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>250 / 40</td>
<td>2.0 – 3.0</td>
<td>1.5 - 11.6</td>
<td>1063</td>
<td>1000</td>
<td>5.9</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>50</td>
<td>1800</td>
<td>1350</td>
<td>1900</td>
</tr>
<tr>
<td>75</td>
<td>1700</td>
<td>1275</td>
<td>1800</td>
</tr>
<tr>
<td>100</td>
<td>1600</td>
<td>1200</td>
<td>1700</td>
</tr>
<tr>
<td>125</td>
<td>1500</td>
<td>1125</td>
<td>1600</td>
</tr>
<tr>
<td>150</td>
<td>1400</td>
<td>1050</td>
<td>1500</td>
</tr>
<tr>
<td>175</td>
<td>1300</td>
<td>975</td>
<td>1400</td>
</tr>
<tr>
<td>200</td>
<td>1200</td>
<td>900</td>
<td>1300</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.
- 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.
▪ 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).
  - **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

![Diagram of Fastening Location](image)

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.

<table>
<thead>
<tr>
<th></th>
<th>Illustration</th>
<th>Cross Section</th>
<th>Dimensions mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal Ridge Cap</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>1,100 x 500 x 500 (43 x 20 x 20)</td>
</tr>
<tr>
<td>Universal Ridge Cap</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>1,100 x 270 x 270 (43 x 11 x 11)</td>
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<tr>
<td>Air Vent Panel 50 mm</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>1800 x 1063 (78 x 44)</td>
</tr>
<tr>
<td>Air Vent Cap</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>Diameter: 900mm</td>
</tr>
<tr>
<td>Supports</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>350 x 50 (14 x 2)</td>
</tr>
<tr>
<td>Flat Ridge Cap 150°</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>2,500 x 210 x 210 (98 x 8 x 8)</td>
</tr>
<tr>
<td>Flat Ridge Cap 150°</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>2,500 x 320 x 320 (98 x 12 x 12)</td>
</tr>
<tr>
<td>Standard Side Gable Trim 90°</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>2,500 x 160 x 160 (98 x 6 x 6)</td>
</tr>
<tr>
<td>Top Wall Trim</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>2,500 x 50 x 160 (98 x 2 x 6)</td>
</tr>
<tr>
<td>Styled Gable Trim 90°</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>2,300 x 200 x 140 (90.5 x 8 x 5.5)</td>
</tr>
<tr>
<td>Foamed Polyethylene Sealing Strips</td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td><img src="https://via.placeholder.com/150" alt="Image" /></td>
<td>150 x 6 mm</td>
</tr>
</tbody>
</table>
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