

SECTION 08 14 16 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes: Factory finished solid core doors with wood-veneer faces.
- B. Related section includes:

Section 08 11 13 - Hollow Metal Doors and Frames
Section 08 71 00 - Door Hardware
Section 08 81 00 - Glazing

1.03 SUBMITTALS

- A. Product Data: For each type of door. Include details of core and edge construction, trim for openings, and louvers.
- B. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; location and extent of hardware blocking; and other pertinent data, including fire rating and locations of cutouts.

1.04 QUALITY ASSURANCE

- A. Source Limitations: Obtain flush wood doors through one source from a single manufacturer.
- B. Quality Standard: Comply with AWI Quality Standard: AWI's "Architectural Woodwork Quality Standards" for grade of door, core, construction, finish, and other requirements.
- C. Fire-Rated Wood Doors: Doors complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252. Test Pressure at atmospheric pressure.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Protect doors during transit, storage, and handling to prevent damage, soiling, and deterioration. Comply with requirements of referenced standard and manufacturer's written instructions.

- B. Mark each door with individual opening numbers used on Shop Drawings. Use removable tags or concealed markings.

1.06 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install doors until building is enclosed, wet-work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during remainder of construction period.

1.07 WARRANTY

- A. General Warranty: Door manufacturer's warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Door Manufacturer's Warranty: Submit two copies of written agreement on door manufacturer's standard form, signed by manufacturer, Installer, and Contractor, agreeing to repair or replace defective doors that have warped (bow, cup, or twist) more than 1/4" in a 42-by-84" section or that show telegraphing of core construction in face veneers exceeding 0.01" in a 3" span, or do not comply with tolerances in referenced quality standard.
 - 1. Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors.
 - 2. Warranty shall be in effect during the following period of time after the date of Substantial Completion: Solid-Core Interior Doors: Life of installation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - Masonite Architectural
 - VT Industries

2.02 DOOR CONSTRUCTION, GENERAL

- A. All Solid Core Doors Shall be or match VT Industries, Heritage Collection, White Maple.
- B. Solid Core Doors for Transparent Finish: Comply with the following requirements:
 - 1. Grade: Premium (Grade A faces).
 - 2. Faces: White Maple, Plain-Sliced. Bookmatched and running match. Provide pair match at pairs of doors. Color to be selected by Architect.
 - 3. Stiles: Applied wood edges of same species as faces and covering edges of faces.

4. Construction: PC-5 (5-ply, ANSI A208.1 LD-2 particleboard core), or SLC-5 (5-ply, glued block core), at Contractor's option
 5. Particleboard: ANSI A208.1, Grade LD-2.
 6. Blocking: Provide wood blocking at particleboard-core doors as follows:
 - a. 5" top-rail blocking, at doors indicated to have closers.
 - b. 8-1/4" bottom-rail blocking, at doors indicated to have kick, mop, or armor plates.
 - c. 5" midrail blocking, at doors indicated to have exit devices.
 7. Doors shall be factory finished.
- C. Fire-Rated Doors: Comply with the following requirements:
1. Construction: Construction and core specified above for type of face indicated or manufacturer's standard mineral-core construction as required to provide fire rating indicated.
 2. Blocking: For mineral-core doors, provide composite blocking with improved screw-holding capability approved for use in doors of fire ratings indicated.
 - a. 5" top-rail blocking.
 - b. 8-1/4" bottom-rail blocking, at doors indicated to have kick, mop, or armor plates.
 - c. 4-1/2 x 10" lock blocks.
 - d. 5" midrail blocking at doors indicated to have exit devices.
 3. Edge Construction: At hinge stiles, provide manufacturer's standard laminated-edge construction with improved screw-holding capability and split resistance and with outer stile matching face veneer.
 4. Pairs: Provide fire-rated pairs with fire-retardant stiles that are labeled and listed for kinds of applications indicated without formed-steel edges and astragals.
 5. Doors shall be factory finished.

2.03 LOUVERS AND LIGHT FRAMES

- A. Metal Louvers: As specified in Division 23 and shown on mechanical drawings.
- B. Metal Frames for Light Openings in Fire Doors: Manufacturer's standard frame formed of 0.0478" thick, cold-rolled steel sheet, factory primed and approved for use in doors of fire rating indicated. Paint frames as directed by Architect.

2.04 FABRICATION

- A. Fabricate flush wood doors in sizes indicated for Project site fitting.
- B. At Contractor's option, he may furnish factory fit doors to suit frame-openings sizes indicated. He shall comply with clearance requirements of referenced quality standard for fitting. Comply with requirements of NFPA 80 for fire-rated doors.

- C. Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3. Comply with final hardware schedules, door frame Shop Drawings, DHI A115-W series standards, and hardware templates. Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before factory machining. Pre-machine metal astragals and formed-steel edges for hardware for pairs of fire-rated doors.
- D. Openings: Cut and trim openings through doors to comply with applicable requirements of referenced standards for kind(s) of door(s) required. At light openings - trim openings with moldings of material and profile indicated.

2.05 FACTORY FINISHING

- A. Comply with referenced quality standards requirements for factory finishing and finish wood doors at factory.
- B. Provide finish per drawings.
- C. Transparent Finish: Comply with requirements for grade, finish system, staining effect, and sheen.
 - 1. Grade: Custom.
 - 2. Finish: WDMA System TR-8 and AWS System 12
 - 3. Staining: Match approved sample for color.
 - 4. Effect: Filled finish.
 - 5. Sheen: Satin.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine installed door frames before hanging doors. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads. Reject doors with defects.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Hardware: For installation, see Division 8 Section "Door Hardware."
- B. Manufacturer's Written Instructions: Install wood doors to comply with manufacturer's written instructions, referenced quality standard, and as indicated. Install fire-rated doors in corresponding fire-rated frames according to NFPA 80.
- C. Job-Fit Doors: Align and fit doors in frames with uniform clearances and bevels as indicated below; do not trim stiles and rails in excess of limits set by manufacturer or permitted with fire-rated doors. Machine doors for hardware. Seal cut surfaces after fitting and machining.

1. Clearances: Provide 1/8" at heads, jambs, and between pairs of doors. Provide 3/4" at bottom of door. Where threshold is shown or scheduled, provide 1/4" from bottom of door to top of threshold. Comply with NFPA 80 for fire-rated doors.
2. Bevel non-fire-rated doors 1/8" at lock and hinge edges.
3. Bevel fire-rated doors 1/8" in 2" on lock edge; trim stiles and rails only to extent permitted by labeling agency.

3.03 ADJUSTING AND PROTECTING

- A. Operation: Re-hang or replace doors that do not swing or operate freely.
- B. Finished Doors: Refinish or replace doors damaged during installation.
- C. Protect doors as recommended by door manufacturer to ensure that wood doors are without damage or deterioration at the time of Substantial Completion.

END OF SECTION

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