Part 1: GENERAL

1.1 **Scope**: Subject to local building codes, this product is intended for use in:

1.1.1 One and two family dwellings.

1.1.2 Low-rise multifamily dwellings, low-rise professional offices, libraries and low-rise motels.

1.1.3 Lighter use industrial buildings and factories, hotels, and retail sales buildings.

1.2 **Product Description**: Side-hinged door systems manufactured by MASONITE or meeting MASONITE specifications.

1.2.1 Door system components include: door panel(s), sidelite panel(s), glass inserts, transom, door frame, hinges, weather seals.

Part 2: BASIC MATERIALS

2.1 **Door Panel**: Smooth Flush-Glazed fiberglass doors shall be fabricated using 7-piece construction that includes fiberglass reinforced facings, laminated lock stile, laminated wood hinge stile, wood top rail, rot resistant composite bottom rail and integral glazing frame. Door facings are to be bonded to stiles and rails forming a structural attachment. Insulated core to be poured-in-place polyurethane foam forming a secure attachment to all door components.

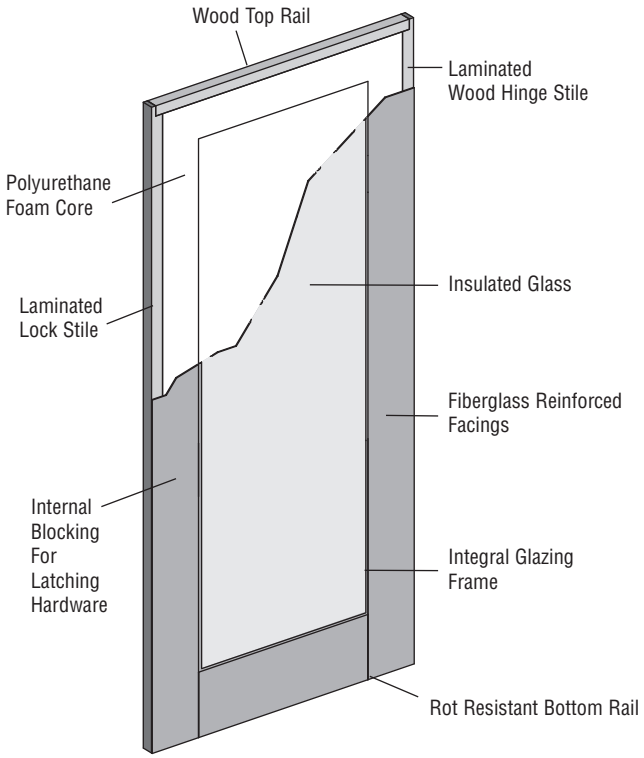
2.1.1 Bottom rail may be machined to accept weather seal. Mounting surface for latching hardware to be reinforced with solid internal blocking. Hinge preparations are to be placed at MASONITE specifications and are to be machined for standard weight full mortise 4” butt hinges. Latch preparations are to be placed at MASONITE specifications. Face bore(s) for cylindrical lock and deadbolt are to be 2-1/8” diameter at 2-3/4” or 2-3/8” backset and 5-1/2” on center (5-1/2” or 10-1/2” on 8’0” panels).

2.2 **Sidelite Panel**:

2.2.1 Smooth Flush-Glazed fiberglass sidelites shall be fabricated using 7-piece construction that includes fiberglass reinforced facings, wood stiles, wood top rail, rot resistant composite bottom rail and integral glazing frame. Door facings are to be bonded to stiles and rails forming a structural attachment. Insulated core to be poured-in-place polyurethane foam forming a secure attachment to all door components.

2.3 **Glass Insert**: Insulated glass shall be fabricated 1” double pane construction. Glass frame “flush glazed” design in cellular vinyl.

2.4 **Transom**: Specialty insulated transoms shall be fabricated with 1/2” double pane or 1” triple pane glass mounted to the framing system as a non-operable panel.



2.5 **Door Frame**: Wood frames shall be fabricated as a single rabbet jamb design. Hinge jamb(s), strike jamb, head jamb, and mullion(s) shall be machined to accept a kerf applied weather seal. Hinge jamb preparations are to be placed at MASONITE specifications and are to be machined for standard weight full mortise 4" butt hinges. Strike jamb preparations are to be placed at MASONITE specifications and are to be machined for full lip cylindrical strike plate. Inswing or bumper outswing threshold shall be high-dam design. Low profile threshold shall be required for handicap accessible openings. Double door units shall include a t-astragal attached to the “passive” panel with top and bottom flush bolts that securely strike into the head jamb and threshold.

2.6 **Hinges**: (3) standard weight full mortise 4” butt hinges are required on doors 7’0” height or smaller & (4) on doors greater than 7’0”.

2.7 **Weather Seal**: Door frame shall be fabricated featuring a vinyl wrapped foam filled compression design that is kerf installed. Corner seals shall be installed to the rabbet section of the door frame at the bottom of the hinge and lock jamb. Door bottom sweep shall be sealed and securely attached to the operable door panel(s).

Part 3: DELIVERY, STORAGE & HANDLING

3.1 **Delivery**: Reasonable care shall be exercised during shipping and handling in keeping with the decorative nature of product.

3.2 **Storage & Protection**: Store upright in a dry, well ventilated building or shelter at a constant temperature. Do not store in damp areas or freshly plastered buildings. Place units on wood blocks at least 2" high to prevent moisture at threshold and/or possible damage. Do not place in non-vented plastic or canvas shelters.

Part 4: EXECUTION

4.1 **Examination**: Site verification of substrate conditions, which have been previously completed, are acceptable for the product installation instructions in accordance with manufacturer's specifications. Verify that door frame openings are constructed plumb, true and level before beginning installation process. Select fasteners of adequate type, number and quality to perform the intended functions.

4.2 **Installation**: Remove protective packaging just prior to installation. Installer shall be experienced in performing work required and shall be specialized in the installation of work similar to that required for this project. Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product packaging instructions for installation.

4.3 **Flashing, Insulating & Trimming**: Exterior of installed unit shall be flashed, trimmed & sealed to prevent air infiltration and/or water penetration. Interior of installed unit shall be insulated & trimmed to prevent thermal and/or acoustical transmission.

4.4 **Finishes**: Various types of materials are used in the construction of the door system; each shall be sealed in accordance with manufacturer's specifications to protect against various environmental conditions. Make sure to seal and inspect all 5-surfaces (top, hinge side, lock side, exterior face and interior face) of the active door panel(s). Finishing and/or re-finishing must be completed within 45-days from the time the protective packaging was removed and/or the installation was performed. Conduct periodic inspections of all coated surfaces to insure that door components are not exposed. Inspections should occur at least once a year. Reseal the surface as needed.

Part 5: BUILDING CODE & REGULATORY COMPLIANCE

5.1 **Structural Performance & Impact Rating**: Unit scheduled for installation in openings requiring compliance with national, state or local wind load and/or missile impact resistance shall be clearly noted when product is ordered. Design pressure (DP) ratings are available for a wide selection of door styles and configurations are listed under the National Accreditation & Management Institute (NAMI). Smooth Flush-Glazed fiberglass door unit at +55.0 / -55.0 maximum rating. (See structural performance data for unit specific DP information).

5.2 **Thermal Performance**: Unit Scheduled for installations in openings requiring compliance with national, state, or local thermal resistance and/or solar heat gain shall be clearly noted when product is ordered. U-Value & SHGC ratings in accordance with the International Energy Conservation Code (IECC) and/or the National Fenestration Rating Council (NFRC) are available for a wide selection of door styles. ENERGY STAR compliance / labeling is available for various door styles. Smooth Flush-Glazed fiberglass at U-value of 0.38 & SHGC of 0.36 minimum rating. (See thermal performance data for unit specific thermal information).

5.3 **Acoustical Performance**: Unit scheduled for installation in openings requiring a specified noise control rating shall be clearly noted when product is ordered. Smooth Flush-Glazed fiberglass sound transmission classification (STC) rating is 28 for a (operable) door with a full lite glass insert. (See acoustical performance data for unit specific acoustical information).

5.4 **General Performance**: All door systems are designed to comply with water penetration guidelines in accordance with ASTM E331 and/or Florida Building Code TAS202; air infiltration guidelines in accordance with ASTM E283 and/or Florida Building Code TAS202; forced entry resistance guidelines in accordance with Florida Building Code TAS202.

Part 6: WARRANTY

6.1 Manufacturer warrants the panel to be free of manufacturing defects in material and workmanship for 25-years. Please check with manufacturer or distributor for current warranty terms and conditions.