

SECTION 08 14 33
STILE AND RAIL MDF DOORS

PART 1 - GENERAL

1.01 SUMMARY

- A. Related Documents -
Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to the work specified in this section.
- B. Section Includes:
 - 1. Stile and Rail MDF and Wood Doors
- C. Related Sections
 - 1. Section 01300 - Submittals
 - 2. Section 01600 - Material and Equipment
 - 4. Section 08110 - Steel Door Frames
 - 5. Section 08710 - Finish Hardware
 - 6. Section 08800 - Glass and Glazing
 - 7. Section 09900 - Painting

1.02 REFERENCES

- A. ASTM D-1037 -91 American Society for Testing and Materials: Standard Methods for Evaluating the Properties of Wood-Based Fiber and Particle Board Panel Materials.
- B. ASTM E 152-81a - Standard Methods of Fire Tests of Door Assemblies.
- C. WDMA I.S.6-A-99 - Window and Door Manufacturers Association.
- D. AWI - Quality Standards of the Architectural Woodwork Institute (AWI), Section 1400, Stile and Rail doors.
- E. NFPA 80 - Fire Doors and Windows
- F. NFPA 252 - Standard Methods of Fire Tests for fire Door Assemblies
- G. ITS - Certification Listings for Fire Doors
- H. ADA

1.03 SUBMITTALS

- A. Shop Drawings: Submit in accordance with Section 01300. Indicate:

1. Door number
2. Door Type
3. Door Sizes
4. Handing
5. Fire rating
 - i. Neutral Pressure - UL10-B/ UBC - 43-2/ UBC - 7-2-94
 - ii. Positive Pressure - UL10-C / UBC 7-2-97.
6. Door elevations
7. Hardware Set Numbers
8. Details of construction

B. Samples :

1. Submit 12" x 12" door corner samples as required by the architect showing door construction, panel and sticking details as specified
2. For factory prefinished doors - submit 6" x 6" samples to architect for approval of veneer or painted type material as specified.

C. Templates: Hardware templates for hardware mounted on doors will be submitted under Section 08710 directly to door manufacturer immediately after acceptance of hardware schedule. Report failure to receive templates with reasonable promptness to General Contractor.

D. Product Data: Submit door manufacturer's product construction data including, core construction, stile and rail details, panel and sticking details and any trim or glazing details as appropriate for doors specified. Product data should indicate compliance with specifications.

E. Quality Assurance:

1. Manufacturer : Shall be a company specializing in the manufacture of stile and rail doors specified in this section for a minimum of 10 years. All stile and rail doors specified in this section MDF, and Fire doors shall be supplied and manufactured by one company. All details including panels, sticking and profiles shall match. Plant ons at fire doors will not be accepted.
2. Fire Ratings: Fire rated doors shall comply with local building codes as enforced by the AHJ. Doors shall be installed in accordance with NFPA 80. All doors shall bear the appropriate certification labels.
3. Storage and Handling : Doors shall be stored and handled in accordance with the manufacturer's recommendations and the WDMA - Appendix Section - "Care and Installation at Job Site".
 - i. Doors shall be stored on a flat and level surface in a well ventilated dry building. Doors shall not be stored on edge and shall be protected from dirt, water and abuse.

- ii. Protect doors from exposure to light for veneers which are light sensitive.
- iii. Doors shall not be subjected to extreme heat or humidity. HVAC systems should be set to provide a temperature range of 50 -90 degrees F and 30-60% relative humidity.
- iv. Handle doors with clean hands or gloves. Do not drag doors across floors or other surfaces.
- v. Each Door shall be marked with the opening number.
- 4. Warranty: Submit in accordance with Section 01700. For factory finished or prime doors, warranty shall be in effect of the Life of the Installation for interior, interior fire doors and exterior doors.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. TruStile Doors, LLC.
 - i. Type: TruStile TS Series MDF Doors.
 - 2. Millennium Door
 - i. Encore Series

2.02 DOOR CONSTRUCTION - MDF STILE AND RAIL DOORS -

- A. Description:
 - 1. Size and Panel Types: See Drawings and specifications.
 - 2. Number of Panels: 6
 - 3. Stile Thickness: 1-3/4".
 - 4. Finish: Factory primed.
 - 5. Profiles and dimensions shall be manufacturer's standards unless otherwise noted in the drawings and elevations.
 - 6. STC rating 34 - Standard 1-3/4" doors for sound control.
 - 7. Non-rated Core: Rigid Foam Insulation.
- B. Stile and Rail (Sticking) Type:
 - 1. Reverse Roman Sticking (OG),
- C. Panel Type:
 - 1. Beveled Panel
 - 2. Panels shall be constructed of 42 pound density MDF routed to profile specified. Panels shall float inside the sticking in true stile and rail construction. Panels shall be held in place by the sticking and flexible bumper shall be installed inside sticking to keep panel centered.
- D. Stile Construction

1. Core material to be constructed of 2 pieces of 42 pound density MDF laminated with PVC adhesive for interior. For exterior doors MDF shall be exterior grade MDF manufactured with phenolic resins to resist moisture.
2. Stiles are to be constructed for improved screw holding by use of hardwood "wedge", 1-5/8" x 7/8" (1-3/4" doors) and 1-1/4" x 7/8" (1-3/8" doors). "Wedge" to extend the entire height of door.

2.03 FIRE RATED STILE AND RAIL DOORS

- A. Panel and Sticking types to match MDF/Wood Stile and Rail doors in every detail. Plant ons are not acceptable.
- B. Core: for 45, 60 and 90 minute rated doors; the core material shall allow panel profiles to match non rated doors.
- C. Stile Construction
 - a. Stiles are to be constructed for improved screw holding by use of hardwood "Firewedge", 1-5/8" x 7/8" (1-3/4" doors) and 1-1/4" x 7/8" (1-3/8" doors). "Firewedge" to extend the entire height of door.
- D. Fire doors to be Category A with concealed intumescent strips where positive pressure is required by code.

2.04 DOOR FABRICATION

- A. Machining for door hardware: All doors shall be machined for specified hardware that is not surface applied.
- B. Doors shall be factory glazed with glass as specified unless otherwise indicated.

2.05 FACTORY FINISHING

- A. MDF doors to be factory prime painted.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Comply with Section 01600:
 1. Before installation, verify that frames are proper size and type for door and are installed plumb and square as required for proper installation of doors.
 2. Inspect doors for any damage, manufacturing defects or prefinish inconsistency prior to installation.
 3. Notification: Notify General Contractor of unsatisfactory conditions in writing with copy to Architect.

- B. Acceptance: Beginning of work will indicate acceptance of existing conditions by installer.

3.02 PREPARATION

- A. Conditioning: Condition doors to average humidity in installation area prior to hanging.
- B. Sealing: Before installation of hardware brush apply primer to all job site cut or planed surfaces.
 - 1. Primer: Type recommended by manufacturer.

3.03 INSTALLATION

- A. General: Install doors in accordance with manufacturer's recommendations and to comply with WDMA IS 1A and NFPA 80.
 - 1. Installation: By skilled finish carpenters or factory authorized installers.
 - 2. Installer: Thoroughly familiar with the requirements of the manufacturer's door warranty as currently in effect and assure compliance with all provisions.
- B. Hanging:
 - 1. After sizing doors, fit for hardware as scheduled.
 - 2. Hang doors to be free of binding with hardware functioning properly.

3.04 ADJUSTING AND PROTECTION

- A. Adjustment: At completion of job, adjust doors and hardware as required and leave in proper operating condition.
- B. Protection: Advise General Contractor of proper procedures required to protect installed wood doors from damages or deterioration until acceptance of entire project.
- C. Replacement: Refinish or replace doors damaged during installation.
 - 1. Causes for Rejection: Include chips, scratches or gouges.

END OF SECTION 08215