



## Specifications SERIES CW Fiberglass Curtain Wall

### **Description:**

An exterior glazed fiberglass curtain wall system into which operating windows may be planted. Excellent thermal performance for large areas of glass. The system may be supplied pre-fabricated, or fabricated at the job site in certain circumstances with the right tools and a qualified distributor.

### **Material:**

Frames shall be made with tubular 5 3/4" x 2 1/2" tubular pultruded fiberglass lineals. All frame profiles shall have a nominal wall thickness of 5.4mm (0.213") with minimum glass content of no less than 60%. The frames are available with integrated colour in either white or gray. Select frame cavities shall be filled with foam insulation, EPS – Density 20. Accessory members may be aluminum or vinyl and identified as such.

### **Construction:**

A curtain wall may be constructed as stick framing, or as a wall that gets erected in sections. The system is joined together with structural aluminum shear-blocks, and only stainless-steel fasteners are used. In a multi-story curtain wall application, a slip-joint shear-block is used behind the spandrel.

### **Glazing Method:**

A 1/8" santoprene glazing spline is inserted in channel on the interior fiberglass mullions. An aluminum nosing with a rubber thermal break, and pressure-plate with a 1/4" santoprene glazing spline, are fastened to the fiberglass framing, overlapping the glass (either side) to hold it secure. Composite corner blocks are used at the horizontal and vertical mullion intersections. An aluminum snap cap is then attached to the pressure-plate. The horizontal pressure plates and snap caps are typically predrilled for drainage in the factory.

### **Glazing:**

The curtain wall is glazed with triple pane (typically 41 mm or 1 5/8" OD). Glass thickness shall comply with project specifications, but will not be less than 3 mm (1/8"). The full range of glazing options are available including IG grilles, low conductivity stainless steel spacers, and inert gas fills to reduce heat loss, UV transmission, and to manage solar heat gain and visible light transmittance as required. DUXTON recommends the use of sealed insulating glass units certified by IGMAC or SIGMA, such as Cardinal Glass. FiberWall™ Series 328 or 458 Casements or Awnings may be planted into the glazing pockets as required.

### **Finish Options:**

All exposed fiberglass frame surfaces are coated with durable, 2-part Polymer enamel with a minimum dry film thickness of 1.5 mm with a gloss range from 20 to 55. Finish shall resist chipping, blistering, chalking, and discoloration under normal atmospheric conditions. A natural, unpainted, durable factory finish is also available.

### **Oversized Unit Reinforcement:**

Typically, curtain wall frames do not require reinforcements within, but are available according to the project requirements.

### **Optional Spandrel Panels:**

Spandrel panels should have a back-pan with roxul insulation, and a 6mm back-painted glass to the outside.

### **Installation:**

Shall be performed by experienced installers in accordance with manufacturer instructions and CSA A-440.4. Window shall be plumb and square after installation is complete and sealed to both interior and exterior wall with a high quality sealant around the perimeter of the frame. It shall be the responsibility of the installers to make all the necessary final adjustments to ensure normal and smooth operation.

\*Due to constant product improvements, DUXTON reserves the right to change information herein without notice.

\*For custom requirements, contact us to discuss details with a Project Manager.

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