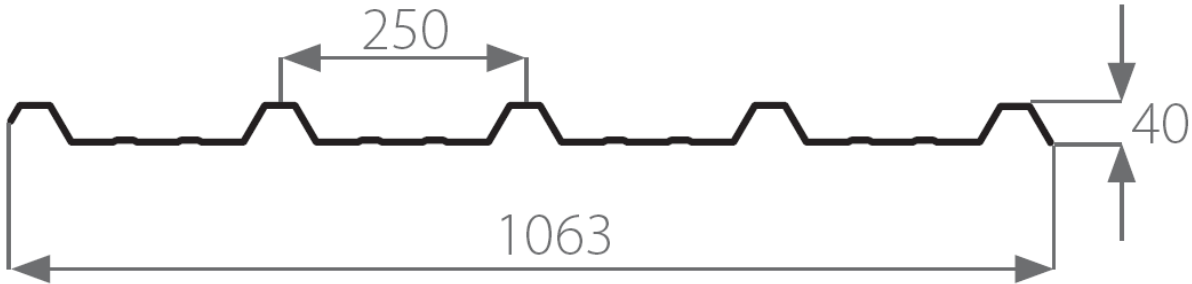


# SUNTUF® Technical Guide

## Profile: SUNTUF® 100



### Profile Drawing



### Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
250 / 40	1.0 – 2.0	1.5 - 11.8	1063	1000	5.9

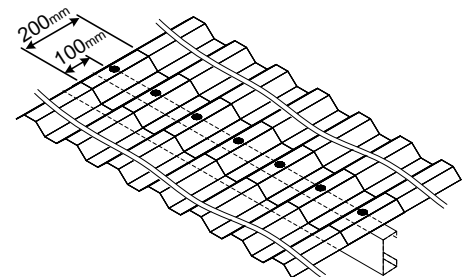
### Load / Span Data

Load (kg/m <sup>2</sup> )	Maximum Roof Span (mm)							
	1.0 mm		1.2mm		1.5 mm		2.0 mm	
	Mid Field	End Field	Mid Field	End Field	Mid Field	End Field	Mid Field	End Field
50	1800	1350	1850	1390	1900	1430	2000	1500
75	1600	1200	1650	1240	1700	1280	1800	1350
100	1450	1090	1500	1125	1550	1160	1650	1240
125	1350	1010	1400	1050	1450	1090	1550	1160
150	1250	940	1300	975	1350	1010	1450	1090

- 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%.
- 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 16.0 m.



# SUNTUF® Technical Guide

## Profile: SUNTUF® 100



### 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.

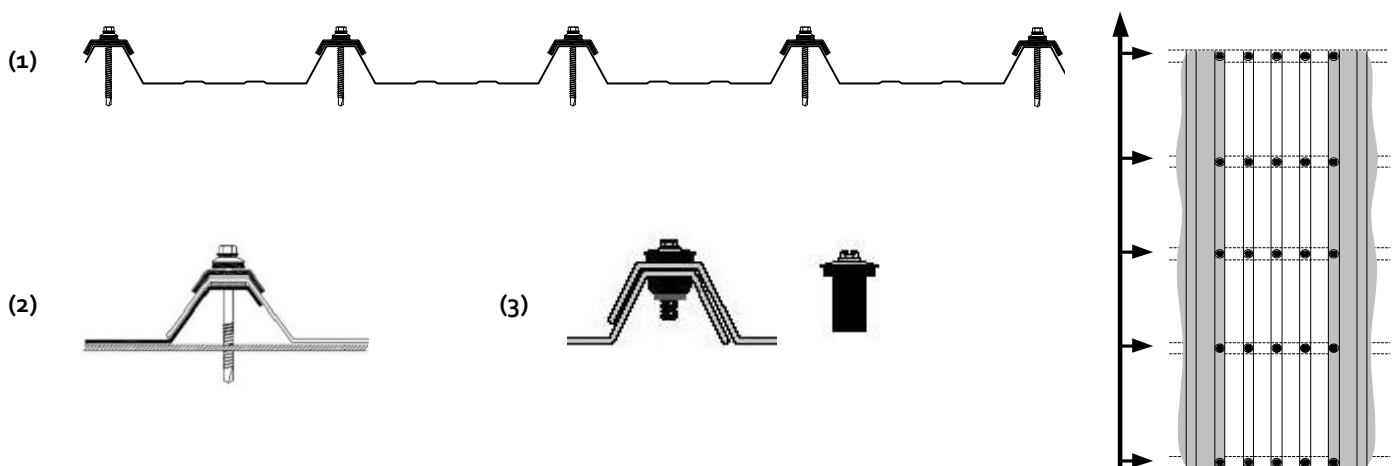


### Fastening

- 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 (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 every 300 mm (3).



### Fastening Location



### 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 25mm (1/4"x1") Stitching Screws (Grommet seals) with EPDM seal.



# SUNTUF® Technical Guide

## Profile: SUNTUF® 100



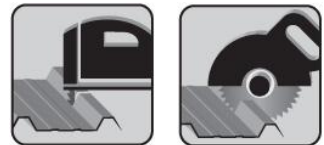
### Important Notes

- 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.



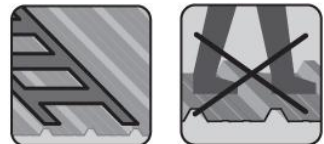
### Fastening Tips

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



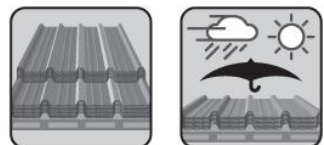
### Safety

- 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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