

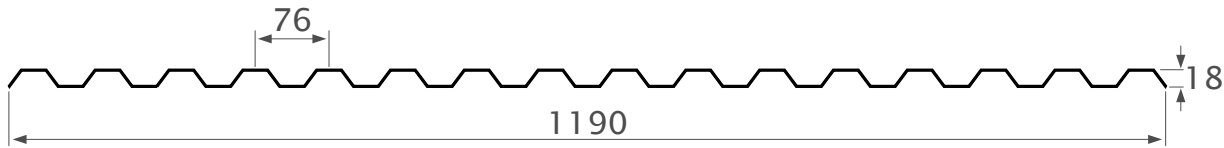
PALRUF® Technical Guide

Profile: GRECA 76



24/01/2019

Profile Drawing



Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
76 / 18	1.0	1.5 - 11.8	1190	1140	4.2

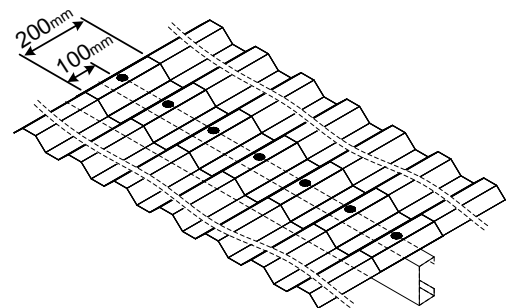
Load / Span Data

Load (kg/m ²)	Maximum Roof Span (mm)
	1.0 mm
50	1100
75	1000
100	900
125	800
150	700

- 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 overlaps 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 4.0 m.



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Positioning

- Apply one corrugation side-lap. Two corrugations side-lap is recommended for low roof slope and/or high wind areas.
- Side-lap of PALRUF panels must be installed against the primary direction of rain.
- **Do not install PALRUF over existing roof or ceiling, without prior consultation with the manufacturer PALRAM.**
- For contact details please refer to PALRAM's official website at www.palram.com.
- 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.



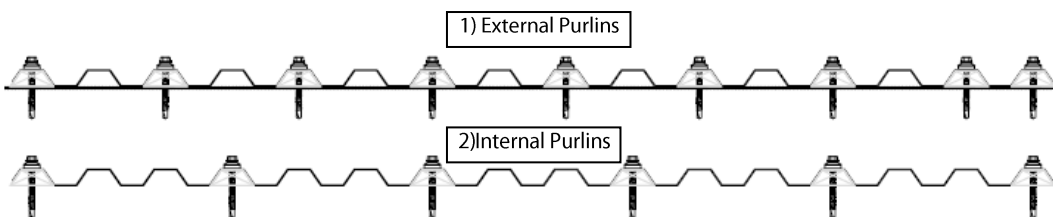
Fastening

- 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
- Start fastening the screws on the lower edge purlin (End-lap), through every other corrugation crest/Valley depending on installation type.
- Fasten screws at the internal purlins, through every third corrugation crest/valley, starting at the same side.
- Fasten screws at the upper edge purlin, through every other corrugation crest/valley, starting at the same side. When using Ridge-Cap or Top wall trim, place it before fastening the upper purlin screws.
- **Do not over-tighten!**
- Stitching screws: Fasten the at every 300-400 mm

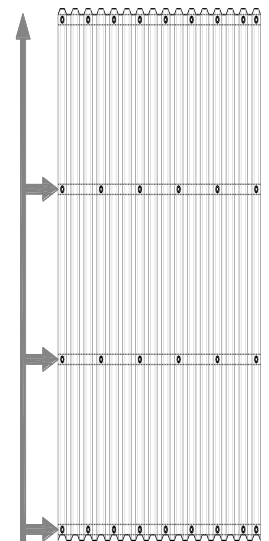
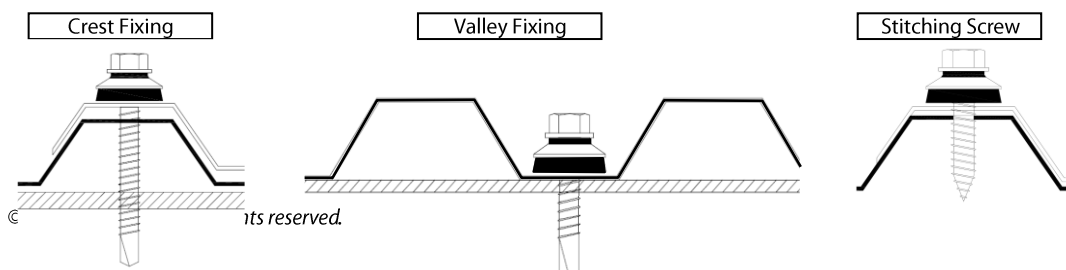
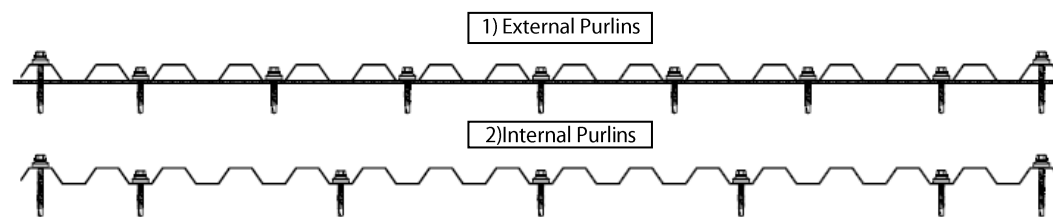


Fastening Location

Crest Installation with crest support



Valley Installation



Screws and Washers Specification

Crest Fixing:

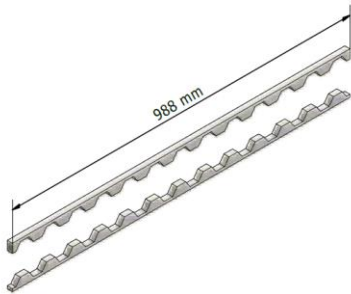
- Screws for metal purlins: Self-drilling 6.5mm (1/4") x 40mm (1 1/2") screw with 19mm washer and EPDM gasket.
- Screws for wooden purlins: Tapping 6.5mm (1/4") x 50mm (2") screw with 19mm washer and EPDM gasket.

Valley Fixing:

- Screws for metal purlins: Self-drilling 6.5mm (1/4") x 25mm (1") screw with 19mm washer and EPDM gasket.
- Screws for wooden purlins: Tapping 6.5mm (1/4") x 40mm (1 1/2") screw with 19mm washer and EPDM gasket.
- Washers: metal crest rider (Storm washers) with EPDM gasket or 25mm (3/4") PALRAM washers.
- Side Stitching: 6.5mm x 25mm (1/4"x1") self tapping screw with 19mm washer and EPDM gasket.



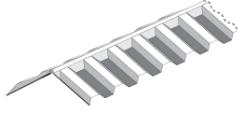

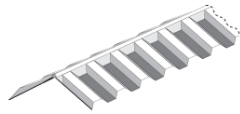

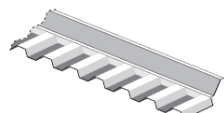
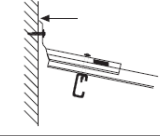
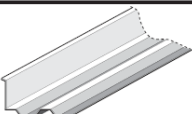
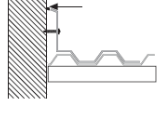
Accessories



Foamed polyethylene closure 988mm wide



Closure strip=Crest support 610mm wide

	Illustration	Cross Section	Dimensions mm (in.)
Universal Ridge Cap			2.280 x 270 x 270 (90 x 10 x 10)
Universal Ridge Cap			2.280 x 150 x 150 (90 x 6 x 6)
Top Wall Trim			2.280 x 50 x 150 (90 x 2 x 10)
Side Wall Trim			2.280 x 50 x 130 (90 x 2 x 5)

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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.**



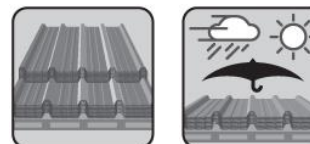
Safety

- Do not step directly on the panel.
- Use stepping boards.
- Work according to local safety regulations.



Handling and Storage

- Store in a 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.
- After installation keep sheets free of dust and suit.
- Sheets should be cleaned frequently with a water hose.



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