SUNTUF® Plus Installation
Profile: Omega 18.5/180

Product Description:
- SUNTUF Plus - Co-extruded UV protected, anti-fog treated Polycarbonate panel.

Profile drawing:

<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>18.5/180</td>
<td>0.8</td>
<td>1.5 - 11.6</td>
<td>1854</td>
<td>1800</td>
<td>2.9</td>
</tr>
</tbody>
</table>

Load / Span Data

<table>
<thead>
<tr>
<th>Maximum Roof Span (mm)</th>
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<tbody>
<tr>
<td>Load (kg/m²)</td>
</tr>
<tr>
<td>60</td>
</tr>
<tr>
<td>90</td>
</tr>
<tr>
<td>120</td>
</tr>
<tr>
<td>150</td>
</tr>
<tr>
<td>180</td>
</tr>
<tr>
<td>210</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.
- In vertical walls the spans can be increased by 10%.
- Minimum recommended slope – 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. 100mm beyond the last fixings line.

Curved Roof
- Minimum curving radius 5.0 m.
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Positioning
- Make sure the UV protected side faces out.
- Apply one corrugation side-lap. Two corrugations side-lap is recommended for low roof slope and/or high wind areas.
- Install SUNTUF panels against the primary direction of rain and winds.
- The SUNTUF panels must be located and installed without any stresses.
  Do not pull, stretch or force the sheets when the profiles are not perfectly matched.
- SUNTUF sheets should overhang Min. 50mm and Max. 100mm beyond the last fixings line.

Fastening
- Apply sealing tape over the SUNTUF panel side-lap corrugation crests, where covered by the next panel.
- Apply the sealing tape along the bottom and top End-lap (if relevant).
- Apply the sealing tape under the screw’s centerline, or two tapes on both sides of the screw’s centerline.
- Pre-drill 10mm holes at screws location.
- Start fastening the screws from the first side-lap (left) through the pre-drilled holes (1).
- Start fastening the screws on the lower edge purlin (End-lap), through every valley (1) (2).
- Fasten screws at the internal purlins, through every valley, starting at the same side (3).
- Fasten screws at the upper edge purlin, through every valley, starting at the same side (2) (4).
- Fasten overlaps corrugation at the crests over each purlin (4).
- Fasten the stitching screws at every 300-400 mm (6).
- Do not over-tighten!

Screw fixing scheme
2) Edge purlin – 10 valley screws

3) Interior purlins – 8 valley screws
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Screws and Washers Specification
- **Crest fixings** (Side-laps): Self-drilling 6.3mm (¼") x 50mm (2") screw (4) + 19mm Palram Washer/Gasket.
- **Valley fixings**: Self-drilling 6.3mm (¼") x 38mm (1½") screw (5) + 25mm Palram Washer/Gasket.
- Washers: Valley - 25mm, Crown (Side-lap) – 19mm.
  (Galvanized / aluminum / stainless metal washer attached to EPDM gasket of 55 to 65 shore hardness)
- Side Stitching: 6.3 x 25mm (¼"x1") Self Tapping Screws with 19mm EPDM washer/gasket or metal lap Clip (6).

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