

**COMFORT LINE  
SLIDING PATIO DOOR SPECIFICATIONS  
5000 SERIES FIBERGLASS PATIO DOOR**

**General Description:**

Fiberglass sliding patio doors shall be Series 5000 Sliding Patio Doors as manufactured by Comfort Line, Inc. Toledo, Ohio. The frame and sash shall be pultruded fiberglass with a main frame depth of 5 3/4". Door assemblies up to 6080 shall meet or exceed the requirements for ANSI/AAMA/NWWDA 101/I.S.2 SGD-R50 performance requirements. Doors shall be of the size and type shown on the drawings.

**Fiberglass:**

Fiber-Frame Windows shall be constructed from specially designed heavy-gauge pultruded sections of specially formulated fiberglass composite materials in accordance with Comfort Line, Inc. engineering standards and drawings with a nominal wall thickness of .090".

**Frame:**

Head, jamb and sill members are machined to be joined at each corner with large diameter screws fastened into specially designed composite corner blocks at the head. At the sill end a continuous composite substrate provides additional strength and easy installation. Additional composite blocks in the head and jamb are located at the installation screw locations to provide additional strength. Specially designed sill is sloped for positive water drainage. The sill to jamb corners are sealed with a foam gasket to prevent water leakage. The frame is supplied knocked down for assembly in the field.

**Sash:**

The sliding and fixed sashes are miter cut and joined by screws fastened into specially designed injection molded nylon corner keys. Each mitered corner is sealed at time of assembly with a high performance sealant. All sash members are of a tubular or hollow design as required and shown on Comfort Line, Inc. engineering standards drawings.

**Hardware:**

Sliding panel is equipped with two steel tandem, sealed ball bearings, adjustable rollers at the bottom of the panel. Stainless steel rollers are available at additional cost. Heavy-duty die cast handle with adjustable two point mortise latch is used to lock panel into a flush mount stamped steel keeper mounted on the frame jamb. Operating handles are finished in a high-performance powder coat finish on interior and exterior. Exterior keyed cylinder locks are standard. Brass plating and other specialty metal finishes are available at additional cost.

## **5000 SERIES SLIDING DOOR SPECIFICATION (cont.)**

### **Weatherstripping:**

Dense polypropylene fin-seal weatherstrip on the frame head, sill and jamb is used to seal the door frame to the sash around the complete perimeter. The interlock is double weatherstripped by means of a vinyl weatherstrip adapter on the sliding and fixed panel of the door.

### **Glazing:**

Doors to be glazed with 1" tempered insulated glass. A high performance spacer for maximum thermal performance separates each insulated unit. Glass shall be set into sash using high-performance reactive hot melt butyl and interior glazing beads color matched to door interior finish. Windows that are glazed with Low E Argon glass will be labeled for NFRC and Energy Star compliance.

### **Finish:**

All fiberglass sections are coated with a high performance two-component polyurethane enamel finish in accordance with AAMA 623-07 (Voluntary Specification, Performance Requirements and Test Procedures for Organic Coatings on Fiber Reinforced Thermoset Profiles). Total dry-film thickness on exposed surfaces shall be a minimum of 20 microns (.8 mil) total film thickness. Paint shall be Polane S Plus, as manufactured by Sherwin Williams Coatings. Color shall be white, almond, cobblestone or dark bronze as selected by the architect or owner. An optional oak veneer interior finish is available at additional cost. Two-tone finishes and custom colors are available at additional cost.

### **Screen:**

Frames to be extruded aluminum tubular design fitted with re-wireable fiberglass screen cloth held in place by a vinyl spline. Spring-loaded rollers are adjustable and mounted at each end of the top and bottom rail of the screen. Screens have weatherstrip at the meeting rail to seal screen against sash.

### **Erection:**

All units to be erected in prepared openings by others. Frames must be securely fastened, set plumb and level without twisting, bowing or springing. Caulk unit on exterior with a high-grade caulk to assure a water and airtight installation.