

NEW POLYGRECA

Corrugated Polycarbonate Roofing Sheet



CARPORTS • CANOPIES • SWIMMING POOLS • SMOKING SHELTERS • GARAGES

LOADING BAYS • KENNELS & CATTERIES • COMMERCIAL GREENHOUSES



IDEAL FOR ANTI-VANDAL INSTALLATIONS

PROTECTS AGAINST HARMFUL UV RAYS

WITHSTANDS EXTREME TEMPERATURES

LIGHT DIFFUSING OPAL SHADE

MODERN 76/18 GRECA BOX PROFILE

EASY TO HANDLE SHEET

AVAILABLE IN LENGTHS UP TO 6 m

10YR GUARANTEE AGAINST HAILSTONE DAMAGE



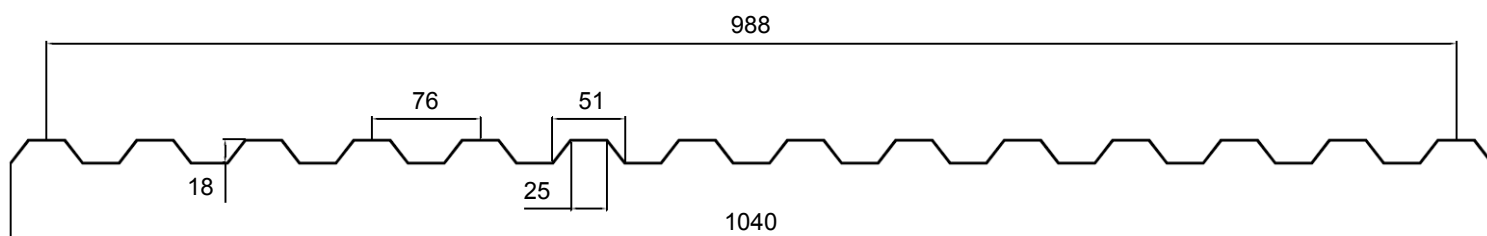
MUCH STRONGER THAN CORRUGATED P.V.C.



Rockwell
BUILDING PLASTICS

NEW POLYGRECA

Corrugated Polycarbonate Roofing Sheet



Technical Specification

Sheet width / cover width	1040mm wide - 988mm cover (standard overlap) or 912mm cover (double overlap)
Stock sheet length	2.0m, 2.5m, 3.0m, 4.0m, 5.0m, 6.0m
Sheet colour	Diffusing opal white
Thermal conductivity	0.21 W/m K
Light transmission	Opal: 65%
Minimum bending radius	4.0m
Load / spanning data	50Kg/m ² - 1100mm 80Kg/m ² - 1000mm 110Kg/m ² - 900mm
Thermal expansion	6.5mm x 10 ⁻⁵ (mm/mm °C)
Minimum recommended pitch	10°
Working temperature range	-50°C to +120°C (+100°C long term exposure)
Fire classification	Euroclass EN13501-1 2006 B-s1, do (UK Class 0 equivalent)
Warranty period	10 years
Accessories available	Fixings, profiled eaves fillers, lap tapes from stock & metal ridges/flashings to order

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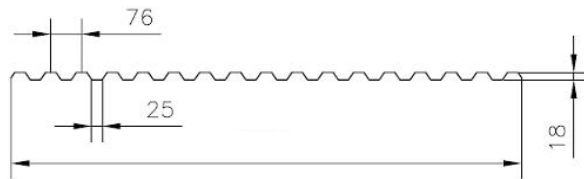


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Installation Guide

Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Width (mm)	Effective Width (mm)	Side-Lap (%)
76/18	0.8	2.0-6.0	1040	988	5.0



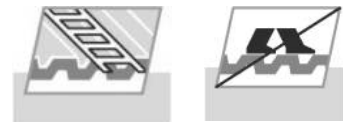
Load / Span Data

Load (kg/m ²)	Maximum purlin Span (mm)
50	1100
80	1000
110	900

- The dimensions depicted do not supersede the requirements of local construction codes.
- Purlin 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 a new roof – 10%.
- Maximum recommended sheet length – 7.0 m.

Safety

- Do not step directly on 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 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.



Installation Guide

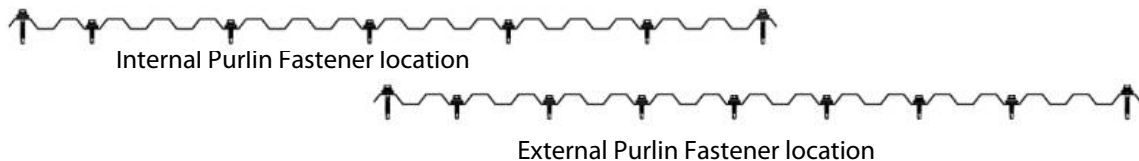
Curved Roof Fastening

- Minimum curving radius along the corrugations - 4.0 m.



Roof and Wall Positioning and Fastening

- Start fastening the screws on the Side Lap where the sheet over-laps the previously installed sheet.
- Fasten on the corrugation crest at every purlin.
- Fasten the screws on the lower edge purlin, each second corrugation valley, starting at the same side.
- Fasten at the internal purlins, at each third corrugation valley.
- Fasten at the upper edge purlin, at each second corrugation valley, starting at the same side.
- Wall mounting (cladding) – The fasteners at the corrugations valley, except at the side-lap.



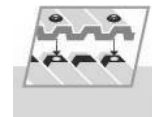
Side-Lap

- Use 2 corrugations Side Lap where the slope smaller than 10%, long spans and large rain loads.
- Start from the side where the sheet over-laps the other sheet.
- Apply sealing tape along the crest centerline.
- Use sheet to sheet (stitching) fasteners between the purlins, every 300-400 mm .



End-Lap

- Maximum overhang up to 100 mm from screw centerline.
- Minimum overhangs 50 mm from screw centerline.
- Apply sealing tape along screws centerline.
- Roof edge – not more than 100 mm



Stitching screws

Are needed for improving side lap sealing in cases of slope smaller than 10%, long spans and large rain loads.



Installation Guide

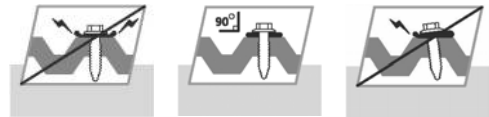
Screws and Washers

- Valley fixing - Self-drilling ¼"x 1" screw.
- Crest fixing - Self-drilling ¼"x 1 ½" screw.
- Recommended washer/gasket: 19mm 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.
- Rockwell fixings and washers are recommended.
- 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 sheets, 3-4 mm bigger 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

- 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 (Packed 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

Use only approved accessories

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



Installation Guide

Drilling

- The hole diameter must be 3-4 mm 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 Strip

- 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 protected 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 only approved accessories, including rubber washers, silicones, sealing strip, closure fixtures etc. Soft PVC washers looking exactly like EPDM washers are not compatible with Polycarbonate sheets.
- Avoid contact with non-compatible chemicals and materials.

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