

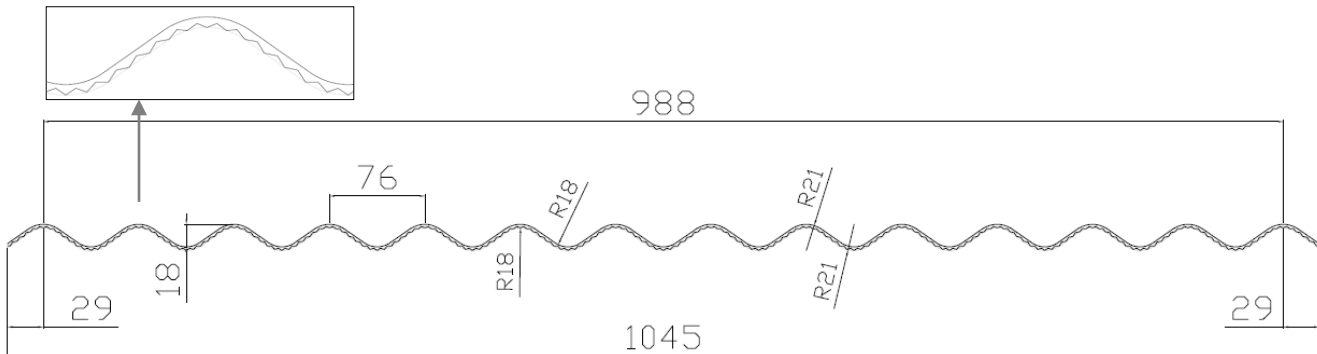
SUNTUF® Rooflights Technical Guide

Profile: BH (Iron 76/18)



01/08/2022

Profile Drawing



Profile Dimensions

| Profile (mm) | Thickness (mm) | Length (m) | Overall width (mm) | Cover Width (mm) | Side-Lap (%) |
|--------------|----------------|------------|--------------------|------------------|--------------|
| 76 / 18 | 2.8 | 1.5 - 7 | 1045 | 988 | 5.5 |

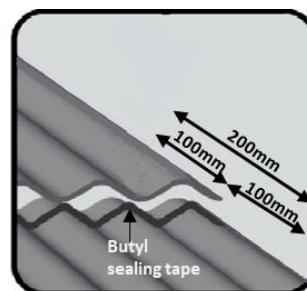
Load / Span Data

| Load (kg/m ²) | Maximum Roof Span (mm) | Maximum Wall Span (mm) |
|---------------------------|------------------------|------------------------|
| | 2.8 mm | 2.8 mm |
| 50 | 1400 | 1540 |
| 75 | 1300 | 1430 |
| 100 | 1200 | 1320 |
| 125 | 1175 | 1295 |
| 150 | 1150 | 1265 |
| 175 | 1125 | 1240 |
| 200 | 1100 | 1210 |

- 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 overlaps of 200mm above purlin.
- Each panel to extend 100mm over the fixings line on the purlin.
- Butyl sealing tape **must** be used so seal the gap between the sheets.
- Panels should overhang Min. 50mm and Max. 150mm beyond the last fixings line.



Curved roof

- Minimum curving radius 7.0 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.
- Side-lap of SUNTUF panels should be installed against the primary direction of rain.
- The SUNTUF panels should 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. 150mm beyond the last fixings line.



Sealing - Recommended

- 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), 2 cm down slope screws centerline or two tapes on both sides of screw centerline.



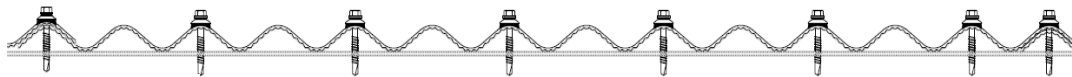
Fastening

- 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.
- 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 (1).
- **Do not over-tighten!**

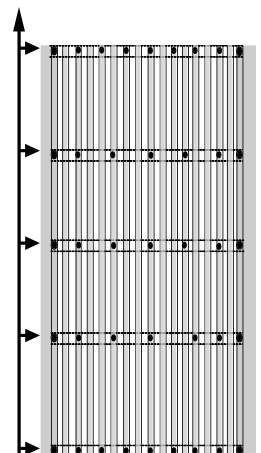
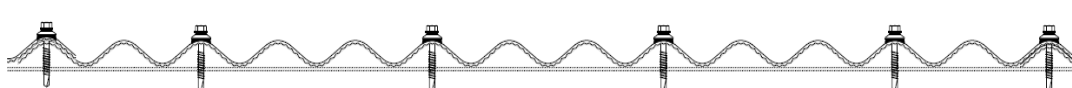


Fastening Location-for Wall and Roof installation

1) External Purlins



2) Internal Purlins



Screws and Washers Specification

- Crest fixing: Self-drilling 6.5mm (1/4") x 50mm (2") screw with 19/25mm diameter- galvanized / Aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
- In areas with strong winds, when roof slope is low use storm washer with EPDM gasket.

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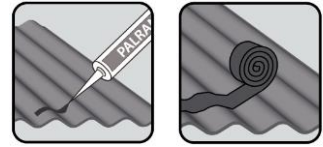
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Important Notes

- 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.



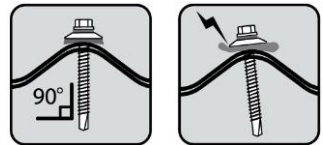
Cutting Tips

- 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.**



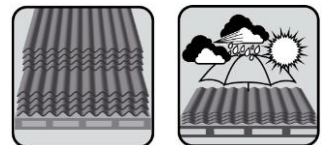
Safety

- 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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