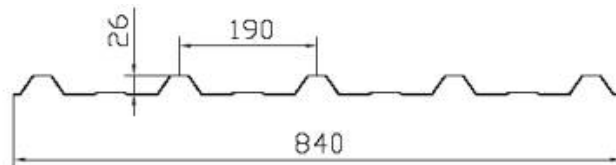


SUNTUF 190/26F (Trimdek) Installation Guide for Skylights



Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Width (mm)	Effective Width (mm)	Side-Lap (%)
190/26	1-1.5	1.5 - 11.6	822	760	9.5



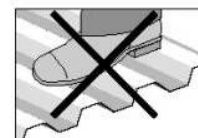
Load / Deflection Data

Load kg/m ²	Deflection (%)			
	1.0 mm		1.2 mm	
	Span 1500 mm	Span 1800 mm	Span 1500 mm	Span 1800 mm
50	2.6	2.7	2.6	2.7
100	4.0	4.4	3.6	4.0
120	4.0	4.4	4.0	4.4
150	4.6	5.0	4.3	4.8
200	4.6	5.0	4.6	5.0

- Maximum deflection is 5% of the span.
- The dimensions depicted do not supersede the requirements of local construction codes.
- Purlins spans are based on the panel's structural properties, sheet deflection, potential wind and snow load, hail and other applicable factors according to usual construction practice, loading test, professional expertise and previous field experience.
- Minimum recommended slope for a new roof – 10%.
- The table is based on one span, one panel and installing according to the Installation Guide.

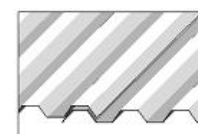
Safety

- Do not step directly on the sheets - before, during and after installation.
- Work according to local safety regulations.
- Use stepping ladder or crawling boards.



Positioning

- The SUNTUF sheet must be installed without any stresses. Do not pull, stretch or force the sheets when the profiles are not perfectly matched.
- Always install with the UV protected side facing out.
- The sheets must be laid on the roof against the primary direction of rain.
- It is strongly recommended to lay the sheet with two side laps on top of the metal sheets.



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Roof and Wall Positioning and Fastening

- Start fastening the screws on the Side Lap at the side where the SUNTUF sheet over-laps the metal one; fasten on the corrugation crest at every purlin.
- Fasten the screws on the lower edge purlin, each crest and each mid valley starting at the same side.
- Fasten at the internal purlins, at each valley, on one side of every corrugation.
- Fasten the screws at the upper edge purlin, at each valley on both sides of every corrugation, starting at the same side.
- Fasten the stitching screws at the overlaps, starting at the same side, approximately every 300 mm.



Internal Purlin Fasteners location



External Purlin Fasteners location

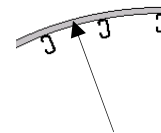
Stitching screw

Use Sheet to Sheet EPDM stitching screw between the purlins, every 300mm, to improve side lap sealing and to connect the SUNTUF sheet in four sides.



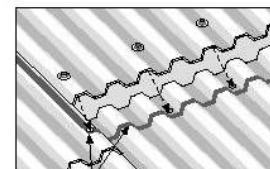
Curved Roof Fastening

Minimum curving radius along the corrugations - 11.0 m.



Side-Lap

- Start from the side where the SUNTUF sheet over-lap on top of the metal sheet.
- Clean the metal crest and apply the sealing strip.
- Apply the sealing tape on last crest in the other side of the SUNTUF sheet, place it under the next sheet.
- Apply sealing strip along the crest centerline.



End-Lap

- Install in the same line of the metal panels.
- Maximum overhang up to 150 mm from screw centerline.
- Minimum overhangs 50 mm from centerline.
- Apply sealing strip along screws centerline.

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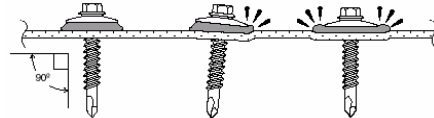
Screws and Washers

- Valley fixing - Self-drilling $\frac{1}{4}$ " x $1\frac{1}{2}$ " screw.
- Crest fixing (Side lap) - Self-drilling $\frac{1}{4}$ " x $2\frac{1}{2}$ " screw.
- Recommended washer/gasket: 25mm diameter- galvanized / aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
- Never use PVC washers or any unapproved material.
- **PALRAM washers are highly recommended.**
- When installing a curved roof it is recommended to use a compatible crest rider with EPDM attached gasket, as shown in the drawing to the right.
- **It is recommended to pre-drill the screw holes in the Suntuf sheets, 3-4 mm bigger diameter than the screw.**



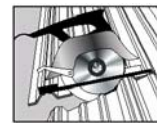
Fastening Tips

- Use adjustable electric screwdriver.
- The screw must be installed perpendicular to the SUNTUF sheet.
- **Important - Do not over-tighten!**



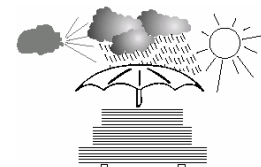
Cutting / Sawing tools

- Table or Portable circular saw with small teeth.
- Jigsaw.
- Metal shears.
- When sawing use high blade speed and slow feed rate.



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 damage.



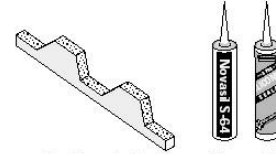
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Accessories

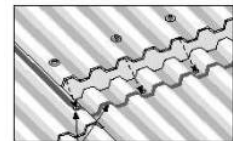
Use only PALRAM approved accessories

- Compatible Silicone.
- Butyl Rubber or Expanding Sealing Strip.
- Closure Fixtures.



Assembling the Sealing Strip

- Clean the surface before applying the strip.
- Apply the strip slowly, uniformly and with no stresses.
- Apply one strip line along the screw holes location or 2 strip lines on both sides of the screw holes line.



Important Notes

- Be sure to install the UV protected side facing out.
- Avoid any stress source.
- **Pre drilled holes – Oversized holes should be 3-4mm wider than the screw diameter.**
- Do not over-tighten.
- Avoid contact or installation in a highly chemically corrosive environment.
- Use only approved accessories, including rubber washers, silicones, sealing strip, closure fixtures etc. soft PVC washers looking exactly like EPDM washers are not approved for use with Polycarbonate sheets.
- Avoid contact with non-compatible chemicals and materials, including aluminum lubricants.

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