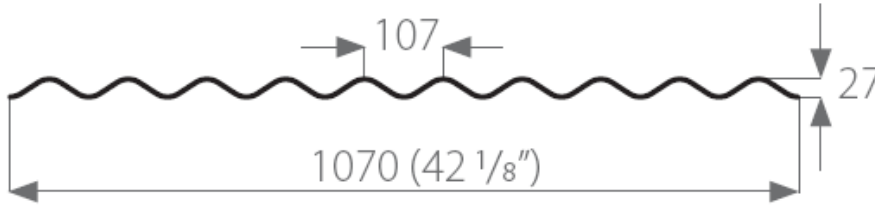


SUNTUF® Technical Guide

Profile: 107/27 (American 4.2)



Profile Drawing



Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
107 / 27	0.8-1.5	1.5 - 11.8	1070	963	10

Load / Span Data

Load (kg/m ²)	Maximum Roof Span (mm)					
	1.0 mm		1.2 mm		1.5 mm	
	Mid Field	End Field	Mid Field	End Field	Mid Field	End Field
75	1250	940	1300	975	1350	1010
100	1150	860	1200	900	1250	940
125	1050	790	1100	825	1150	860
150	950	710	1000	750	1050	790

- The dimensions specified 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.
- For single span application use the end field column.
- The mentioned load refers to both wind and snow loads and intended for rooflights only.
- Minimum recommended slope – 10%.
- Maximum recommended panel length - 7.0 m.

Curved Roof

- Minimum curving radius 6.0 m.



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Positioning

- Make sure the UV protected side faces out.
- Lay the SUNTUF panel to overlap roof panels on both sides. If not feasible -
- SUNTUF Rooflight panels must underlap the 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.

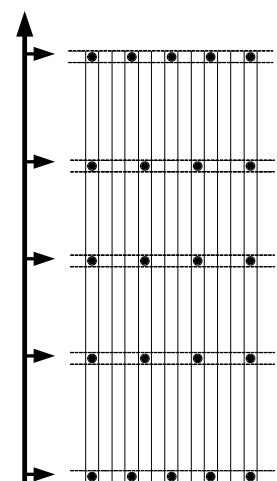
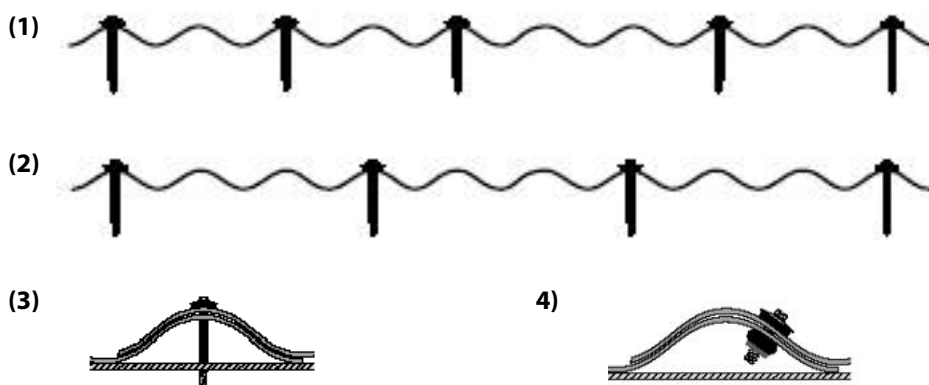


Fastening

- Apply sealing tape 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), 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 (3).
- Start fastening the screws on the lower edge purlin (End-lap), through every other corrugation crest (1).
- Fasten screws at the internal purlins, through every third corrugation crest, starting at the same side (2).
- Fasten screws at the upper edge purlin, through every other corrugation crest, starting at the same side (1)
- **Do not over-tighten!**
- Fasten the stitching screws at every 300-400 mm (4).



Fastening Location



Screws and Washers Specification

- Crest fixing: Self-drilling 5.5mm (1/4") x 65mm (2 1/2") screw + matched metal crest rider (Storm washers) with EPDM gasket.
- Side Stitching: 5.5mm x 25mm (1/4"x1") Stitching Screws (Grommet seals) with EPDM seal.



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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.



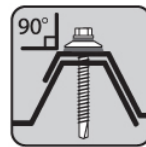
Cutting Tips

- 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.**



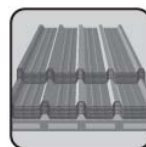
Safety

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



Handling and Storage

- Store in a 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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