

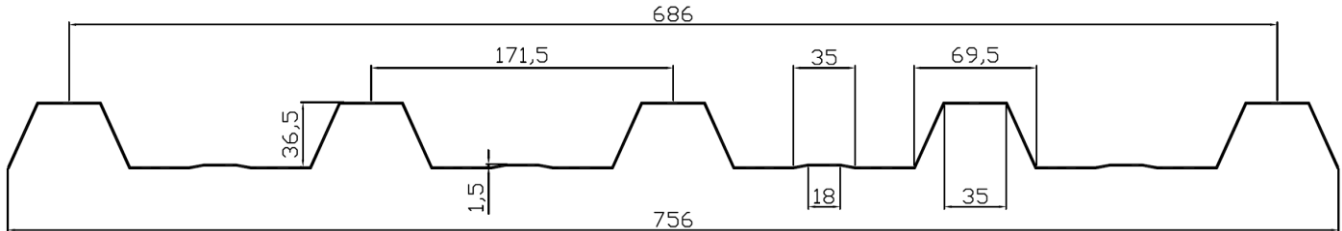
PALRUF® Technical Installation Guide

Profile: 6500 (IBR)



08/04/2013

Profile Drawing



Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
171.5 / 36.5	1.0 – 2.0	1.5 - 11.6	756	686	9.3

Load / Span Data

Load (kg/m ²)	Maximum Roof Span (mm)					
	1.0 mm		1.3 mm		2.0 mm	
	Mid Field	End Field	Mid Field	End Field	Mid Field	End Field
75	1750	1310	1825	1370	2000	1500
100	1650	1240	1725	1290	1900	1425
125	1550	1160	1625	1220	1800	1350
150	1450	1090	1525	1140	1700	1275
175	1400	1050	1475	1110	1600	1200
200	1350	1010	1425	1070	1500	1125

- 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%.

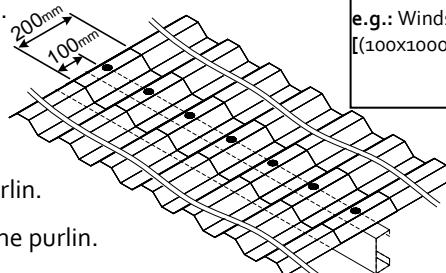
$$Q \text{ Kg/m}^2 = \frac{V^2 \text{ M/sec.}}{16}$$

$$V \text{ M/sec} = V \text{ Km/h} \times 1000 / 3600$$

e.g.: Winds of 100km/h = 27m/sec
 $[(100 \times 1000) / 3600] \rightarrow 27^2 = 45.5 \text{ Kg/m}^2$

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 14.0 m.



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Positioning

- 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 (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).

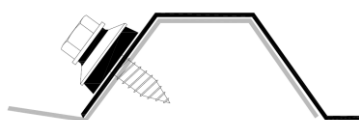


Fastening Location

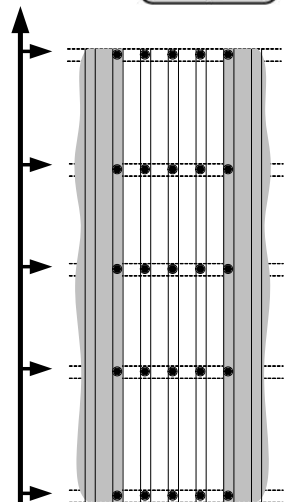
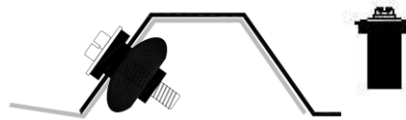
(1)



(2)



(3)



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.



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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 PALRUF sheet.
- **Important: Do not over-tighten.**



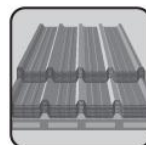
Safety

- 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.
- 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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