



COROLITE

CORRUGATED POLYCARBONATE SHEET

A high performance, robust, lightweight rooflight material ideal for glazing, cladding and canopies. Suitable for both timber and steel framed structures. Available in Bronze tint only.

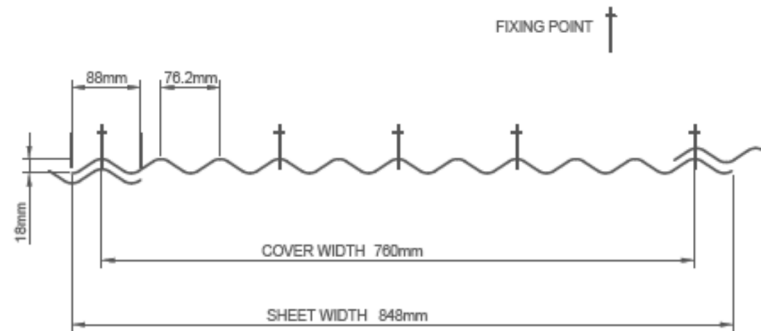
It is co-extruded with UV protection on the top surface which significantly reduces discolouration and prolongs the useful life of the sheets. Corolite sheet is up to 200 times more impact resistant and shatter resistant than glass – ideal for areas prone to vandalism or hail storms. It can withstand temperature extremes from -40°C to +100 °C. The sheet carries a 10 year light transmission warranty and a 3 year weather breakage warranty.



Sheet Width	848mm
Cover Width	760mm
Sheet Thickness	0.8mm
Light Transmission	32%
U-Value	5.72W/m2K

Product Code	Sheet Length
76916	3000mm
76914	2400mm
76912	1800mm

INSTALLATION



General Guidelines

Installation is straightforward but it is important that the following rules are applied to every installation. Ensure that safe working methods are adopted and appropriate safety equipment is used. Ensure that sealants and tapes are compatible with polycarbonate. Ensure that all accessory materials are light in colour, preferably white.

Storage

If Corolite sheets must be stored before use, place them on a flat surface, preferably indoors. If outside, protect from the sun, wind and water using an opaque, waterproof sheet.

Sheets

Corolite has a very high coefficient of linear expansion; a 3m long sheet will expand by 5mm for a temperature rise of 25°C. It is important to ensure sheets are of optimum length to cope with this thermal movement. When laying sheets, ensure the clearly marked UV protected surface is uppermost, and that there is a minimum roof pitch of 5 degrees. Lay side laps away from the prevailing wind.

Tools

Corolite can be cut or drilled using standard hand or power tools. To cut the sheet, use a fine tooth circular saw, snips or a hand-saw at a shallow angle. To drill the sheet, use a standard twist drill bit. Holes must be at least 30mm from the end of the sheet.

Fixing Hole Size

Holes for fixings must be drilled oversized to accommodate thermal movement. For a sheet up to 2m in length, holes should be 6mm greater in diameter than the fixing shank. For a sheet up to 3m in length, holes should be 9mm greater in diameter than the fixing shank.

Fixings

Fixings must go through the corrugation crowns, be perpendicular to the surface and have compatible 29mm washers. Fixings should not be over-tightened as this will prevent thermal movement. Avoid plastic coated steel and acidic cure sealants.

The sheet must be fixed according to the fixing pattern in the diagram above, with sheet side laps of 88mm, and fixings through the overlap at each side of the sheet, into the purlins. Additionally, three more fixings are required across the middle of the sheet, into each purlin. Purlins are required at the top end and bottom end of each sheet, and extra purlins between no more than 700mm apart.

Sheet Length	Minimum number of Purlins	Approx Fixings per sheet
1.8m sheet	3	15
2.4m sheet	4	20
3.0m sheet	5	25

MAINTENANCE

To maintain the light transmission of any glazing material, periodic cleaning is necessary. Corolite must be cleaned with some care, as it is not resistant to all cleaners and the surface can be marked easily. The recommended cleaning procedure is as follows:

1. Use lukewarm water to rinse the sheet and soften any dried dirt
 2. Make up a solution of lukewarm water and ordinary household cleaner or a mild soap and use this to wash the sheet
 3. Use a sponge or soft cloth to gently remove dirt and grime
 4. Rinse with clean lukewarm water and repeat washing if necessary
 5. After the final rinse, dry off with a soft cloth
- Never scrub Corolite with brushes, abrasive materials or sharp tools
 - Never use strong alkali or abrasive cleaners
 - Never steam clean: use low pressures if pressure washing
 - Never use acetone, petrol, benzene, or solvents containing Butyl Cellosolve or Isopropanol

It is advisable to test the suitability of any cleaner on a sample piece of Corolite first. After installation, labels, glazing compounds etc. can be removed using petroleum spirit, after which, wash the sheet as described in the above procedure.