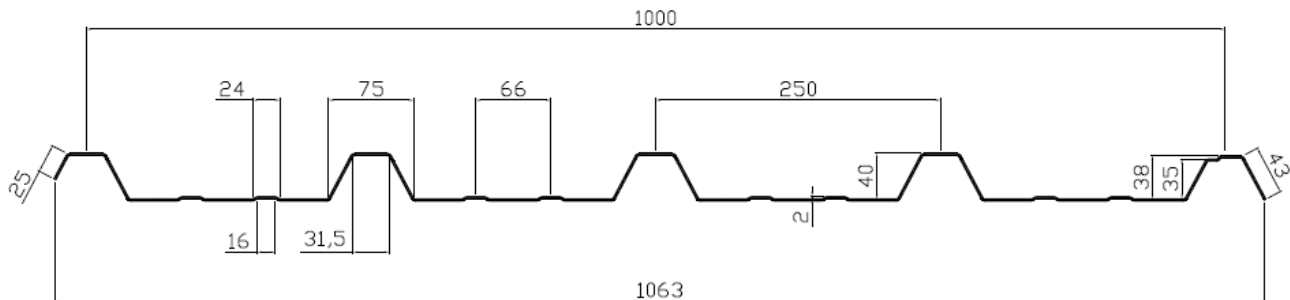


Profile Drawing



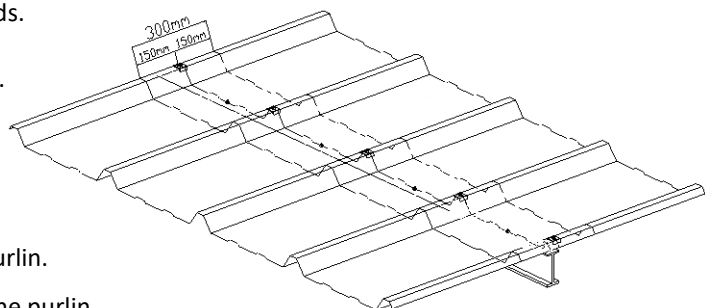
Profile Dimensions

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 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
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 overlaps of 300mm above purlin.
- Each panel to extend 150mm 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.



Installation

We recommend installing PALRUF in average weather when neither too hot nor too cold.

Positioning

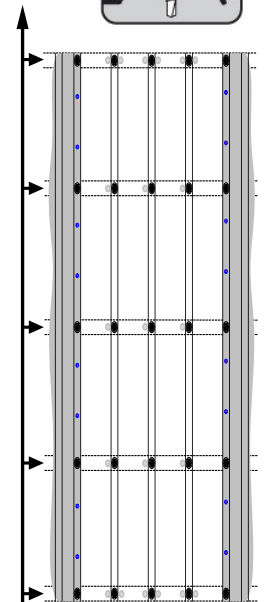
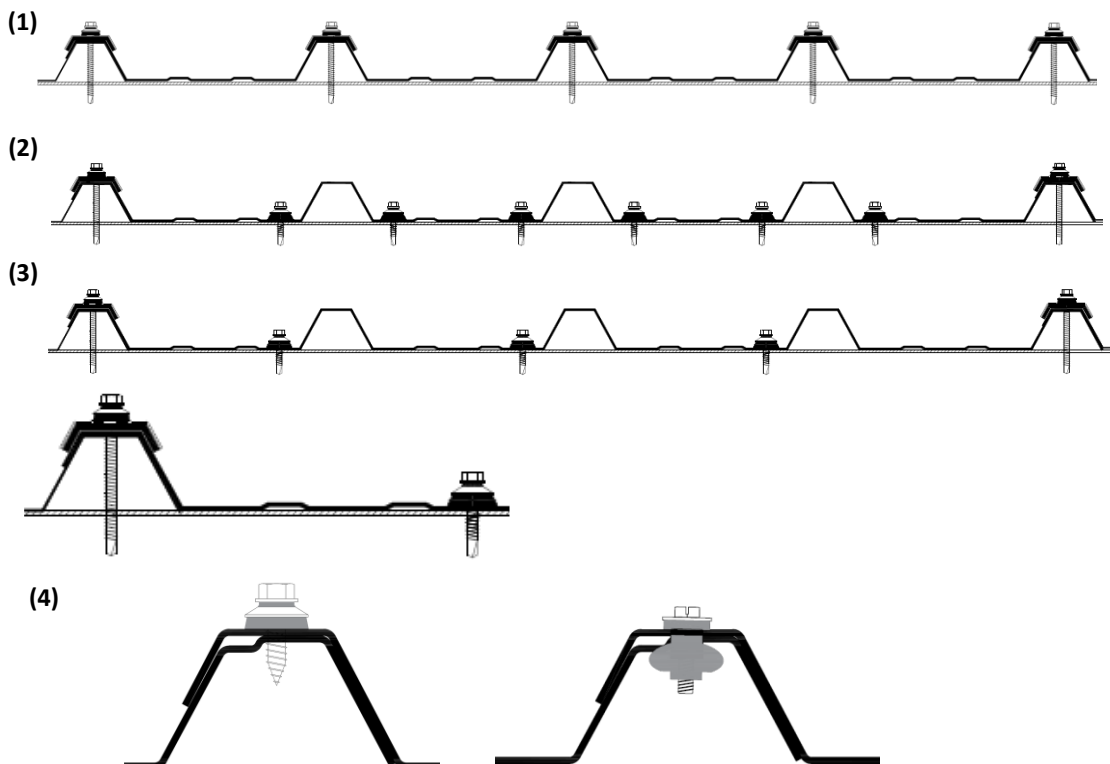
- **Do not install PALRUF over existing roof, without prior consultation with the manufacturer PALRAM.**
- For contact details please refer to PALRAM's official website at www.palram.com.
- Side-lap of DURASHIELD panels should be installed against the primary direction of rain.
- The DURASHIELD panels 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 DURASHIELD 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!**
- Stitching screws/grommet seals-Fasten the 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: Grommet seals 9.5mmx25mm, or ¼"x 1" (6.4mmx25mm) self-tapping Screws with EPDM seal or 19 mm diameter EPDM washer/gasket of 55-65 shore hardness.

Important Notes

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



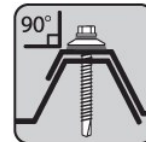
Cutting Tips

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



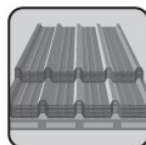
Safety

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

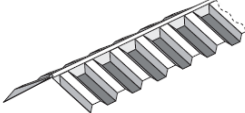

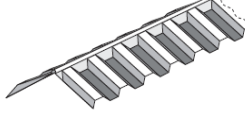







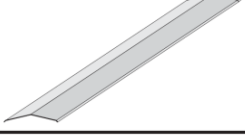


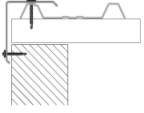
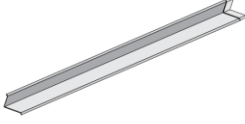
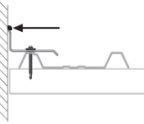

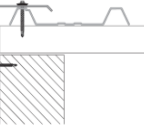
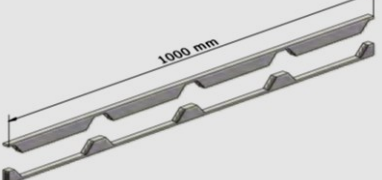


Handling and Storage


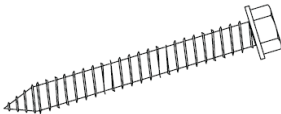
- **Using PALRUF sheets, requires consideration and planning according to weather and environmental conditions** (pollution, dust, various noncompatible materials)
- **In areas with a high level of pollution / dust / soot, the panels must be washed frequently with high water pressure hose.**
- Store 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.



Finishing Accessories for DURASHIELD® sheets.


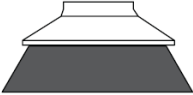
	Illustration	Cross Section	Dimensions mm (in.)
Universal Ridge Cap			1,100 x 500 x 500 (43 x 20 x 20)
Universal Ridge Cap			1,100 x 270 x 270 (43 x 11 x 11)
Air Vent Panel 50 mm			1800 x 1063 (83 x 44)
Air Vent Cap			Diameter: 900mm
Supports			350 x 50 (14 x 2)
Flat Ridge Cap 150°			2,500 x 210 x 210 (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			

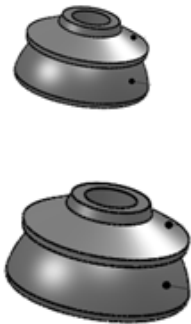
Screws

	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)

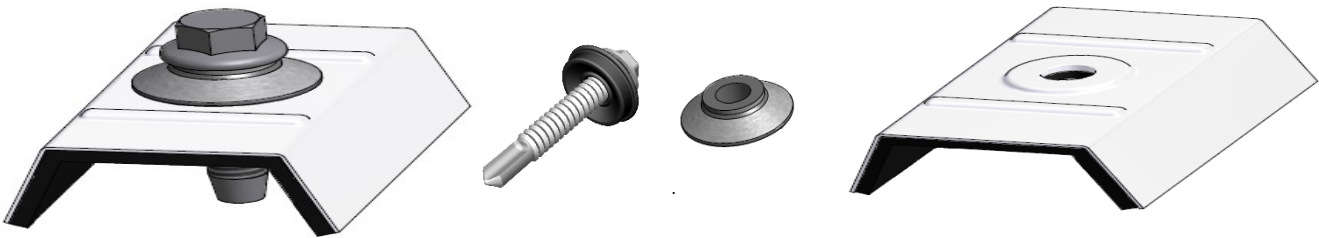


Washers

	Illustration
19mm Washer/Gasket	
25mm Washer/Gasket	



Storm Washer



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