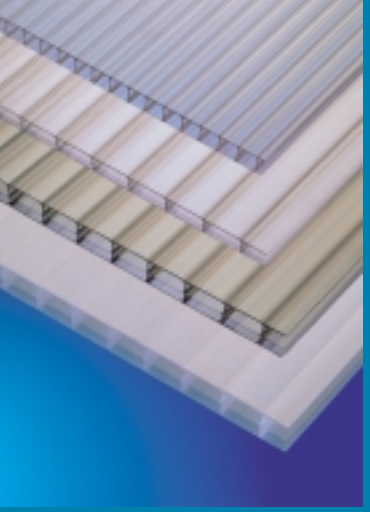


Corotherm Polycarbonate sheet is produced by an advanced manufacturing process giving the sheet the following important properties:

Ultra clear sheet
Also available in a range of tints
Strong and resistant to impact

Corotherm®

Polycarbonate Insulating Roofing Sheet

FEATURES

Available in clear, bronze, opal and bronze opal
Available in a wide range of thicknesses
Very strong and resistant to impact fracture
Fire rated 'Class 1' for safety
Light in weight
Thermally insulating
Easy and quick to install
Minimum condensation risk
UV protected for durability
Largely self-cleaning
Guaranteed 10 year warranty
Range of sheet sizes

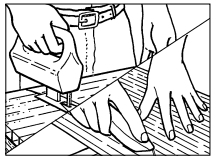
APPLICATIONS

Wherever heat insulation, reduced condensation, or simply a more attractive glazing material is required

CONSERVATORIES
EXTENSIONS
CAR PORTS
PORCHES
SWIMMING POOL COVERS
ROOFLIGHT FEATURES

Sheet Preparation

Once the glazing bar spacing has been calculated, according to the sheet thickness and means of support, it may be necessary to cut sheets to size.



Corotherm can be cut very easily and will not crack or shatter. When cutting parallel to the flutes a sharp knife can be used but when cutting across the flutes a fine toothed saw is required. For cutting curves, use a fine toothed jigsaw. Cutting dust may be removed by vacuum. If any dust is held in the flutes by static, simply leave the sheet until the static charge dissipates, then vacuum. Fix sealing tape at the top end of each piece of Corotherm and perforated breathing tape at the bottom.

In order to provide weather protection at the top of the slope, rake out the mortar joint immediately above the point at which the sheeting will meet the wall - this will be used for the top edge of a length of Ariel Aluminium or Butyl Flashing.

Glazing Bar Preparation

Rafter or Purlin Supported System - Carefully insert the bottom seals to avoid stretching. Working from one end press into place.

Ariel Rafter Supported Glazing Bar - Screw the bottom half of the glazing bar to the rafter at approximately 400mm centres
Ariel Purlin Supported Bar - Screw the bottom half of the glazing bar to every purlin ensuring the purlin spacing is not greater than 1500mm.

Use screws of suitable length usually half the depth of the support being used. Screws should be sealed in waterproof mastic, striking off any surplus after driving the screws.

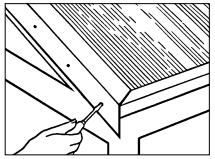
Self Supporting System - Refer to the detailed fitting instructions supplied with the glazing bar components.

Flashing Preparation

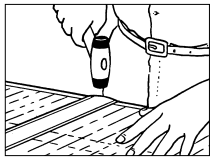
Begin installation at one flank of the slope, by preparing a length of side flashing. The apron of the side flashing should be pre-drilled to accept screw fixings and these holes should be 3mm oversize, to allow expansion and contraction of the flashing. In situations where the sheeting is to be installed abutting an end wall, the side flashing may be inverted so that the apron forms an upstand and finished using Ariel Aluminium or Butyl Flashing, stepped into the brickwork coursing.

Installation

Peel back the protective film from the edges of the first prepared sheet, ensuring that the sealing tape will be at the top of the slope and the perforated breathing tape is to the bottom of the slope. Run a bead of clear low-modulus silicone sealant into the prepared side flashing and push the sheet into



position with the printed film uppermost. At least one vertical rib of each Corotherm sheet should engage within the glazing bar. Attach the side flashing to the side of the roof, then check the important 3mm expansion clearance at the side of the sheet



and a 10mm expansion gap at the top of the slope. Begin to install the flashing at this stage, carefully following the fixing instructions. Lay the second sheet in position then, starting at the downslope end, line up the ends of the cap and base and tap home with a rubber mallet, or woodblock and hammer until the edge seals have flattened against the sheet. Corotherm glazing bar caps have co-extruded integral sealing strips for permanent weather protection. Over driving the glazing bar cap may cause noise from the sheets as they expand and contract with temperature changes. Continue laying sheets and glazing bar caps in this manner until reaching the final sheet. Before installing this sheet press the second side flashing into place, using clear low-modulus silicone sealant as before.

Continued overleaf....

ariel®