

SUNTUF® Plus Installation

Profile: Omega 18.5/180

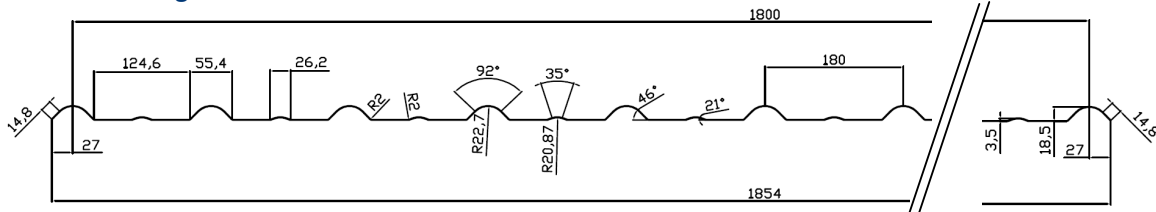


25/11/2015

Product Description:

- SUNTUF Plus - Co-extruded UV protected, anti-fog treated Polycarbonate panel.

Profile drawing:



General properties:

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
18.5/180	0.8	1.5 - 11.6	1854	1800	2.9

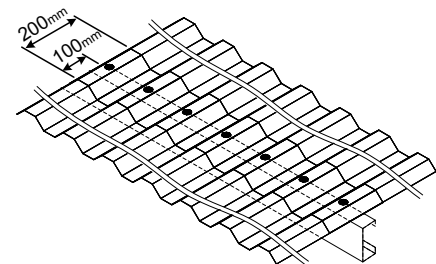
Load / Span Data

Maximum Roof Span (mm)	
Load (kg/m ²)	0.8 mm
60	1300
90	1200
120	1100
150	1000
180	900
210	800

- 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.
- In vertical walls the spans can be increased by 10%.
- Minimum recommended slope – 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. 100mm beyond the last fixings line.



Curved Roof

- Minimum curving radius 5.0 m.



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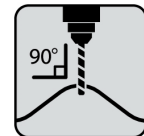
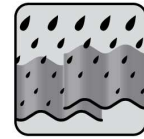
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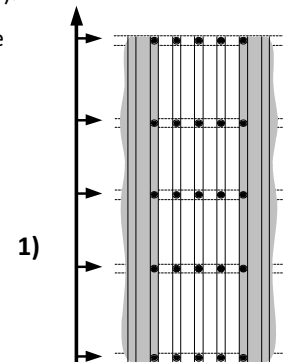
Positioning

- 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.
- Install SUNTUF panels against the primary direction of rain and winds.
- 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.
- SUNTUF sheets should overhang Min. 50mm and Max. 100mm beyond the last fixings line.



Fastening

- Apply sealing tape over the SUNTUF panel side-lap corrugation crests, where covered by the next panel.
- Apply the sealing tape along the bottom and top End-lap (if relevant).
- Apply the sealing tape under the screw's centerline, or two tapes on both sides of the screw's centerline.
- Pre-drill 10mm holes at screws location.
- Start fastening the screws from the first side-lap (left) through the pre-drilled holes (1).
- Start fastening the screws on the lower edge purlin (End-lap), through every valley (1) (2).
- Fasten screws at the internal purlins, through every valley, starting at the same side (3).
- Fasten screws at the upper edge purlin, through every valley, starting at the same side (2) (4).
- Fasten overlaps corrugation at the crests over each purlin (4).
- Fasten the stitching screws at every 300-400 mm (6).
- **Do not over-tighten!**

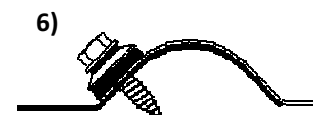
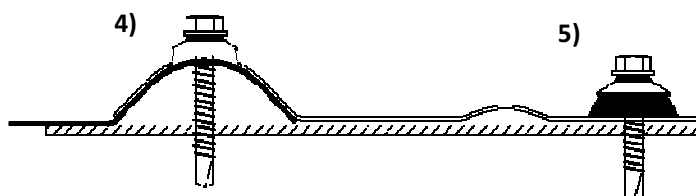


Screw fixing scheme

2) Edge purlin – 10 valley screws



3) Interior purlins – 8 valley screws



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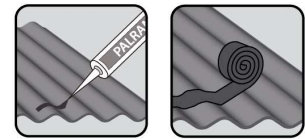
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Screws and Washers Specification

- Crest fixings (Side-laps): Self-drilling 6.3mm (¼") x 50mm (2") screw (4) + 19mm Palram Washer/Gasket.
- Valley fixings: Self-drilling 6.3mm (¼") x 38mm (1½") screw (5) + 25mm Palram Washer/Gasket.
- Washers: Valley - 25mm. Crown (Side-lap) – 19mm.
(Galvanized / aluminum / stainless metal washer attached to EPDM gasket of 55 to 65 shore hardness)
- Side Stitching: 6.3 x 25mm (¼"x1") Self Tapping Screws with 19mm EPDM washer/gasket or metal lap Clip (6).

Important Notes

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



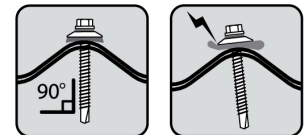
Cutting Tips

- 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.**



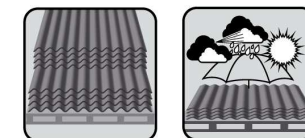
Safety

- 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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