Profile Drawing

Profile Dimensions

<table>
<thead>
<tr>
<th>Profile (mm)</th>
<th>Thickness (mm)</th>
<th>Length (m)</th>
<th>Overall width (mm)</th>
<th>Cover Width (mm)</th>
<th>Side-Lap (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>107 / 27</td>
<td>2.0-3.0</td>
<td>1.5 - 11.8</td>
<td>1070</td>
<td>963</td>
<td>10</td>
</tr>
</tbody>
</table>

Load / Span Data

<table>
<thead>
<tr>
<th>Load (Kg/m²)</th>
<th>2.0 mm</th>
<th>2.5 mm</th>
<th>3.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mid Span</td>
<td>End Span</td>
<td>Mid Span</td>
</tr>
<tr>
<td>75</td>
<td>1550</td>
<td>1160</td>
<td>1650</td>
</tr>
<tr>
<td>100</td>
<td>1400</td>
<td>1050</td>
<td>1500</td>
</tr>
<tr>
<td>125</td>
<td>1300</td>
<td>975</td>
<td>1400</td>
</tr>
<tr>
<td>150</td>
<td>1200</td>
<td>900</td>
<td>1300</td>
</tr>
<tr>
<td>175</td>
<td>1150</td>
<td>860</td>
<td>1250</td>
</tr>
<tr>
<td>200</td>
<td>1100</td>
<td>825</td>
<td>1200</td>
</tr>
</tbody>
</table>

- 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.
- In vertical walls the spans can be increased by 10%.
- Minimum recommended slope – 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 6.0 m.
Positioning

▪ Apply one corrugation side-lap.
▪ **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.
▪ 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 (3).
▪ Start fastening the screws on the lower edge purlin (End-lap), through every other corrugation crest (1).
▪ Fasten screws at the internal purlins, through every third corrugation crest, starting at the same side (2).
▪ Fasten screws at the upper edge purlin, through every other corrugation crest, starting at the same side (1).
▪ **Do not over-tighten!**
▪ Fasten the stitching screws at every 300-400 mm (4).

Fastening Location

![Diagram](image1.png)

Screws and Washers Specification

▪ **Crest fixing:** Self-drilling 6.35mm (⅛") x 65mm (2 1/2") screw + matched metal crest rider (Storm washers) with EPDM gasket or 19mm diameter- galvanized / aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
▪ **Side Stitching:** 5.5mm x 25mm (⅛"x1") Stitching Screws (Grommet seals) with EPDM seal. Or Self-tapping 19mm metal washer with EPDM gasket of 55 to 65 shore hardness.
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 SUNTUF 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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