



## **Section 08200 Architectural Stile and Rail Doors**

### **1.01 Scope:**

- a. Perform all work necessary and required for the construction of the project as indicated. Including, but not restricted to, the following:
  - 1. Stile and rail doors of grade specified.
  - 2. Machining of stile and rail doors.
  - 3. Factory finishing of stile and rail doors.
  - 4. Glass and glazing.
  - 5. Doors with fire ratings of 20, 45, 60, or 90 minute as required.
- b. Related work in other sections:
  - 1. Wood or metal doorframes.
  - 2. Hardware and installation of hardware.
  - 3. Installation of stile and rail doors.

### **1.02 Submittal:**

- a. Submit shop drawings of all doors included in this section to the architect for approval. No manufacture or fabrication of doors shall begin until all drawings have been approved and returned to the contractor. Contractor shall be responsible for getting all necessary information for fabrication to the door manufacturer 90 days prior to the requested delivery date of doors.
- b. Submittal shall be made in strict conformance with the contract conditions. Provide manufacturer's letter of certification indicating conformance to these specifications.
- c. Samples must be requested in writing with details or aspect of product to be approved, i.e. veneer, finish, construction, etc. If samples of specific veneers or finishes have been submitted for approval, doors will not be released for manufacturing until Eggers has received written approval.

### **1.03 Storage & Handling:**

- a. Doors to be stored and handled at the site in accordance with WDMA 1.S.6A-01.

### **1.04 Warranty:**

- a. The doors shall be warranted by the manufacturer to be free from defects as follows:
  - 1. Interior — Non-rated and 20 minute: Life of original installation.
  - 2. Interior — 45,60 and 90 minute: One year from date of original installation.
  - 3. Exterior — Non-rated: One year from date of original installation.
- b. Exceptions to fire-ratings, as shown on plans, that affect the door manufacturer's specific fire-rating authority shall be brought to the attention of the architect.
- c. Manufacturer shall pay a reasonable charge to remove a defective door and rehang with a new door provided the defect was not apparent prior to installation.

### 1.05 Materials:

- a. All custom raised panel doors shall be manufactured using the traditional construction of panels grooved into adjacent stiles and rails with the stiles tongued and grooved, and doweled together with glue under pressure.
- b. All raised panel doors listed on the door schedule shall be as manufactured by Eggers Industries, Two Rivers, Wisconsin; or an approved equal whose specifications are equal to the description in this section.
- c. All exposed surfaces including stiles, mullions, cross rails, etc. shall be manufactured using 1/16" premium grade hardwood veneer (1/16" prior to sanding) and five ply construction on all components except panels or as noted.
- d. Sticking shall be as detailed on the architectural drawings. Wood shall be the same species as the face veneer unless otherwise noted. Vertical edges and edges adjacent to lites or panels shall be the same species as the face veneer.
- e. Core shall be Structural Composite Lumber (SCL). Dowels used for assembly shall be no less than 1/2" X 5"
- f. Raised panels shall be manufactured using a three-ply construction. Minimum thickness of panel shall be 1-1/8"
- g. Panel raise shall be constructed from solid lumber matching the face veneer and shall be rim banded (miter rim). Dimensions for panel raise shall be as indicated on the drawings.
- h. Bar and muntin details shall be as indicated on the drawings. Solid lumber shall be used. Lumber species to be the same as the face veneer.
- i. Standard face dimensions:
  - Stile Face\* 5"
  - Cross Rail Face 5"
  - Top Rail Face 5"
  - Mullion Face 5"
  - Bottom Rail Face 10"

If less than 1' 9" wide for non-label doors, standard face dimension for stile, cross rail and mullion is 2-1/2"

*\*Consult door manufacturer for proper stile dimensions when coordinating with finished hardware schedule. Stile dimensions may vary due to hardware, label rating and warranty requirements.*

### 1.06 Prefit & Premachine:

- a. Manufacturer to premachine for cutouts, hinges, locks and all hardware requiring routing or mortising.
- b. The contractor is to furnish the wood door manufacturer with an approved coordinated schedule showing all the data relative to the frame, hardware and door information. In lieu of this, the contractor can furnish frame schedule (including all hardware locations), approved hardware schedule (including all necessary hardware templates) and an approved door schedule. The manufacturer can then coordinate the three schedules, which must be approved by the contractor.
- c. Contractor shall be responsible for boring pilot holes, wood screw holes, mounting holes for face plates and other surface applied hardware listed on the hardware schedule unless special arrangements are made with the door manufacturer prior to submittal of shop drawings to the architect.
- d. Kick plates, push plates, stretcher plates, edge guards and other protective hardware shall be furnished by the hardware supplier or general contractor and installed in the field by the general contractor.

### 1.07 Prefinish:

- a. All wood doors shall be completely factory finished using the manufacturer's standard conversion varnish system similar to AWI System TR -4.  
Note to Specifier: Other finish systems may be specified if required.
- b. AIF raised panel tongues are to be stained and sealed prior to assembly of doors to avoid finish line when panels expand and contract.
- c. All finished doors shall be individually plastic wrapped.

### 1.08 Installation:

- a. Doors to be stored and handled at the site in accordance with WDMA 1.S.6A-01. (See Appendix Care and Installation at Job Site).
- b. Inspect: Installer must examine doors and door frames to verify that frames have been installed as required for proper hanging and operation of door. Doors with apparent defects should not be hung. Notify the door subcontractor in writing of conditions, which are detrimental to the proper installation, and operation of wood doors. Do not proceed with installation until unsatisfactory conditions have been corrected.
- c. Install: Do not deliver or install doors until temperature and relative humidity\* have been stabilized (\*between 30% and 50%) and will be maintained in storage and installation areas during remainder of construction period.

Action on any claim for warp or photographing defects may be deferred at the option of the manufacturer for a period not to exceed twelve months to permit conditioning of the doors to temperature and humidity.

Reseal or refinish before installation if field machining or alterations are required at job site.

Doors shall swing in their respective frames free of hinge binding or improper latching. Protective door wrapping is to remain in place until all work by other trades is complete and final inspection is finished.

Rehang or replace doors, which do not swing or operate freely.

- d. Clean: Owner is to be furnished with instructions on how to clean and maintain wood doors. Normal cleaning of wood doors should consist only of wiping with a damp, soft cloth and light polishing with lemon or tung oil. No other commercial or industrial cleaners should be used on wood doors as they may irreparably damage the finish.