



Specifications
Series 458 & 658
FiberWall™ Fixed Windows

Description:

A commercial window system including fixed and outward opening operators in made-to-order sizing. Well-suited to large openings and/or applications with high performance requirements.

Material:

Frames shall be made with tubular 4 5/8" (458 Series) or 6 5/8" (658 Series) pultruded fiberglass lineals. All frame profiles shall have a nominal wall thickness of 2.3 mm (0.090") with minimum glass content of 60%. Frame cavities shall be filled with foam insulation, EPS – Density 20. Non-structural accessory members may be vinyl or aluminum and identified as such.

Construction:

Injection molded glass-filled nylon corners shall be used for assembly and fastened in place with screws. Corners shall be sealed with silicone. Spray foam shall be used to fill the cavity inside the corner.

Glazing Method:

Laid-in glazing with a rubber spline OR a polyethylene closed cell tape on the glazing leg. A fiberglass OR aluminum stop holds the insulating glass unit from the interior, providing a secure and water-resistant seal. Silicone heel beading is in place as necessary, with an option for a full tooled heel bead to achieve B7 rating.

Glazing:

All windows are glazed with dual pane (typically 22 mm or 7/8"OD), triple pane (typically 35 mm or 1 3/8"OD), or multiple panes as required by specification. Glass thickness shall comply with local National Building Codes and specifications required, but will not be less than 3 mm (1/8"). The full range of glazing options is 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.

Finish Options:

All exposed 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.

Oversized Unit Reinforcement:

As required, reinforcement shall be steel plates measuring 64 mm x 5 mm (2 1/2" x 3/16") for FiberWall™ 458 OR 102 mm x 5 mm (4" x 3/16") for FiberWall™ 658, cut to the appropriate length. As required, steel reinforcements may have steel plates affixed to the top and bottom at 90 degree angles to serve as anchorage to the framing.

Optional Spandrel Panels:

Spandrel panels shall be fiberglass insulated door panels in 44 mm (1 3/4") thickness. The insulation is a polyurethane foam to provide R-11 insulation value.

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. If the rough opening is to be foamed, additional anchorage may be required to prevent bowing. 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.