

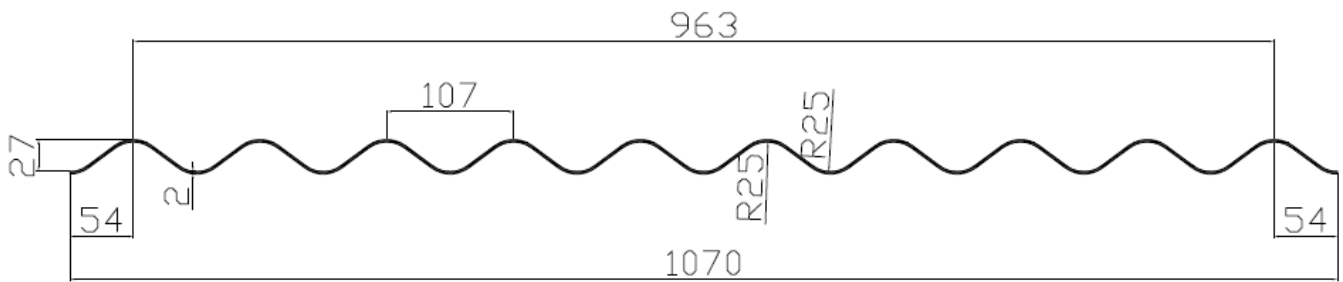
PALRUF® Technical Guide

Profile: PALRUF® 107/27 (American 4.2)



24/01/2019

Profile Drawing



Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
107 / 27	2.0-3.0	1.5 - 11.8	1070	963	10

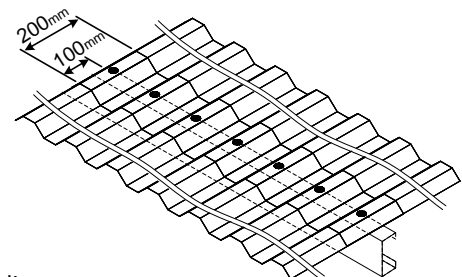
Load / Span Data

Load (Kg/m ²)	Maximum Roof Span (mm)					
	2.0 mm		2.5 mm		3.0 mm	
	Mid Span	End Span	Mid Span	End Span	Mid Span	End Span
75	1550	1160	1650	1250	1750	1310
100	1400	1050	1500	1125	1600	1200
125	1300	975	1400	1050	1500	1125
150	1200	900	1300	975	1400	1050
175	1150	860	1250	940	1300	975
200	1100	825	1200	900	1250	940

- 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. 150mm beyond the last fixings line.



Curved Roof

- Minimum curving radius 6.0 m.



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Positioning

- Apply one corrugation side-lap.
- **Do not install PALRUF over existing roof, without prior consultation with the manufacturer PALRAM.**
- For contact details please refer to PALRAMs' official website at www.palram.com.
- Side-lap of PALRUF panels must be installed against the primary direction of rain.
- The PALRUF panels must be located and installed without any stresses.



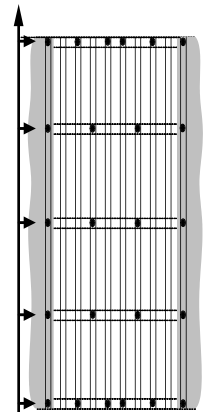
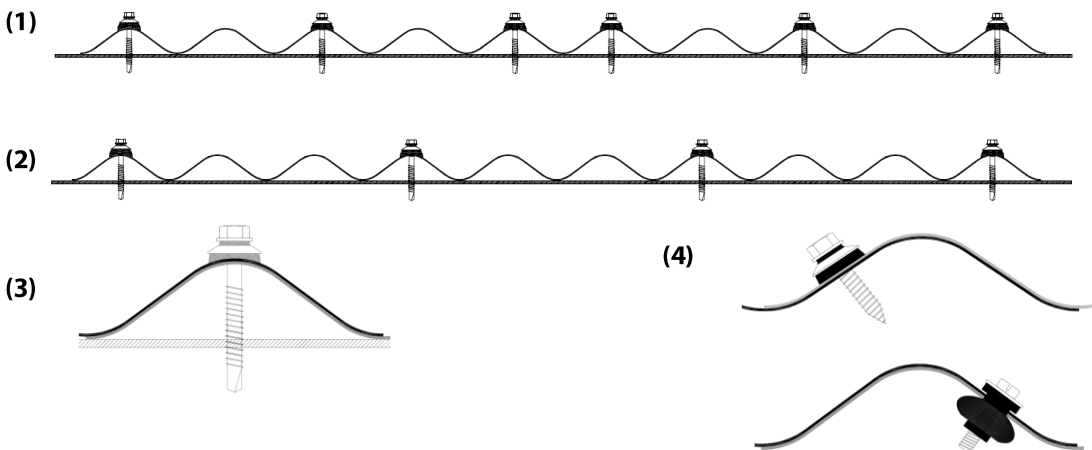
Do not pull, stretch or force the sheets when the profiles are not perfectly matched.

Fastening

- Apply sealing tape over the PALRUF 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 6.35mm (1/4") x 65mm (2 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 25mm (1/4"x1") Stitching Screws (Grommet seals) with EPDM seal. Or Self-tapping 19mm metal washer with EPDM gasket of 55 to 65 shore hardness.



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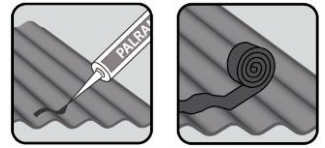
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Important Notes

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



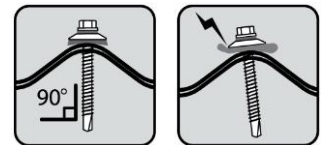
Cutting Tips

- 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.**



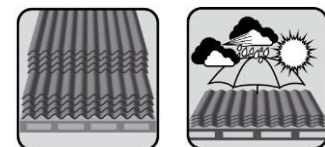
Safety

- 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.
- Cover PALRUF stack with white opaque covering.
- 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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