

SECTION 08 14 16

WOOD DOORS

PART 1 GENERAL

1.1 SCOPE:

- A. Furnish and install wood doors as shown and as specified herein. Doors are to be of type, size, and design shown and scheduled on drawings.

1.2 RELATED WORK:

- A. Section 08 71 00 – Hardware
- B. Section 08 81 00 - Glass & Glazing
- C. Section 09 91 00 - Finishes

1.3 QUALITY REQUIREMENT:

- A. All wood doors shall meet N.W.W.D.A. Industry Standard 1-A and Architectural Woodwork Institute Section 1300-G-3, Type FPC-7.

1.4 SUBMITTALS

- A. Comply with requirements of Section 01 33 00.
- B. Submit shop drawings in accordance with General Requirements. Include full size molding section detail for light and louver installation. Show glazing material, louver type and thickness, and face veneer grade and species.

1.5 REFERENCES

- A. Comply with State of Arkansas Adopted ADA Accessible Guidelines in regard to accessible or handicapped features.

1.6 DELIVERY

- A. Package in heavy Kraft paper or polyethylene bags. Deliver and store in areas of Temperature and humidity such as will not adversely affect doors.
- B. Doors shall be packaged in individual cartons.

1.7 PROTECTION

- A. Protect work from damage until final acceptance.

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1.8 WARRANTY

- A. Manufacturer to provide lifetime warranty for interior duration, and two (2) year warranty for exterior duration.
- B. Door warp tolerance shall not exceed 1/4" in any section of the door.
- C. Stile, rail and core "telegraphing" shall not exceed 1/100" in any 3" span.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Masonite
- B. Oshkosh Architectural Door Company.
- C. VT Industries

2.2 MATERIALS

- A. Doors shall be 1 3/4" thick, 5 or 7 ply, solid core, stain grade, Heritage VT Door Type, rotary cut. Top and bottom rails to be 1 1/8" min. width, stiles 1 3/8" min. Width prior to field fitting. Core shall be wood particle core meeting ANSI A208.1, Grade 1-LD-1, or 1-LD-2 with a 28-32 lb density, and type II adhesive. Veneer shall be provided on side edges and shall match species of face veneer. Where a pair of doors are called for, face veneer shall be book-matched grain. Provide mineral composition core when fire rating is required.
- B. STC 45 at Paired Doors shall be 1 3/4" thick, multi-ply, composite sound core, stain grade, Heritage Collection: STC Series by VT Industries, rotary cut, natural birch, stain whet #07 to match existing. Top and bottom rails and vertical stiles to be Structural Composite Lumber (SCL). Veneer shall be provided on side edges and shall match species of face veneer. Door Manufacturer to provide all necessary gaskets, seals, corner pads and automatic door bottoms required to achieve the required STC 45 rating using the VT1-Pairs (W) Acoustical Seal System (NGP 225S Mortise automatic door bottom, NGP 5075 Triple fin smoke seal, NGP 5060 Silicone fin smoke seal and NGP 60FP Acoustical foam pad (x3)) Provide STC 45 Doors at door L123. Glazing lites to not exceed 216sq in. combined with glass stops per detail Veneer Wrapped #110 Metal Vision Frame, coordinate with glass lite material. Glass lite material to be 5/8" Laminated .060 PVB
- C. STC 50 at Single leaf doors shall be 1 3/4" thick, multi-ply, composite sound core, stain grade, Heritage Collection: STC Series by VT Industries, rotary cut, natural birch, stain whet #07 to match existing. Top and bottom rails and vertical stiles to be Structural Composite Lumber (SCL). Veneer shall be provided on side edges and shall match species of face veneer. Door Manufacturer to provide all necessary gaskets, seals, corner pads and automatic door bottoms required to achieve the required STC 50 rating using the VT7 (IA:H,I,K,O,Q,R,V,1,7,9-WI:U,A,K)) Acoustical Seal System (Pemko STC411APK

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automatic door bottom, Pemko S773 Adhesive perimeter seal, Pemko S44 Silicone seal and Pemko ACP112 Acoustical corner pad (x2)) Provide STC 50 Doors at doors L125, L125A, L126 and L126A. Glazing lites to not exceed 100sq in. combined with glass stops per detail Veneer Wrapped #110 Metal Vision Frame, coordinate with glass lite material. Glass lite material to be 1-1/8" Non-Rated IGU.

- D. Provide factory-prefinished doors from manufacturer to match existing finish. Architect to confirm match.

2.3 FABRICATION

- A. Fabricate premium type doors in accordance with requirements of WDMA Quality Standards (SCLC-5 or 7) unless specifically indicated otherwise.
- B. Fabricate fire rated doors in accordance with requirements of Underwriter's Laboratories (UL).
- C. Provide doors with edge strips, of wood species to match face veneers.
- D. Make cutouts and provide stops for glass, wood stops to be profile VT1 by VT Industries. At rated doors stops to be #110 by VT Industries.
- E. Pairs of doors shall be products of a manufacturer who can furnish such doors without astragals and meet the UL requirements.
- F. Pre-fit doors at factory with 1/8 inch tolerance on each vertical face, 1/8 inch tolerance at top, and 1/2 inch at bottom, except where undercuts are scheduled.
- G. Machine doors for hardware as required by Hardware Schedule listed in Section 08 71 00, which will be supplied together with all necessary templates for hardware requiring door preparation.
- H. Steel frame shop drawings will be furnished showing location and size of hardware preparation.
- I. Bevel strike edge of single acting doors 1/8 inch in 2 inches. Radius strike edge of double acting swing doors, 2-1/8 inches.
- J. All fire rated doors shall be factory prepped to receive hardware and glazing.
- K. Pre-finish doors at factory with clear WDMA System #6 finish.

PART 3 EXECUTION

3.1 INSTALLATION AND WORKMANSHIP:

- A. Install doors plumb and true to operate without bind or drag with 1/8" clearance top and sides. Provide 3/4" undercut at bottom unless indicated otherwise.
- B. Doors damaged before or after hanging will be replaced.
- C. All edge and end surfaces will be sealed with two (2) coats of door manufacturer's standard sealer before final hanging. **This includes top and bottom ends.**
- D. All necessary refitting or adjustment shall be the Contractor's responsibility during the guarantee period.
- E. Provide moldings and glass stops of same species as face veneers.
- F. If called for, wood louvers to be factory installed into properly prepared openings.
- G. Pre-machine bevel on vertical edges of single doors or meeting stiles of pairs of doors.
- H. Coordinate door light location with door hardware to assure no conflicts occur.
- I. For door leaf 3'-6" to 4'-0" or wider, provide preparation for 2 pairs butt hinges or continuous hinge as specified.

3.2 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver: Protect doors at all times. Deliver doors to site after plaster and cement are dry And building has reached average prevailing relative humidity of locality.
- B. Storage: Stack flat on 2 x 4 lumber, laid 12" from ends and across center. Under bottom door and over top of stack provide plywood or corrugated cardboard to protect door surface. Store doors in area where there will be no great variation in heat, dryness and humidity.
- C. Handling: Do not drag doors across one another.

3.3 INSPECTION

- A. Verify that door frames are of type required for door and are installed as required for proper installation of doors. Do not install doors in frames which would hinder the operation of the doors.

SPECIAL NOTE:

THERE CAN BE NO GLASS OR GLASS KITS IN DOORS THAT WILL INTERFERE WITH THE MOUNTING OF ANY FINISH HARDWARE. ENOUGH STILE AND RAIL MUST EXIST SO THAT NO SHIMS ARE NEEDED.

END OF SECTION

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