

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 A fire door assembly consists of components that are separate products incorporated into the assembly. Typical door assembly components include: door panel, door frame, hinges, lock or latch, gasketing, weatherstrip and glazing materials. Each component must be listed for use in a fire door assembly.

Part 2: BASIC MATERIALS

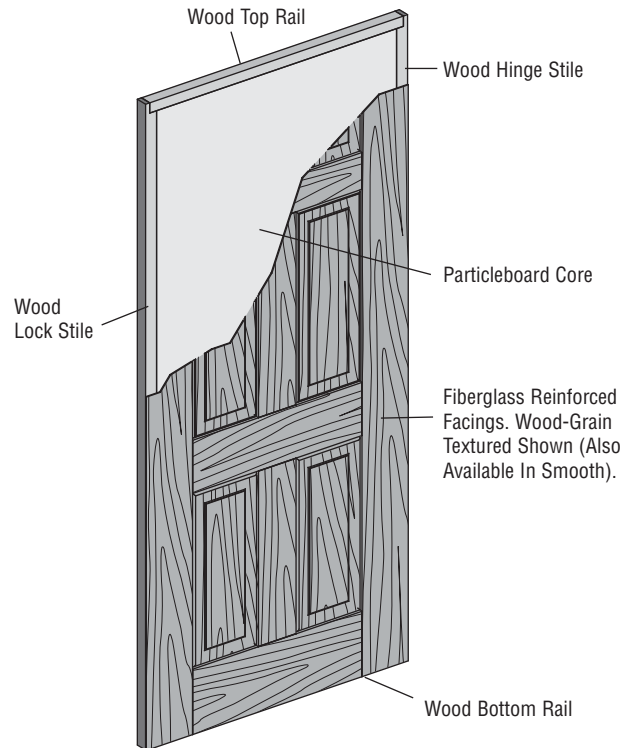
2.1 **Door Panel:** 20-Minute Listed fiberglass doors shall be fabricated using 7-piece construction that includes fiberglass reinforced facing, wood lock stile, wood hinge stile, wood top rail, wood bottom rail and particleboard core. Door facings are to be bonded to stiles, rails and core forming a structural attachment.

2.1.1 Bottom rail may be machined to accept weather seal. 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.

2.2 **Rated 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 non-combustable. Low profile threshold shall be required for handicap accessible openings.

2.3 **Hinges:** (3) standard weight full mortise 4" butt hinges are required on doors 7'0" height or smaller. Hinges shall be in accordance to NFPA 80.

2.4 **Rated 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 Fire Resistance: Unit scheduled for installation in openings requiring compliance with national, state or local fire guidelines shall be clearly noted when product is ordered. 20-Minute Listed fiberglass door panels have been evaluated for use as fire doors in 20-minute locations; available up to 3'0" x 7'0" maximum size for single door opening requirements. Labeling is available under the Intertek Testing services / Warnock Hersey program. Fire doors require the use of a fire rated frame system and must be installed in accordance with NFPA 80 guidelines. (Please check with manufacturer or distributor for limitations of use).

5.2 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 limited selection of door styles and configurations listed under the National Accreditation & Management Institute (NAMI) program. 20-Minute Listed fiberglass door unit is available up to +85.0/-85.0 Design Pressure (DP) rating with 3'0" x 6'8" maximum size for single door. (See structural performance data for unit specific DP/impact information).

5.3 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 limited selection of door styles. 20-Minute Listed fiberglass at U-value of 0.36 & SHGC of 0.02 minimum rating. (See thermal performance data for unit specific thermal information).

5.4 Acoustical Performance: Unit scheduled for installation in openings requiring a specified noise control rating shall be clearly noted when product is ordered. 20-Minute Listed fiberglass sound transmission classification (STC) rating is 30 for a (operable) door without a glass insert. (See acoustical performance data for unit specific acoustical information).

5.5 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.

5.6 Formaldehyde Emissions: Unit scheduled for installation in openings requiring compliance with California Air Resources Board (CARB) shall be clearly noted when product is ordered. 20-Minute Listed fiberglass door panels comply with CARB Phase 2.

Part 6: WARRANTY

6.1 Manufacturer warrants Barrington® Sierra™ and Belleville® panels to be free of manufacturing defects in material and workmanship for the lifetime of the panel. Oakcraft® panels to be free of manufacturing defects in material and workmanship for 25-years of the panel. Please check with manufacturer or distributor for current warranty terms and conditions.