

**SECTION 08210
WOOD DOORS**

PART I - GENERAL

1.01 DESCRIPTION

- A. Scope: Work under this Section shall include all materials and installation necessary to provide Wood Doors as shown and detailed on the Drawings and shown herein.

1.02 QUALITY ASSURANCE

A. References:

1. Woodwork Institute of California (WIC): Manual of Millwork; Section 20.
2. National Fire Protection Association (NFPA): NFPA 80 – Fire Doors and Windows; and NFPA 252 – Standard Method of Fire Tests for Door Assemblies.
3. Underwriters Laboratories (UL): UL 10B – Fire Tests of Door Assemblies.
4. Warnock-Hersey (WH): Certification Listings for fire doors.

- B. Labels: Provide proper Underwriters' Laboratories, Inc. label for wood doors in fire-rated openings.

- C. Testing: One (1) or more doors, of each type, may be selected at random from those delivered for testing. Those tested or cut apart will be used to determine compliance with specified requirements; noncompliance is basis for rejection of all of that kind and type of door delivered to the site. Acceptable doors used for testing will be replaced at University's expense.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's specification, data, and installation instructions for review.

- B. Certificates: Submit WIC Certified Compliance Certificate for Installation.

1.04 PRODUCT HANDLING

- A. Do not use packing materials that will stain or discolor door surface.

- B. Storage: Per WIC Technical Bulletin No. 420-R for flush doors and No. 416-R for fire rated doors. Store materials under cover, in heated rooms and protected from damage, including exposure to excess humidity.

1.05 MAINTENANCE

- A. Guarantee: Provide in required form for a period of two (2) years from date of final acceptance by University.

PART II - PRODUCTS

2.01 MATERIALS

A. Wood Doors:

1. General: Conform to WIC Custom Grade Standards.
2. Manufacture:
 - a. Architectural Doors manufactured by Haley Bros., Inc., Architectural Door Division of the Weyerhaeuser Co., or equal.
3. Flush Type:
 - a. Exterior: 1- $\frac{3}{4}$ " thick.
 - b. Interior: 1- $\frac{3}{4}$ " thick.
 - c. Construction:
 - 1) Hollow Core: Expanded corrugated honeycomb.
 - 2) Solid Core:
 - a) Unrated and 20 Minute: Staved lumber [Particleboard].
 - b) Fire Rated: Mineral core; 45 [and 60] [and 90] minute.
 - 3) Edge-bands: NWMA hardwood.
 - d. Facing:
 - 1) Hardwood: Birch; plain sliced [Red oak; rift][Red oak; plain sliced][White oak; rift][White oak; plain sliced][Mahogany; Lauan][Mahogany; Honduras plain sliced][Mahogany; African quarter sliced][Walnut; plain sliced].
 - 2) Paint Grade: Hardboard.
 - 3) Plastic Laminate: Manufacturer's standard; color selected by the University's Representative.
 - e. Adhesive: PS 51 Type I and II.
 - f. Accessories:
 - 1) Anemostat Door Products Division of the Dynamics Corporation of America, Air Louvers, Inc., or equal.
 - 2) Louvers:
 - a) General: Model No. AFDL.
 - b) Fire Rated: Model No. FLDL-UL.

- 3) Vision Light Frames: Model No. BFL-75; glass and glazing per Division 8, Section 08810 – Glass and Glazing, as shown.
- 4) Fasteners: Manufacturer's standard; tamperproof.
- g. Finish: Manufacturer's standard finish as selected by University's Representative per Division 9, Section 09900 – Painting.
4. Transom Panels: Same construction as flush type doors.
5. Flush Full or Half Glazed Doors: Same construction as flush type doors; stile and rail glued block core with edge bands all sides.
6. Flush Dutch Doors: Each leaf of same construction as flush type doors. Provide solid wood shelf on lower leaf for application of plastic laminate top, as shown. Ease exposed edges and round corners.
7. Style and Rail Type:
 - a. Construction: 1-³/₄" thick Douglas fir [birch][red oak][white oak][mahogany][walnut]; solid lumber construction, as shown.
 - b. Adhesive: PS 51 Type I and II.
 - c. Finish: Manufacturer's standard finish as selected by University's Representative per Division 9, Section 09900 – Painting.

PART III - EXECUTION

3.01 PREPARATION

- A. Examination: Examine conditions of work in place before beginning work; report defects. Verify that doorframes are the type required for door and are properly installed. Install fire rated doors only in corresponding fire rated frames.

3.02 INSTALLATION

- A. General: Install in strict conformance with NFPA Pamphlet No. 80 "Installation of Fire Doors", other referenced standards, the manufacturer's written directions, as shown, and as herein specified. Make manufacturer's instructions available to the inspecting authorities.
- B. Tolerances:
 1. General: Maximum distortion measured with straight edge or taught string, corner to corner, over an imaginary 36" x 84" surface area.
 2. Diagonal (Warp), Vertical (Bow) and Width (Cup): $\frac{1}{8}$ ".
- C. Hardware: Per Division 8, Section 08710 – Finish Hardware. Fit doors to specified clearances; do not trim job fitted doors more than $\frac{1}{4}$ " from any edge.
- D. Glazing: Per Division 8, Section 08810 – Glass and Glazing.

E. Finishing:

1. General: Per Division 9, Section 09900 – Painting.
2. Priming: Prime or seal tops and bottoms of doors immediately upon delivery, unless factory sealed.
3. Preparation for Finishing: Use 150 grit sandpaper to remove handling marks or effects of exposure to moisture; steam out deep scratches, to satisfaction of University's Representative, and clean finish sand exposed surfaces before application of sealer or finish.
4. All electrically operated locks and strikes and locking hardware shall operate on 24 volts DC. All hardware shall use the manufactures recommended power supply. Power supplies shall be equipped with battery backup large enough to provide for 24 hours of operation with the door to remain locked. All electric strikes and electric locks shall be manufactured by Von Duprin, Schlage or Folger Adams. No substitutions allowed unless approved by University.
5. All doors that are in a fire rated wall must use electric locks that ensure positive latching at all times. When panic hardware has electric latch retraction and it is unlocked or in the day mode it is not latched this hardware is not permitted. The Fire Marshal has stated that the use of an electric strike in the unlocked position is not positively latched.

3.03 ADJUSTMENT

- A. General: Prior to acceptance, adjust moveable parts to assure smooth operation.

3.04 CLEANING

- A. General: Upon completion, thoroughly clean exposed surfaces per manufacturer's instructions.

END OF SECTION 08210