

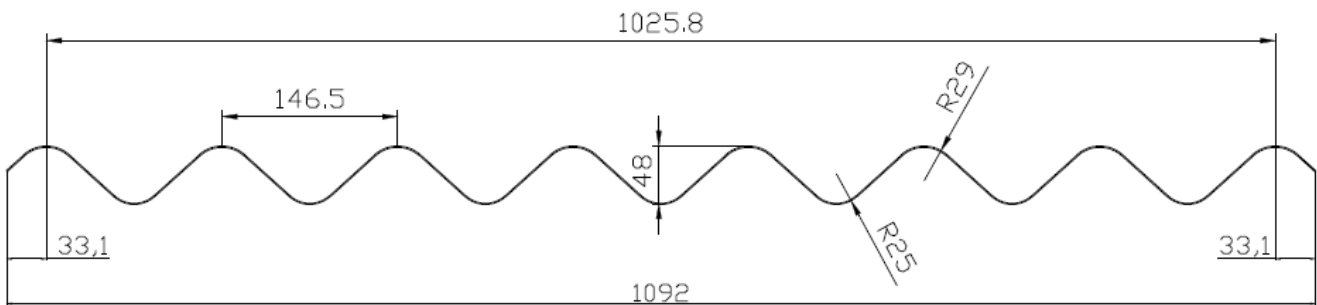
PALRUF® Technical Guide

Profile: BIG 6



22/06/2014

Profile Drawing



Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
1092/48	1.1-1.3	1.5 - 11.8	1092	1025.5	6.1

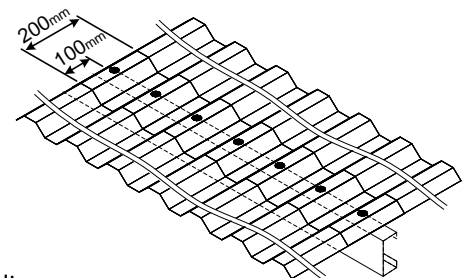
Load / Span Data

Load (kg/m ²)	Maximum Roof Span (mm)			
	1.1 mm		1.3 mm	
	Mid Field	End Field	Mid Field	End Field
75	1200	1600	1238	1650
100	1088	1450	1125	1500
125	1013	1350	1050	1400
150	938	1250	975	1300
175	900	1200	938	1250
200	863	1150	900	1200

- 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 applications 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 20.0 m.



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Positioning

- Apply one corrugation side-lap.
- Do not install PALRUF over existing roof, without proper ventilation of the air gap between.
- Side-lap of PALRUF panels should be installed against the primary direction of rain.
- The PALRUF panels should be located and installed without any stresses.
Do not pull, stretch or force the sheets during installation.

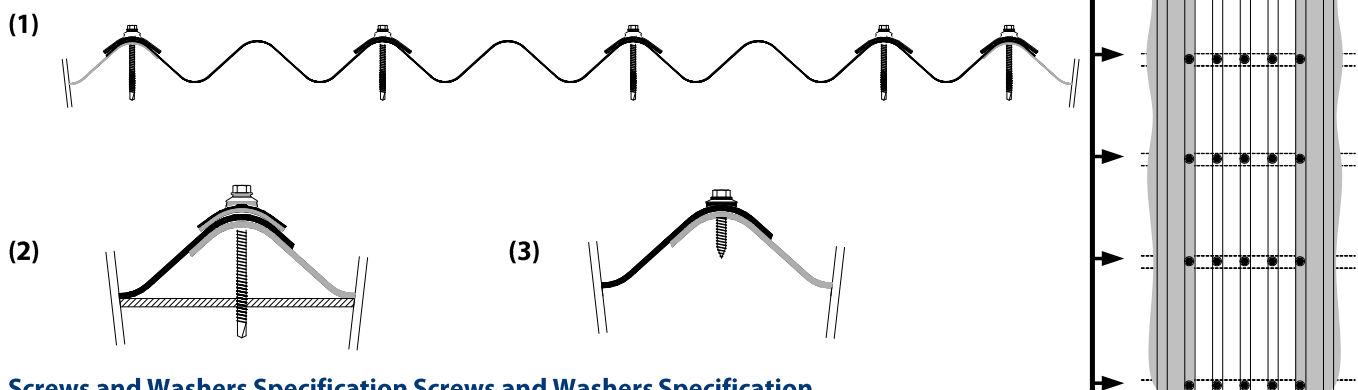


Fastening

- Apply sealing tape along the Side-Lap metal panel's corrugation crests, on both sides.
- Apply sealing tape along the PALRUF panel's side-lap, where covered by the Metal 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 every other corrugation crest (1).
- Fasten screws at the internal and upper edge purlins, on every other corrugation crest, starting at the same side (1, 2).
- **Do not over-tighten!**
- Fasten the stitching screws at the side-lap every 300-400 mm (3).



Fastening Location



Screws and Washers Specification

- Crest fixing: Self-drilling 6.35mm (1/4") x 75mm (3") screw + matched metal crest rider (Storm washers) with EPDM gasket or 25mm diameter metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.



- Side Stitching: 6.35mm x 25mm (1/4"x1") Stitching Screws (Grommet seals) with EPDM seal or Self-tapping 6.35mm (1/4") x 25mm (1") screw with 19mm diameter metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.

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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.



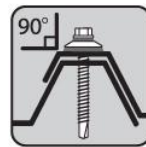
Cutting Tips

- 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 should be installed perpendicular to the PALRUF sheet.
- Important: Do not over-tighten.



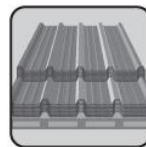
Safety

- 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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