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>0.8 - 1.5</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>Maximum Roof Span (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0 mm</td>
</tr>
<tr>
<td></td>
<td>Mid Field</td>
</tr>
<tr>
<td>75</td>
<td>1250</td>
</tr>
<tr>
<td>100</td>
<td>1150</td>
</tr>
<tr>
<td>125</td>
<td>1050</td>
</tr>
<tr>
<td>150</td>
<td>950</td>
</tr>
</tbody>
</table>

- The dimensions specified 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.
- For single span application use the end field column.
- The mentioned load refers to both wind and snow loads and intended for rooflights only.
- Minimum recommended slope – 10%.
- Maximum recommended panel length - 7.0 m.

Curved Roof

- Minimum curving radius 6.0 m.
Positioning
- Make sure the UV protected side faces out.
- Lay the SUNTUF panel to overlap roof panels on both sides. If not feasible -
- SUNTUF Rooflight panels must underlap the roof panels against the primary direction of rain.
- The SUNTUF sheet 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 SUNTUF 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

Screws and Washers Specification
- Crest fixing: Self-drilling 5.5mm (¼”) x 65mm (2½”) screw + matched metal crest rider (Storm washers) with EPDM gasket.
- Side Stitching: 5.5mm x 25mm (¼”x1”) Stitching Screws (Grommet seals) with EPDM seal.
**Important Notes**

- Use only PALRAM approved accessories, including EPDM rubber washers, silicones, sealing tape, closure fixtures etc.
- For clear SUNTUF 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 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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