Profile: PALRUF® IRON 76 / 18 (Sinus)

Profile Drawing

(660,860, 1150 are also available)

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>0.8</td>
<td>1.5 - 11.8</td>
<td>900</td>
<td>830</td>
<td>7.8</td>
</tr>
</tbody>
</table>

Load / Span Data

<table>
<thead>
<tr>
<th>Load (kg/m²)</th>
<th>Maximum Roof Span (mm)</th>
<th>0.8 mm</th>
<th>1.5 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Mid Field</td>
<td>End Field</td>
</tr>
<tr>
<td>50</td>
<td>850</td>
<td>640</td>
<td>900</td>
</tr>
<tr>
<td>80</td>
<td>700</td>
<td>525</td>
<td>850</td>
</tr>
<tr>
<td>110</td>
<td>600</td>
<td>450</td>
<td>750</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.
- In vertical walls the spans can be increased by 10%.
- The mentioned load refers to both wind and snow loads.
- Minimum recommended slope – 10%.
- Maximum recommended panel length - 7.0 m.

Curved Roof

- Minimum curving radius 4.0 m.
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 (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 mm (4).

Fastening Location

![Diagram of fastening locations](image)

Screws and Washers Specification

- Crest fixing: Self-drilling 5.5mm (¼") x 40mm (1½") 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 19mm (3/4") self-tapping screw with 19 mm washer/gasket.

Important Notes

04/02/2009
• 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 / Sawing tools**
• Table or Portable circular saw with small teeth.
• Jigsaw.
• When Sawing use high blade speed and slow feed rate.
• Support the sheet in the vicinity of the cut and clean dust and splinters away.

**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.
• 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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