



## SPECIFICATIONS

### FiberWall™ 550D Series Sliding Glass Door

**Description** A heavy duty, high performance sliding glass door available in a full range of configurations, from two to four panels. The system may be supplied pre-fabricated or fabricated at the job site in certain commercial applications with qualified personnel.

**Product** Shall be 550D Series Fiberglass Glass Door as manufactured by DUXTON Windows & Doors. Frames are 140 mm (5-1/2") deep and comprise an interior operating panel and an exterior fixed panel. Sliding Glass Doors shall be in compliance with AAMA/WDMA/CSA 101/I.S.2/A440-08 Standards.

**Materials** All frame and sash profiles are made from pultruded fiberglass having a nominal wall thickness of 2.3mm (0.090"). Non-structural accessory members are permitted to be vinyl or aluminum and identified as such.

**Construction** Frame and panel corners are connected with molded reinforced polymer corner keys and mechanically secured. Joints are factory sealed with silicone and neatly fitted together. Frame and sash cavities shall be filled with foam insulation, EPS – Density 20.

**Hardware** The sliding panel is equipped with adjustable heavy duty steel tandem rollers, and precision-grade bearings from Amesbury-Truth. The wheels measure 42 mm (1.66") and offer a capacity of 227 kg. (500 lbs.) per sash. Locking handle is a die-cast zinc assembly with double hook and keyed lock. Frame sill member shall include stainless steel track liners. Door travel limit bumpers shall be provided at head and sill of jambs, for fully open and closed positions as well as anti-lift blocking to provide resistance to forced entry. A sill mounted foot lock by Amesbury-Truth is available as an option.

**Finish** All exposed surfaces are coated with a durable, Isocyanate, 2 part Polymer enamel with a minimum dry film thickness of 1 mm with a medium gloss of 20 – 55. Finish shall not blister, crack or peel under normal atmospheric conditions.

**Weather-Stripping** Double line of silicone coated woven pile at interior to provide air and vapor seal.

**Glazing** Operating and Fixed Panels are glazed with dual pane (typically 22 mm or 7/8" OD) or triple pane (typically 35 mm or 1 3/8") tempered insulating glass units. Glass thickness shall be in accordance with applicable Building Codes and specifications, but not 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 specified. DUXTON recommends the use of sealed insulating glass units certified by IGMAC or SIGMA.

**Glazing Method** Fixed and operating sashes utilize laid-in glazing using polyethylene closed cell tape on the exterior and a fiberglass glazing stop locked-in from the interior to provide a secure and positive seal for the glass. A silicone heel bead is applied across the bottom and up 6" on each side of the sealed unit. Fixed and operating sashes have concealed drainage on the bottoms of the profiles.

**Insect Screens** A heavy-duty extruded frame with Fiberglass mesh provides protection from external elements. The sliding screen is equipped with heavy duty, adjustable steel tandem rollers at the top and bottom.

**Installation** Shall be performed by experienced installers in accordance with manufacturer's instructions and CSA-A440.4. Sliding door 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. If perimeter cavity is to be foamed, additional anchorage may be required to prevent bowing. It shall be the responsibility of the installers to make all necessary final adjustments to ensure normal and smooth operation.

**Maintenance** It is recommended that the glass and the frame components be cleaned occasionally with a non-abrasive detergent solution. Occasionally coating the weatherstripping and steel track with a silicone spray will promote smoother operation.