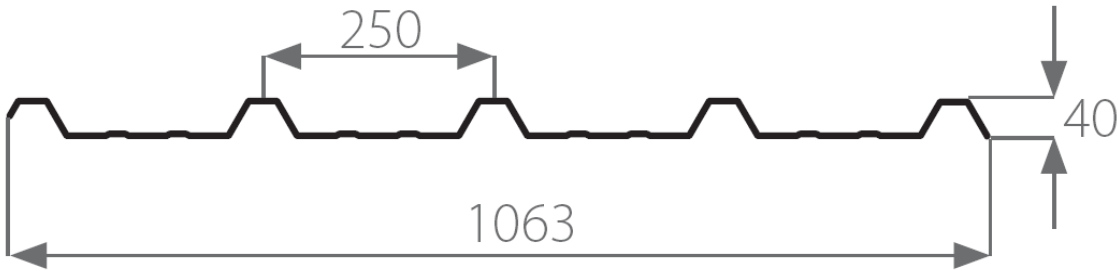


PALRUF® Technical Guide

Profile: 0100 Industrial



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 |

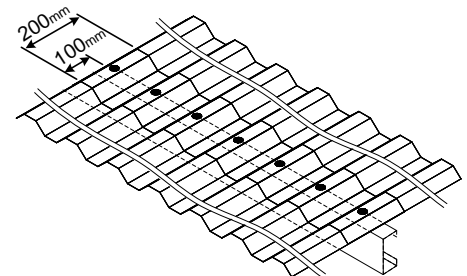
Load / Span Data

| Load (kg/m ²) | Maximum Roof Span (mm) | | | | | |
|---------------------------|------------------------|-----------|-----------|-----------|-----------|-----------|
| | 2.0 mm | | 2.5 mm | | 3.0 mm | |
| | Mid Field | End Field | Mid Field | End Field | Mid Field | End Field |
| 50 | 1800 | 1350 | 1900 | 1430 | 2000 | 1500 |
| 75 | 1600 | 1200 | 1700 | 1280 | 1800 | 1350 |
| 100 | 1450 | 1090 | 1550 | 1160 | 1650 | 1240 |
| 125 | 1350 | 1010 | 1450 | 1090 | 1550 | 1160 |
| 150 | 1250 | 940 | 1350 | 1010 | 1450 | 1090 |

- 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 - 7.0 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

- Make sure the UV protected side faces out.
- 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.

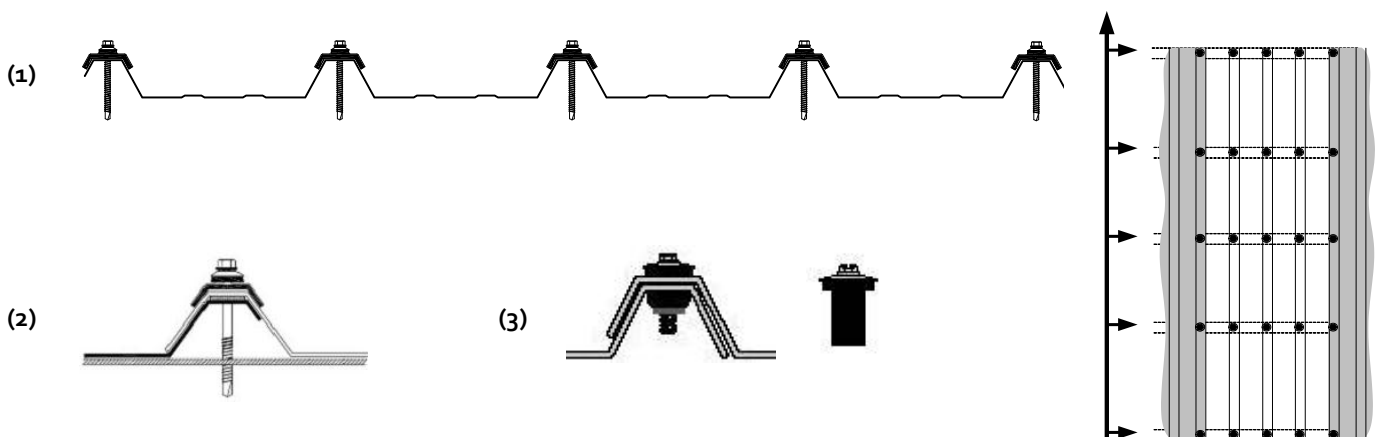


Fastening

- 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



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.



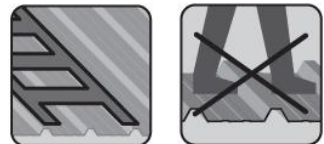
Fastening Tips

- Use adjustable electric screwdriver.
- The screw must be installed perpendicular to the PALRUF sheet.
- **Important: Do not over-tighten.**



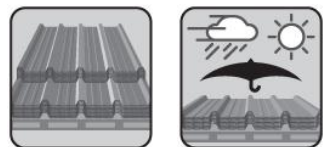
Safety

- 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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