



SPECIFICATIONS
FiberWall™ Series 458 Plus
Casement or Awning

Product Shall be FiberWall™ Series 458 Plus Casement or Awning Window Assemblies, as manufactured by DUXTON Windows & Doors. Frames are 117.5 mm (4 5/8") deep.

Material All frame and sash profiles are made from pultruded fiberglass, having a nominal wall thickness of 2.3 mm (0.090") with minimum glass content of 60%. Fastening positions have an increased nominal wall thickness of 4.76 mm (0.1875") to securely mount hardware. Glazing stops and mull connectors are made of pultruded fiberglass.

Construction Frame and sash corners are connected with molded reinforced polymer components and mechanically secured. The frame has a closed-back for added strength and resistance to moisture penetration. The sash has a double wall beneath the glazing stop to fit an extended corner key for added strength. Joints are factory sealed with silicone and neatly fitted together. Frame and sash cavities shall be filled with Graphite-Enhanced Expanded Polystyrene (GPS), R-4.7/in.

Finish All exposed surfaces are coated with durable, Isocyanate-free, 2-part Polymer enamel with a minimum dry film thickness of 1.5 mm with a medium gloss of 20 – 55. Finish shall resist chipping, blistering, chalking, discoloration and aging under normal atmospheric conditions.

Hardware The concealed hinge shall have an E-Gard coated heavy gauge steel arm and a stainless steel track. The locking mechanism shall be multi-point sequentially locking bar. The hardware tower consists of a double wall for added rigidity and long-term durability.

Weather-stripping The operator shall have triple weather-stripping that is applied continuously around corners (not mitered). All seals shall be made from a durable EPDM closed-cell sponge rubber.

Glass All windows are glazed with 25 mm (1") for dual pane, 38 mm (1 1/2") for 3/4/5mm triple pane, or 48mm (1 7/8") for 6mm triple pane. Glass thickness shall be in accordance with applicable Building Codes, but not less than 3 mm (1/8"). Sealed insulating glass units to be certified by IGMAC or SIGMA (other than custom configurations which may not be available).

Glazing Method Laid in glazing using polyethylene closed cell adhesive tape on the exterior and a fiberglass glazing stop on the interior with an EPDM rubber spline providing a secure and positive seal for the glass. Manufacturer's compatible silicone to be used to seal between the sealed unit and the frame on the interior.

Insect Screens Roll-formed aluminum frame with friction fit corner keys. Screen mesh shall be fiberglass. Screens are mounted on the interior of operating windows and are removable. An overlapping spring-loaded screen with concealed clips is available for white and black interior frames.

Installation Shall be performed by experienced installers in accordance with manufacturer's instructions and CSA-A440.4. Window shall be plumb and square after installation is complete and sealed to both interior and exterior walls with a high quality sealant around the perimeter of the frame, allowing for drainage at the bottom sill. It shall be the responsibility of the installer to make all necessary final adjustments to ensure normal and smooth operation.