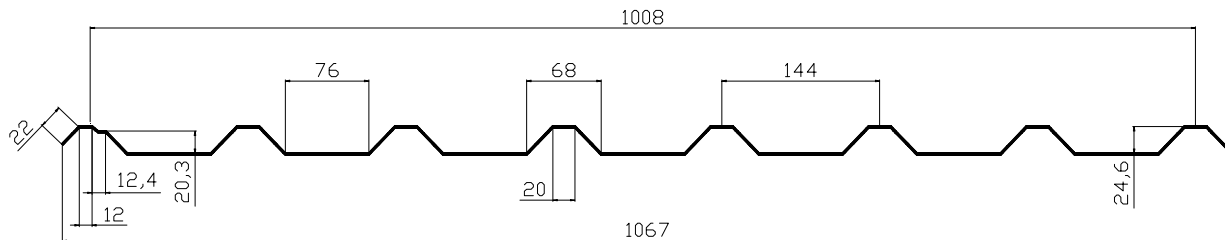


SUNTUF® Rooflights Technical Guide

Profile: 9400 (R-101)



Profile Drawing



Profile Dimensions

| Profile (mm) | Thickness (mm) | Length (m) | Overall width (mm) | Cover Width (mm) | Side-Lap (%) |
|--------------|----------------|------------|--------------------|------------------|--------------|
| 144 / 24.6 | 1-1.5 | 1.5 - 11.6 | 1067 | 1008 | 5.2 |

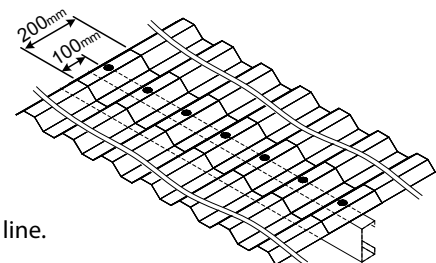
Load / Span Data

| Load (kg/m ²) | Maximum Roof Span (mm) | | | | | |
|---------------------------|------------------------|------------|-------------|------------|-------------|------------|
| | 1.0 mm | | 1.2 mm | | 1.5 mm | |
| | Single Span | Multi Span | Single Span | Multi Span | Single Span | Multi Span |
| 50 | 1150 | 1350 | 1250 | 1400 | 1350 | 1550 |
| 75 | 1000 | 1150 | 1050 | 1250 | 1150 | 1350 |
| 100 | 900 | 1050 | 950 | 1100 | 1050 | 1200 |
| 125 | 850 | 950 | 900 | 1050 | 950 | 1100 |
| 150 | 800 | 900 | 850 | 950 | 900 | 1050 |

- 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.



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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.



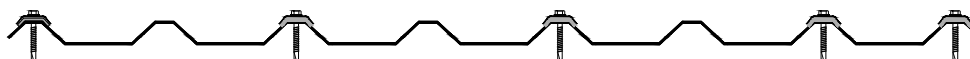
Fastening

- 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

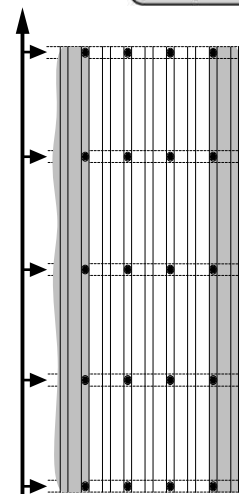
(1)



(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.**



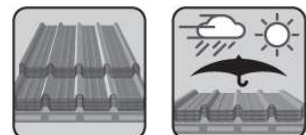
Safety

- 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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