoid covering the sheets with heat absorbing materials.
- Avoid contact or environment of chemicals.
- Protect the sheets from any physical damage.



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