

**COMFORT LINE
DOUBLE HUNG SPECIFICATIONS
8000 SERIES FIBERGLASS WINDOWS**

General Description:

Fiberglass double hung windows shall be Series 8000 Double Hung Windows as manufactured by Comfort Line, Inc. Toledo, Ohio. The frame and sash shall be pultruded fiberglass with a main frame depth of 3 1/4". The double hung window shall meet or exceed the requirements for ANSI/AAMA/NWDA 101/I.S.2 H-C30 performance requirements. Windows 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 injection molded nylon corner keys at the head end and composite corner blocks at the sill end. Specially designed sill is sloped for positive water drainage. Sill to jamb corners are sealed with a foam gasket to prevent water leakage.

Sash:

The top and bottom 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. Zinc die cast locks and keepers at locking positions are color matched to window color, optional brass plated locks and keepers are available. Zinc die cast handles are color matched and located at the bottom sash for easy opening, top sash handles are optional. Top and bottom sash will be counter balanced with a tilt-type spiral balance system that will hold the panel stationary at any point for its full range of travel. Top and bottom sash shall tilt-in for easy cleaning by compressing two semi-concealed tilt latches mounted on the top of each sash. The interlock used on the top and bottom sash runs the full width, which reduces air infiltration and enhances the structural strength of the unit

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Weatherstripping:

Dense polypropylene fin-seal weatherstripping on sash stiles and rails along with a foam filled vinyl bulb weatherstripping at the sill of the bottom sash are used to seal the top and bottom sash.

Glazing:

Windows to be glazed with 7/8" insulated glass made with DSB glass. Each insulated unit is separated by a high performance spacer for maximum thermal performance. Glass shall be set into sash using a high performance silicone back bedding and exterior glazing beads color matched to window exterior 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 roll formed aluminum, fitted with re-wireable fiberglass screen cloth held in place by a vinyl spline. Standard full screen is held in place by 2 fixed butterfly clips at the head and 2 rotating butterfly clips, 1 on each jamb, for easy removal of the screen.

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 air tight installation.

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