

EXTERIOR CLADDING - PRODUCT SPECIFICATION

BGC Duracom™

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BGC Duracom™ façade system is ideal for the exterior cladding of low to medium-rise buildings. Utilising BGC's compressed fibre cement sheeting, BGC Duracom™ delivers a durable finish with a smooth, flat surface and square edge.

APPLICATION

Exterior cladding

AUSTRALIAN STANDARDS

Manufactured to conform to the requirements of AS2908.2 Cellulose-Cement Products and are classified as Type A Category 3 for external use.

Tested in accordance to AS1530.3

Tested in accordance to AS/NZS 4284 Testing of Building Facades

INSTALLATION

The deflection of the Top Hats is based on serviceability factor of 0.67 x ultimate wind loads and is limited to span/240. The Top Hat sections can be used for Cyclonic wind areas – region C & D based on wind pressures. The top hat sections can be used for Cyclonic wind areas- Region C & D based on Design ULS Wind Pressures. For installations up to 0.98kPa, maximum batten span & spacings are 1450mm & 600mm respectively, and maximum fixing spacings are 600mm. For installations up to 5.8kPa, maximum batten span & spacings are 900mm & 450mm respectively, and maximum fixing spacings are 300mm on panel edges and 250mm away from edges. It is the responsibility of the Project Engineer to specify the connection of Top Hats to the support structure. For example, minimum 12g screw on each leg of Top Hat i.e. two 12g screws at each crossing of Top Hat & Frame, and minimum steel frame specification 1.5mm bmt and G450 material.

Fix the Top Hats to the steel frame using Hex Head Self-Drilling Screw fasteners ensuring that both legs of the Top Hats are fixed to the structural framing. Also, ensure that the Top Hats are mounted vertically using a spirit level to check. For inclined or diamond patterns, check that the inclined angle of the Top Hats is correct. The Top Hats must be fixed on both legs to minimise flexing of the Top Hats.

Apply the EPDM Foam Gasket Strip to the primary 120mm Top Hat. The seal can be applied to the mounted Top Hat in situ or it can be applied to the Top Hat, before it is fixed to the Purlins. Ensure that the EPDM Foam Gasket Strip is applied to the centre of the purpose designed Primary 120mm Top Hat.

Set out, pre-drill and countersink the holes in the panels to be mounted, as set out in the table hereunder. Screw holes must be pre-drilled, allowing 1mm clearance over diameter of screw. Holes must be drilled using a masonry drill bit. Do not use an impact drill. Where screws are to be countersunk, depth must be controlled by gauge to restrict head depth to 1.5mm maximum.

Where the screws are to be exposed install the Duracom™ Weather Seal into the predrilled hole in the panel. Drive the screw through the Weather Seal and into the Top Hat using an electric screw gun. GC recommends the use of a screw gun with torque control to prevent overdriving of screws.

For cyclonic wind conditions up to 5.8kPa batten spacing is 450mm max. with fasteners at 250mm max. internal spacing and 300mm max. sheet edge spacing.

Fix the bottom row of boards allowing a 20mm overlap over the EPDM Foam Gasket. Leave the top row of screws in the board loose to facilitate the insertion of the backing strip to the board.

At the horizontal joints between the Duracom™ panels, the Horizontal Backing Strip must be bonded to the back of the Duracom™ panel to form a socket to which the Duracom™ panels above are fixed over. Set the backing strip 3-5mm from the edge of the Duracom™ panel. Seal the cut edge with BGC Edge Sealer.

Use the backing strip to space the vertical joint of successive boards ensuring a uniform 10mm space between successive boards.

Insert the backing strip behind the top of the board. Leave fasteners loose, along the top edge of the panels to facilitate insertion of backing strip.

Installation of the next layer of board – Apply a bead of the polyurethane sealant to the top of the backing strip and then rest a pre-drilled panel on the top of the horizontal backing strip.

Refer to the BGC Duracom™ and Duracom Greystone brochure for complete installation instructions – www.bgcinnovadesign.com.au