

SECTION 08210 – EXTERIOR WOOD DOORS

PART 1 - GENERAL

**1.01 Locations:**

- A. Exterior wood doors shall be used on campus at public entrances to existing buildings where the original doors were wood stile and rail doors. At new construction, wood doors may be considered at public entrances if appropriate given the building's location, use, and architectural character.

**1.02 Double Doors:**

- A. Solutions for securing double exterior wood doors vary with the use and conditions of each specific installation. All such proposed installations shall be submitted to the UNH Campus Architect for review and direction.

**1.03 Protection from Weather:**

- A. Exterior wood doors directly exposed to wind driven rain, splashing from roof run-off, or accumulated snow and/or ice, will be prone to rapid deterioration. In new installations, use of recessed entries, covered entries, and/or rain diverters is recommended. In cases where doors cannot be protected from the weather, regular refinishing of wood doors in accordance with these requirements, including hardware and flashing removal prior to refinishing, must be anticipated to improve long-term service.

**1.04 Minimum Width:**

- A. Any door intended for passage by the public shall not be less than 36" in width.

**1.05 Glazed Lites**

- A. Where doors are provided with glazed lites and do not have a transparent full length sidelite, the bottom edge of the lite shall be no more than 43" above finished floor and shall be glazed with transparent glazing material.

PART 2 - PRODUCTS

**2.01 Requirements:**

- A. Door thickness shall be: 2¼", with stiles 6" and top and bottom rails 8".
- B. Species: Honduran Mahogany from a forest that is managed in an ecologically and sustainably responsible manner. Other wood species may be approved on a case-by-case basis with written Owner authorization. Poplar is not an approved species under any conditions. Certification of wood origin and species used is required.
- C. Construction: Provide fully coped mortise and tenon stile and rail construction; stiles and rails can be laminated wood stave, (AWI 5<sup>th</sup> edition – premium grade), or laminated strand core, (AWI 6.1.1 edition); veneer shall be mahogany at the exterior face –

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laminated wood stave 1/8"-1/4"thick – laminated strand core min. 1/16" thick before sanding; undercut doors so as to provide 3/8" clearance above thresholds.

- D. Replacement wood doors shall match the appearance, dimensions, and profile of the original doors.

## 2.02 Manufacturer

- A. Door shall be custom made for the specific opening. Acceptable manufacturer, "Architectural Specialties Inc." of Boscawen, NH (603)-769-2444. Other manufacturers who can meet the technical requirements will be considered.

## 2.03 Finish

- A. Stain (if required); KTM waterborne stains are to be applied and wiped dry as many times as required to develop the desired tone.
- B. Sealer; Dow Corning 1-6248 water repellent cut with water (27 parts water to 1 part Dow Corning 1-6248)
- C. Finish: KTM finishes are available from Grafted Coatings, Inc. of Seymour, Connecticut; telephone # 203-888-5373

## PART 3 - EXECUTION

### 3.01 Door Finishing Requirements:

- A. Subsequent to preparing the door for hardware mounting, all hardware shall be removed prior to factory application of Dow Corning 1-6248 water repellent cut with water (27 parts water to 1 part Dow Corning 1-6248). Apply this preparation to wood freely and allow to dry thoroughly.
- B. Thereafter, apply two coats KTM high gloss plus one KTM satin topcoat. KTM satin topcoat to be crosslinked (using X-LINK) at two (2) ounces per gallon. X-Link is to be added just prior to applying the topcoat. KTM finishes are available from Grafted Coatings, Inc. of Seymour, Connecticut; telephone # 203-888-5373. Detailed application instructions of each specific product are available from UNH and/or Grafted Coatings Inc.
- C. Stain shall be KTM Waterborne Stain applied and wiped to develop the desired tone. Stain color to match other stained University exterior wood doors. Stain applied prior to sealer.
- D. Ensure that all surfaces of the doors, including and especially edges and hardware cutouts/mortises, receive specified finishing.
- E. The factory-applied finish, outlined above, shall not be compromised by field cutting, drilling, routing, planing, etc. of the doors without specific written authorization from the Owner. If such work is required in the field and the performance of the work is so authorized by the Owner, the affected portion(s) of the door(s) shall be refinished in the field in strict accordance with the factory finishing requirements specified above and in the manufacturer's literature. Further all such work and associated refinishing shall be scheduled with and fully monitored by the Owner's On-Site Representative.

### 3.02 Hardware Considerations:

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- A. Coordinate hardware for wood door thickness of 2-1/4".
- B. Provide 14 Ga. Brass or stainless steel flashing at door top and bottom depending on finish of hardware. Flashing at top of door to fit over top of door and turn down approximately 1/2". Flashing at bottom of door to be same except it shall be let-in to door such that face of flashing is flush with face of door.
- C. Use of vertical rods is not permitted; other solutions for securing doors shall be provided.
- D. Through-bolting of hardware is to be avoided.

END OF SECTION