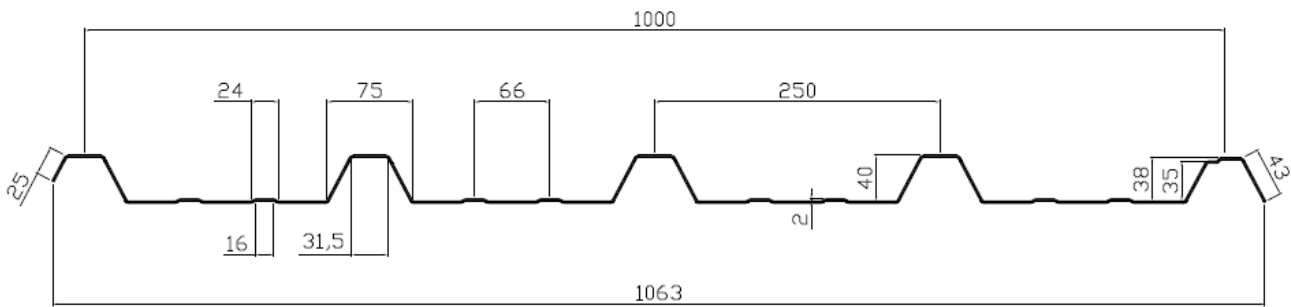


### Profile Drawing



### Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
250 / 40	2.0 – 3.0	1.5 - 11.6	1063	1000	5.9

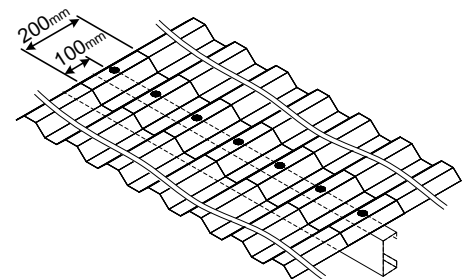
### Load / Span Data

Load (kg/m <sup>2</sup> )	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
50	1800	1350	1900	1425	2000	1500
75	1700	1275	1800	1350	1900	1425
100	1600	1200	1700	1275	1800	1350
125	1500	1125	1600	1200	1700	1275
150	1400	1050	1500	1125	1600	1200
175	1300	975	1400	1050	1500	1125
200	1200	900	1300	975	1400	1050

- 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%.

### Panel Length

- Maximum recommended panel length - 7.2 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 16 m.



### Positioning

- **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](http://www.palram.com).
- 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 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 and valleys where screws are positioned.**

- Start fastening the screws from the first side-lap (left) through the pre-drilled holes



**Roof Fixing:** Start fastening the screws on the lower edge purlin (End-lap), on each corrugation crest (1).

- Fasten screws at the internal purlins, at each corrugation crest, starting at the same side.

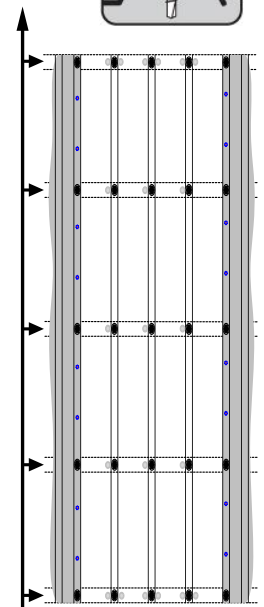
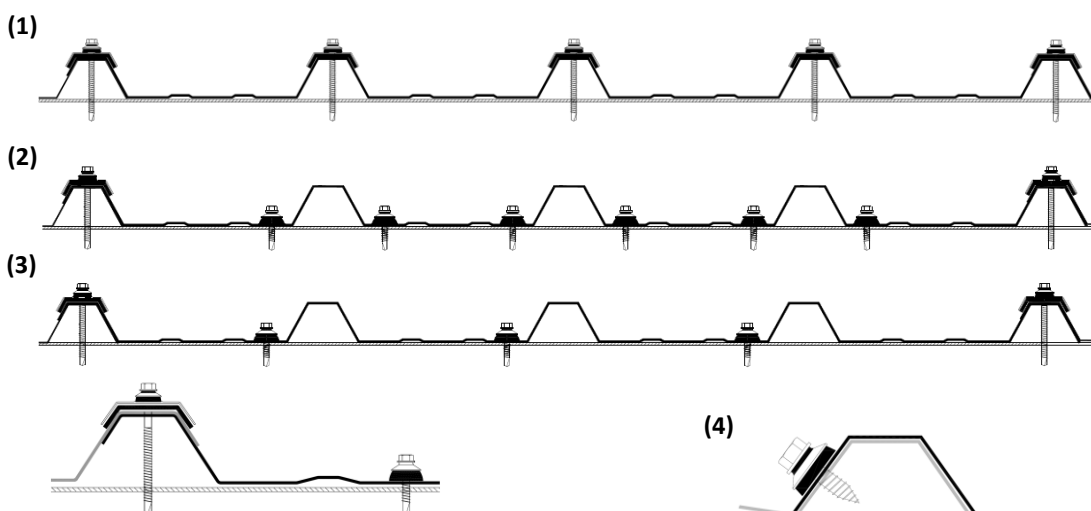
- **Wall Fixing:** Start fastening the screws on the lower edge purlin (End-lap), in the valleys on both sides of each corrugation (2). At the side laps fix the crests.

- Fasten screws at the internal purlins, in the valleys, one screw at each corrugation side(3)

- **Do not over-tighten!**

- Fasten the stitching screws at every 300-400 mm through the sheets between the purlins (4).

### Fastening Location



### Screws and Washers Specification

- **USE SUNTUF SCREWS**
- **Crest fixing:** Self-drilling - ¼"X 3" (6.35mmX90mm) screw with 25mm washer and EPDM gasket.
- **Valley fixing:** Self-drilling - ¼"X 1.5" (6.35mmX38mm) screw with 25mm washer and EPDM gasket.
- **In areas with strong winds and/or snow loads, and where spans between purlins are large use Storm washer with EPDM gasket**
- **Side Stitching:** ¼"X1" (6.35mmX25mm) self-tapping screw 19mm washer and EPDM gasket.

### 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.**



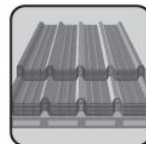
### Safety

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

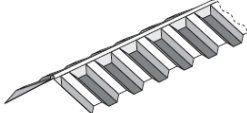

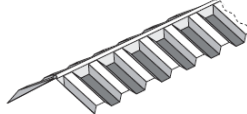

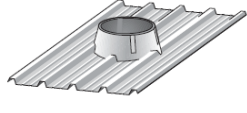



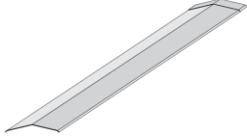
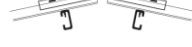
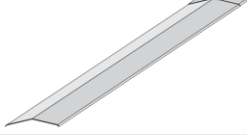

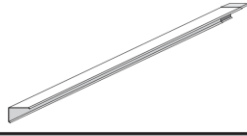
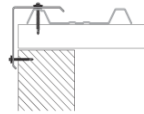
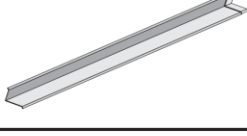
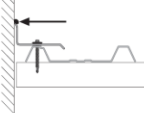




### Handling and Storage

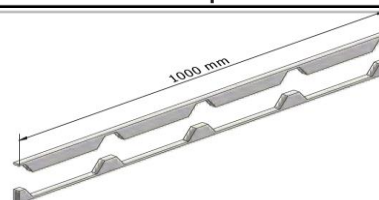
- Store in a dry shaded place, protect from direct sunlight and rain.
- Cover PALRUF stack with white opaque covering.
- Avoid covering the sheets with heat absorbing materials.
- Avoid contact or environment of chemicals.
- Protect the sheets from any physical damage.
- After installation keep sheets free of dust and suit.
- Sheets should be cleaned frequently with a water hose.





### Finishing Accessories for PALRUF® sheets.

	Illustration	Cross Section	Dimensions mm (in.)
Universal Ridge Cap			1,100 x 500 x 500 (43 x 20 x 20)
Universal Ridge Cap			1,100 x 270 x 270 (43 x 11 x 11)
Air Vent Panel 50 mm			1800 x 1063 (83 x 44)
Air Vent Cap			Diameter: 900mm
Supports			350 x 50 (14 x 2)
Flat Ridge Cap 150°			2,500 x 210 x 210 (98 x 8 x 8)
Flat Ridge Cap 150°			2,500 x 320 x 320 (98 x 59 x 59)
Standard Side Gable Trim 90°			2,500 x 160 x 160 (98 x 6 x 6)
Top Wall Trim			2,500 x 50 x 160 (98 x 2 x 6)
Styled Gable Trim 90°			2,300 x 200 x 140 (90.5 x 8 x 5.5)

Foamed Polyethylene Sealing Strips


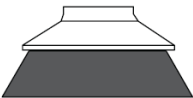


### Screws

	Illustration	Length mm (in.)
Self - Drilling Screw		25, 38, 64, 76, 89, 121 (1, 1 1/2, 2 1/2, 3, 3 1/2, 4 3/4)
Self - Tapping Screw		25, 38, 64, 76, 89, 121 (1, 1 1/2, 2 1/2, 3, 3 1/2, 4 3/4)

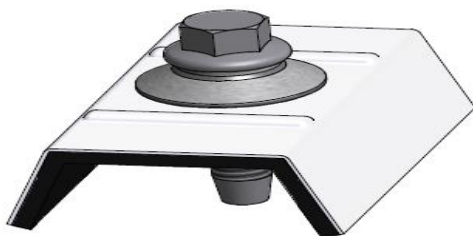


### Washers

	Illustration
19mm Washer/Gasket	
25mm Washer/Gasket	



### Storm Washer



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# PALRUF® Technical Guide

## Profile: 100 Industrial



24/01/2019

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