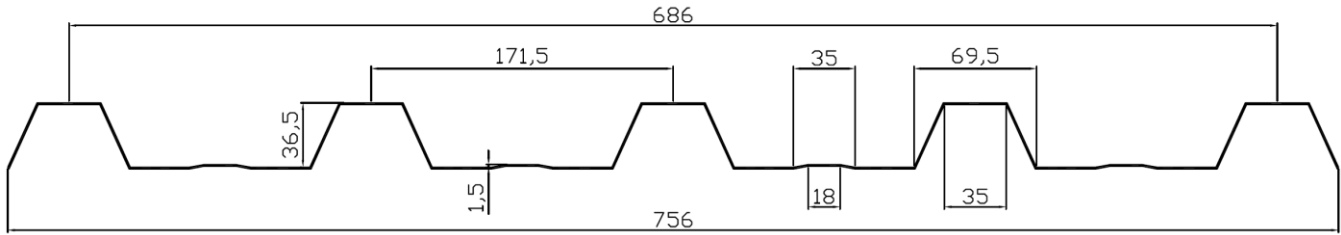


# SUNTUF® Rooflights Technical Guide

## Profile: 6500 IBR 0.8-1.25mm



### Profile Drawing



- SUNTUF Co-extruded UV protection on one side.
- SUNTUF UV2 Co-extruded UV protection on two sides.

### Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
171.5 / 36.5	0.8 – 2.0	1.5 - 11.8	756	686	9.3

### Load / Span Data

Load (kg/m <sup>2</sup> )	Maximum Roof Span (mm)					
	0.8 mm		1.0 mm		1.25 mm	
	Mid Field	End Field	Mid Field	End Field	Mid Field	End Field
50	1750	1310	1900	1425	2050	1540
75	1500	1125	1650	1240	1750	1310
100	1400	1050	1500	1125	1600	1200
125	1300	975	1400	1050	1500	1125
150	1200	900	1300	975	1400	1050

- The specified dimensions do not supersede the requirements of local construction codes.
- The maximum purlin spans are based on continuous beam calculation model and practical testing.
- The criterion for allowed deflections is L/20.
- The mentioned load refers to both wind and snow loads.
- Minimum recommended slope – 10%.

$$Q \text{ Kg/m}^2 = \frac{V^2 \text{ M/sec.}}{16}$$

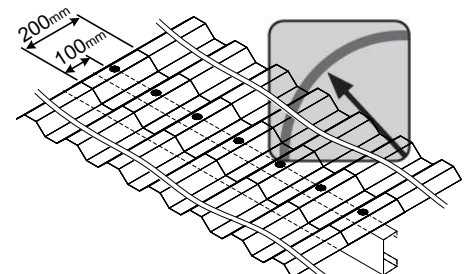
$$V \text{ M/sec} = \frac{V \text{ Km/h} \times 1000}{3600}$$

e.g.: winds of 100km/h =

$$27 \text{ m/sec} \left[ \frac{(100 \times 1000)}{3600} \right] \rightarrow \frac{27^2}{16} = 45.5 \text{ Kg/m}^2$$

### 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 14.0 m.



# SUNTUF® Rooflights Technical Guide

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### Positioning

- Make sure the UV protected side faces out.
- Lay the SUNTUF panel to overlap metal panels on both sides. If not feasible -
- SUNTUF Rooflight panels must underlap the metal roof panels against the primary direction of rain.
- The SUNTUF sheet must be located and installed without any stresses.

Do not pull, stretch or force the sheets when the profiles are not perfectly matched.



### Fastening

- Apply sealing tape along the Side-Lap metal panel's corrugation crests, on both sides.
- Apply sealing tape along the SUNTUF panel's side-lap, where covered by the Metal panel.
- Apply sealing tape along the bottom and top End-lap (if there is), along screws centerline or two tapes on both sides of screw centerline.
- Pre-drill 10mm holes at crests where screws are positioned.
- Start fastening the screws from the first side-lap (left) through the pre-drilled holes (2).
- Start fastening the screws on the lower edge purlin (End-lap), on each corrugation crest (1).
- Fasten screws at the internal and upper edge purlins, at each corrugation crest, starting at the same side (1, 2).
- **Do not over-tighten!**
- Fasten the stitching screws at the side-lap every 300-400 mm (3).
- 



### Fastening Location

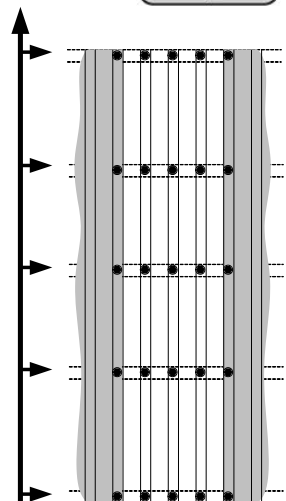
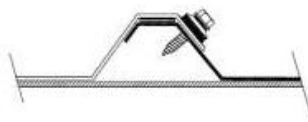
(1)



(2)



(3)



### Screws and Washers Specification

- Crest fixing: Self-drilling 5.5mm x 75mm (3") screw + matched metal crest rider (Storm washers) with EPDM gasket.
- Side Stitching: 5.5mm x 19mm (3/4") self-tapping screw with 19 mm washer/gasket.



# SUNTUF® Rooflights Technical Guide

## Profile: 6500 IBR 0.8-1.25mm



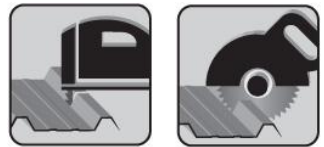
### Important Notes

- 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 / Sawing Tips

- Table or Portable circular saw with small teeth.
- Jigsaw.
- When Sawing use high blade speed and slow feed rate.
- Support the sheet in the vicinity of the cut and clean dust and splinters away.



### Fastening Tips

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



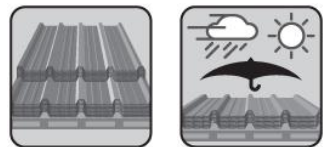
### Safety

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



### Handling and Storage

- Store in a 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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