SUNTUF® Rooflights Technical Guide
Profile: 9400 (R-101)

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>144 / 24.6</td>
<td>1-1.5</td>
<td>1.5 - 11.6</td>
<td>1067</td>
<td>1008</td>
<td>5.2</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></td>
<td>1.0 mm</td>
</tr>
<tr>
<td></td>
<td>Single Span</td>
</tr>
<tr>
<td>50</td>
<td>1150</td>
</tr>
<tr>
<td>75</td>
<td>1000</td>
</tr>
<tr>
<td>100</td>
<td>900</td>
</tr>
<tr>
<td>125</td>
<td>850</td>
</tr>
<tr>
<td>150</td>
<td>800</td>
</tr>
</tbody>
</table>

- The specified dimensions do not supersede the requirements of local construction codes.
- The given spans are according to deflections criterion of L/20, and minimum slope of 10%.
- The maximum roof spans are based on calculation model and practical testing.
- The mentioned load refers to wind and snow load only.
- For vertical application spans can be increased by 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 10.0 m.
Positioning

- Make sure the UV protected side faces out.
- **Lay the SUNTUF panel to overlap metal panels on both sides.** If not feasible –
- Insert support between the purlin and SUNTUF underlap where overlapped by the metal panel.
- SUNTUF Rooflight panels must underlap the metal 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 along the Side-Lap metal panel’s corrugation crests, on both sides.
- Apply sealing tape along the SUNTUF panel’s side-lap, where covered by the Metal 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 (2).
- Start fastening the screws on the lower edge purlin (End-lap), on every other corrugation crest (1).
- Fasten screws at the internal and upper edge purlins, on every other corrugation crest, starting at the same side (1, 2).

- **Do not over-tighten!**
- Fasten the stitching screws at every 300-400 mm (3).

**Fastening Location**

(1)

(2)

(3)

**Screws and Washers Specification**

- Crest fixing: Self-drilling 5.5mm x 50mm (2") screw + matched metal crest rider (Storm washers) with EPDM gasket.
- Side Stitching: 5.5mm x 19mm (3/4") self-tapping screw with 19 mm washer/gasket.
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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 dry 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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