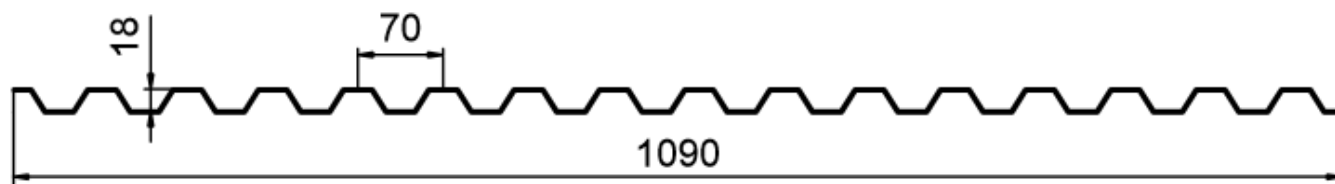


# Palruf

## Technical Guide

### Greca 70



### Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Width (mm)	Cover Width (mm)	Side Lap (%)
70 / 18	1.3	1.5 – 11.6	1090	980	10.1

### Load / Span Data

Load (kg/m <sup>2</sup> )	Max Purlins Span (mm)
50	1000
80	900
110	800

- ❖ 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 construction practice, professional expertise and previous field experience.
- ❖ In vertical walls the spans can be increased by 10%.
- ❖ Minimum recommended slope for new roof – 10%.
- ❖ Maximum recommended sheet length – 7.0m.



### Safety

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



### Positioning

- ❖ The sheets must be laid on the roof against the primary direction of wind and rain.
- ❖ The Palruf sheet must be installed without any stresses. Do not pull, stretch or force the sheets when the profiles are not perfectly matched.

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### Curved Roof Fastening

- ❖ Minimum curving radius along the corrugations – 4.0m.

### Roof and Wall Positioning and Fastening

- ❖ Start fastening the screws on the side lap where the Palruf sheet over-lap the previously installed sheet.
- ❖ Fasten the screws on the lower edge purlin, each second corrugation crest, starting at the same side.
- ❖ Fasten at the internal purlins, at each third corrugation crest.
- ❖ Fasten the screws at the upper edge purlin, at each second crest, starting at the same side.
- ❖ Wall mounting (cladding) – the same as roofing.

### External Purlin Fastener location



### Internal Purlin Fastener location



### Side-Lap

- ❖ Use low corrugations side-lap where the slope smaller than 10%, long span and large rain loads.
- ❖ Start from the side where the Palruf sheets overlap on top of the other sheet.
- ❖ Apply sealing tape along the crest centreline.
- ❖ Use sheet to sheet (stitching) fasteners between the purlins, every 300-400mm.

### End-Lap

- ❖ Maximum overhand up to 100mm from screw centreline.
- ❖ Minimum overhangs 50mm from screw centreline.
- ❖ Apply sealing strip along the screws centreline.
- ❖ Roof edge – not more than 100mm.

### Stitching Screw

- ❖ Stitching screws are needed for improving side lap sealing in case of slope smaller than 10%, long spans and large rain loads.

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### Screws and Washers

- ❖ Crest fixing – Self drilling ¼" x 1½" screw.
- ❖ Recommended washer/gasket: 19mm diameter-galvanised / aluminium / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
- ❖ Never use PVC washers or any unapproved material.
- ❖ When installing a curved roof it is recommended to use a compatible crest rider with EPDM attached gasket.
- ❖ It is recommended to pre-drill the screw holes in the Palruf sheets, 3-4mm larger diameter than the screw.



### Fastening Tips

- ❖ Use adjustable electric screwdriver.
- ❖ The screw must be installed perpendicular to the sheet.
- ❖ Important – DO NOT OVER-TIGHTEN!



### Cutting / Sawing Tools

- ❖ Table or Portable circular saw with small teeth.
- ❖ Jigsaw.
- ❖ When sawing use high blade speed and slow feed rate.
- ❖ Support the sheet in the vicinity of the cut and clean dust and splinters away.



### Handling and Storage (Packet Sheets)

- ❖ 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.



### Accessories

- ❖ Compatible silicone sealant.
- ❖ Butyl rubber or expanding sealing-tape.
- ❖ Closure fixtures.



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### Drilling

- ❖ Hole diameter must be 3-4mm larger than the diameter of the screw.
- ❖ Support the sheet in the vicinity of the hole and clean dust and splinters away.
- ❖ The drill should be held perpendicular to the sheet surface.



### Applying the Sealing Tape

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

### Important Notes

- ❖ Be sure to install the UV protection side facing the sun radiation.
- ❖ Avoid any stress source.
- ❖ Pre-drilled holes – Oversized holes should be 3-4mm wider than the screw diameter.
- ❖ Do not over-tighten.
- ❖ Use approved accessories only, including rubber washers, silicones, sealing tape, closure fixtures etc.
- ❖ Avoid contact with non-compatible chemicals and materials.