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>76 / 18</td>
<td>1.0</td>
<td>1.5 - 11.8</td>
<td>1190</td>
<td>1140</td>
<td>4.2</td>
</tr>
</tbody>
</table>

Load / Span Data

<table>
<thead>
<tr>
<th>Load (kg/m²)</th>
<th>Maximum Roof Span (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1100</td>
</tr>
<tr>
<td>75</td>
<td>1000</td>
</tr>
<tr>
<td>100</td>
<td>900</td>
</tr>
<tr>
<td>125</td>
<td>800</td>
</tr>
<tr>
<td>150</td>
<td>700</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 applications spans can be increased by 10%.

Panel Length

- Maximum recommended panel length - 7.0 m.
- Recommended longitude overlaps of 200mm above purlin.
- Each panel to extend 100mm over the fixings line on the purlin.
- Panels should overhang Min. 50mm and Max. 100mm beyond the last fixings line.

Curved Roof

- Minimum curving radius 4.0 m.
Positioning

- Apply one corrugation side-lap. Two corrugations side-lap is recommended for low roof slope and/or high wind areas.
- Side-lap of PALRUF panels must be installed against the primary direction of rain.
- **Do not install PALRUF over existing roof or ceiling, without prior consultation with the manufacturer PALRAM.**
- For contact details please refer to PALRAMs' official website at www.palram.com.
- 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
- Start fastening the screws on the lower edge purlin (End-lap), through every other corrugation crest/Valley depending on installation type.
- Fasten screws at the internal purlins, through every third corrugation crest/valley, starting at the same side.
- Fasten screws at the upper edge purlin, through every other corrugation crest/valley, starting at the same side. When using Ridge-Cap or Top wall trim, place it before fastening the upper purlin screws.
- **Do not over-tighten!**
- **Stitching screws**: Fasten the at every 300-400 mm

Fastening Location

**Crest Installation with crest support**

1) External Purlins

2) Internal Purlins

**Valley Installation**

1) External Purlins

2) Internal Purlins

Crest Fixing

Valley Fixing

Stitching Screw
Screws and Washers Specification

Crest Fixing:
- Screws for metal purlins: Self-drilling 6.5mm (¼”) x 40mm (1½") screw with 19mm washer and EPDM gasket.
- Screws for wooden purlins: Tapping 6.5mm (¼”) x 50mm (2") screw with 19mm washer and EPDM gasket.

Valley Fixing:
- Screws for metal purlins: Self-drilling 6.5mm (¼”) x 25mm (1") screw with 19mm washer and EPDM gasket.
- Screws for wooden purlins: Tapping 6.5mm (¼”) x 40mm (1½") screw with 19mm washer and EPDM gasket.
- Washers: metal crest rider (Storm washers) with EPDM gasket or 25mm (3/4") PALRAM washers.
- Side Stitching: 6.5mm x 25mm (¼” x 1") self tapping screw with 19mm washer and EPDM gasket.

Accessories

Foamed polyethylene closure 988mm wide
 Closure strip = Crest support 610mm wide

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Cross Section</th>
<th>Dimensions mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal Ridge Cap</td>
<td><img src="image1.png" alt="Cross Section" /></td>
<td>2,280 x 270 x 270 (90 x 10 x 10)</td>
</tr>
<tr>
<td>Universal Ridge Cap</td>
<td><img src="image2.png" alt="Cross Section" /></td>
<td>2,280 x 150 x 150 (90 x 6 x 6)</td>
</tr>
<tr>
<td>Top Wall Trim</td>
<td><img src="image3.png" alt="Cross Section" /></td>
<td>2,280 x 50 x 150 (90 x 2 x 10)</td>
</tr>
<tr>
<td>Side Wall Trim</td>
<td><img src="image4.png" alt="Cross Section" /></td>
<td>2,280 x 50 x 130 (90 x 2 x 5)</td>
</tr>
</tbody>
</table>
**Important Notes**
- Use only PALRAM approved accessories, including EPDM rubber washers, silicons, sealing tape, closure fixtures etc.
- For clear PALRUF onto wooden purlins, apply white acrylic paint, or aluminum tape, in order to prevent overheating 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 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.

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