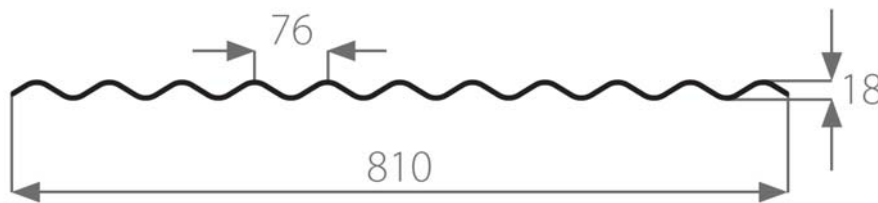


SUNTUF® Technical Guide

Profile: Iron 76/18 (Sinus)



Profile Drawing



Profile is also available in other widths: 660, 860, 1140 and 1260.

Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
76 / 18	0.8 – 1.5	1.5 - 11.8	900	830	7.8

Load / Span Data

Load (kg/m ²)	Maximum Roof Span (mm)			
	0.8 mm		1.0 mm	
	Mid Field	End Field	Mid Field	End Field
50	850	640	900	675
80	700	525	850	640
110	600	450	750	560

- 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.
- In vertical walls the spans can be increased by 10%.
- The mentioned load refers to both wind and snow loads.
- Minimum recommended slope – 10%.
- Maximum recommended panel length - 7.0 m.

Curved Roof

- Minimum curving radius 4.0 m.



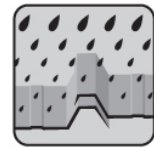
SUNTUF® Technical Guide

Profile: Iron 76/18 (Sinus)



Positioning

- Make sure the UV protected side faces out.
- Side-lap of SUNTUF panels must be installed against the primary direction of rain.
- The SUNTUF panels must be located and installed without any stresses.
Do not pull, stretch or force the sheets when the profiles are not perfectly matched.

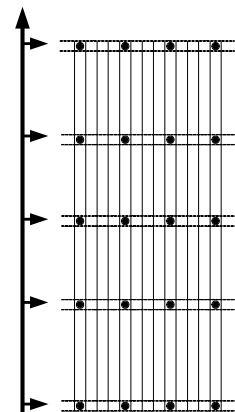
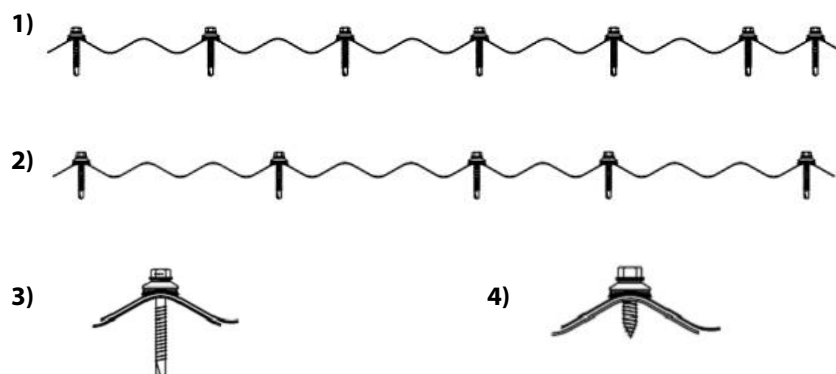


Fastening

- 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 mm (4).



Fastening Location



Screws and Washers Specification

- Crest fixing: Self-drilling 5.5mm (1/4") x 40mm (1 1/2") screw + matched metal crest rider (Storm washers) with EPDM gasket or 19mm diameter- galvanized / aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
- Side Stitching: 5.5mm x 19mm (3/4") self-tapping screw with 19 mm washer/gasket.



SUNTUF® Technical Guide

Profile: Iron 76/18 (Sinus)



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 tools

- 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.**



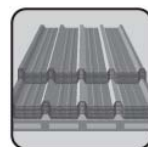
Safety

- 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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