

**SECTION 08 21 00
WOOD DOORS**

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Contractor is referred to the "Bid Book"; the "Standard Agreement" between the Construction Manager (CM) and the Contractor(s); "Division 01 - General Requirements" of the Contract Specifications"; the "Contract Drawings" and all Amendments and Addenda thereto; all of which govern the Work of this Section.

1.02 SCOPE OF WORK

- A. The Work of this Section includes all labor, materials, equipment and services necessary to complete the new interior wood door installation in existing/new frames in renovated/reconfigured apartments as indicated on the Drawings and/or specified herein including, but not limited to, the following:
1. Flush hollow-core wood swing doors with plastic laminate finish installed at:
 - a. Bedrooms (existing/new frames).
 - b. Bathrooms/Toilets (new slip-on frames).
 - c. Closets - single doors (existing/new frames, including on type).
 - d. Closets – double doors/pairs (new frames).
 2. Provide all other labor and materials as may be reasonably inferred to be required to make the Work of this Section complete.

1.03 RELATED WORK SPECIFIED ELSEWHERE

- A. The following additional Sections contain requirements that relate to the Work of this Section:
1. Section 02 05 00 – Selective Demolition/Removals/Cutting/Patching
 2. Section 08 10 00 - Metal Door Frames
 3. Section 08 71 00 - Door Hardware.

1.04 SUBMITTALS

- A. The following Shop Drawings, Catalog Cuts, Material Samples and other data pertaining to the Work of this Section shall be submitted in accordance with Division 01–General Requirements, Section 01000.1.7 Submittals:
1. Shop Drawings: Wood doors
 2. Manufacturer's Catalog Cuts: Wood doors
 3. Physical Sample: Corner section of wood door.

1.05 REFERENCES / APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this Specification to the extent referenced. Publications are referenced in text by basic designation only.
1. Architectural Woodwork Institute (AWI):
 - a. AWI Quality Standards, 7th Edition, version 1.0, 1997.
 - 1) National Wood Window and Door Association (NWWDA):
 - b. I.S. 1-A-93 Architectural Wood Flush Doors.

1.06 QUALITY STANDARDS

- A. Doors shall meet or exceed NWWDA Industry Standards I.S. 1 Series and AWI Quality Standards.
1. 1.07 DELIVERY / STORAGE / HANDLING
- B. Factory seal doors and accessories in minimum of 6-mil polyethylene bags or cardboard packages which shall remain unbroken during delivery and storage.
- C. Before shipping, label each door/package to show its location, size, door swing and other pertinent information.

- D. Protect doors from damage during handling and shipping. Doors will be inspected for defects when they arrive at the site, before and after installation. Damaged doors that are rejected shall be removed from the site and shall be replaced with new work at no additional cost to the Authority
- E. Doors shall be stored in accordance with NWWDA I.S. 1-4, G-20 Care and Installation at Job Site.

1.07 VERIFICATION / COORDINATION OF PROJECT CONDITIONS

- A. Where new doors are indicated to be installed in existing/new slip-on frames, Contractor shall carefully verify in field all frame opening sizes, saddle heights, hinge/strike locations, etc. prior to submission of shop drawings to ensure proper fit and compatibility. Any discrepancies between existing frame opening sizes and new door sizes as indicated on the Drawings shall be clearly marked on the Shop Drawings, together with any recommended door modifications, for approval by the Authority prior to fabrication.
- B. Any discrepancies between existing field conditions and new frame sizes which may affect new door sizes as indicated on the Drawings shall be clearly marked on the Shop Drawings, together with any recommended door modifications, for approval by the Authority prior to fabrication.

PART 2.00 – PRODUCTS

2.01 MATERIALS

- A. General: All doors shall be 1 3/8" (+1/16") thick, 6'-8" nom. high. In widths as indicated on the Drawings. All wood utilized in fabrication of doors shall be kiln-dried with a moisture content of 6 to 12%.
- B. Core Material: Shall be heavy-duty corrugated paper interlocked to form a honeycomb. Cell size shall not exceed 3-1/2" x 3-1/2" when material is expanded to its full extent, and core material shall be mechanically fastened to stiles and rails, and glue bonded to the face panels.
- C. Face Panels: Shall be high-pressure plastic laminate, min. thickness 0.030", by Wilsonart (Valley Pecan, #P361-A, smooth finish) or approved equal. Laminate shall be bonded to 1/8" hardboard by Georgia Pacific (STD HDBD #515) or approved equal.
 - 1. Stiles/Rails: Shall be poplar min. 1-1/8" thick x 2 1/4" wide after machining. Stiles and rails shall be mechanically fastened to each other before glueing.
 - 2. Lock Block: Shall be one-piece solid poplar installed on each side of the door to enable lock to be properly secured. Lock block shall be 20" long x min. 2 1/4" wide, mechanically fastened to each stile and glue bonded to face panels.
 - 3. Painting: Edges of doors shall receive three (3) coats of factory- applied coating as follows: two (2) shop coats of primer and one (1) finish coat, color to match face panels. Coatings shall be in accordance with manufacturer's recommendations.
- D. Fasteners: Screws for attaching existing/new hinges to doors shall be as specified in Section 08710 – Door Hardware.

2.02 ACCEPTABLE MANUFACTURERS

- A. The following manufacturers have indicated an ability to provide wood doors meeting the aforementioned specifications:
- B. NU-TECH Industries Inc.
- C. 7029 West 25th Avenue
- D. Gary, IN 46406
- E. Tel: (219) 844-1233
- F. Deutscher & Daughter
- G. 105-07 150th Street
- H. Jamaica, NY 11435

- I. Tel: (718) 291-5600
- J. 3. Or approved equal.

2.03 FACTORY PREFITTING

- A. Doors to be installed in new frames, including slip-on type, shall be factory machined to receive hardware, cutouts, accessories and fitting for frames.
- B. Doors to be installed in existing frames shall be factory machined to maximum extent possible, with final field fitting as required to ensure proper fit and compatibility with existing hardware to be reused.
- C. Hardware mounting heights for all new doors shall match existing installations as specified in Section 08710 – Door Hardware.
- D. Factory prefitting shall conform to requirements for shop and field fitting, including factory application of sealer to cutouts and routings.

2.04 IDENTIFICATION MARKS

- A. Identification marks shall be located on top edge of door.
- B. Provide either a stamp, brand or other indelible mark, including manufacturer's name, door's trade name, construction of door, code date of manufacture and quality.
- C. Provide identification of standards for door, including quality certification and glue type.

PART 3.00 - EXECUTION

3.01 PREPARATION

- A. Verify whether existing/new frame opening sizes, tolerances and other conditions are acceptable and ready to receive new door installation.
- B. The Contractor shall fit the new doors to the following frame/floor clearances:
 - 1. Top: 1/8" max. between door and head.
- C. Sides: 1/8" max. between door and jamb
 - 1. 3. Bottom: 1/2" max. between door and floor/saddle.
- D. Rout doors and provide cutouts for hardware at existing frames to whatever extent not previously done at the factory using templates and mounting heights as specified in Section 08710 – Door Hardware. Provide cutouts for any special details required.
- E. Immediately after fitting and cutting of doors for hardware, seal cut edges of doors with two coats of water-resistant sealer.

3.02 INSTALLATION

- A. Install locksets/latchsets and hang doors from existing/new hinges as specified in Section 08710 – Door Hardware.
- B. Doors shall be free from rattles when latched.
- C. The contacting edge of the door shall be no further than 1/4" from the jamb stop at any point.
- D. The Contractor shall make any necessary minor adjustments to new doors in the field to ensure compliance with required frame clearances/tolerances, and compatibility with existing hardware and other conditions.
- E. Care shall be taken not to mar or damage the plastic laminate faces of the doors during the installation phase. Any doors with damaged finishes shall be replaced by the Contractor at no additional cost to the Authority.
- F. "Touch-up" factory-applied finish paint coat at door edges to match existing after installation of hardware/doors.

3.03 PROTECTION

- A. In vacant/reconfigured apartments, place polyethylene bag or cardboard shipping container over each new door/knob and tape in place. Remove protection at time of completion of construction work.

END OF SECTION 08 21 00