SECTION 081433 - STILE AND RAIL WOOD DOORS

Revise this Section by deleting and inserting text to meet Project-specific requirements.

1. GENERAL
   * + 1. RELATED DOCUMENTS

Retain or delete this article in all Sections of Project Manual.

* + - * 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
      1. SUMMARY
         1. Section Includes:

Exterior stile and rail wood doors.

Interior stile and rail wood doors.

Interior fire-rated stile and rail wood doors.

Fire-rated wood door frames.

Factory fitting stile and rail wood doors to frames and factory machining for hardware.

Factory [**priming**] [**finishing**].

* + - 1. PREINSTALLATION MEETINGS

Retain "Preinstallation Conference" paragraph below if Work of this Section is extensive or complex enough to justify a conference.

* + - * 1. Preinstallation Conference: Conduct conference at [**Project site**] <**Insert location**>.
      1. SUBMITTALS
         1. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
         2. Manufacturer’s installation instructions shall be provided along with product data.
         3. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
         4. Product Data: For each type of product, including the following:

Details of construction[**and glazing**].

Door frame construction.

Factory-machining criteria.

Factory-[**priming**] [**finishing**] specifications.

* + - * 1. Sustainable Design Submittals:
        2. Shop Drawings: Indicate location, size, and hand of each door; elevation of each type of door; construction details not covered in Product Data, including those for stiles, rails, panels, and moldings (sticking); and other pertinent data, including the following:

Door schedule indicating door[**and frame**] location, type, size, fire protection rating, and swing.

Door elevations, dimensions and location of hardware, lite locations, and glazing thickness.

Details of frame for each frame type, including dimensions and profile.

Details of electrical raceway and preparation for electrified hardware, access control systems, and security systems.

Dimensions and locations of mortises and holes for hardware.

Clearances and undercuts.

Requirements for veneer matching.

Doors to be factory [**primed**] [**finished**] and application requirements.

Retain subparagraph below and applicable option if retaining other requirements for AWI's or WI's quality certification programs.

Apply [**AWI Quality Certification**] [**WI Certified Compliance**] Program label to Shop Drawings.

* + - * 1. Samples for Initial Selection: For [**factory-finished doors**] [**and**] [**factory-finished door frames**].

Delete "Samples for Initial Selection" paragraph above if colors and other characteristics are preselected and specified or scheduled. Retain "Samples for Verification" paragraph below with or without above.

* + - * 1. Samples for Verification:

Factory finishes applied to actual door face materials, approximately 8 by 10 inches, for each material and finish.[**For each wood species and transparent finish, provide set of three Samples showing typical range of color and grain to be expected in finished Work.**]

Corner sections of doors, approximately 8 by 10 inches, with door faces and edges representing actual materials to be used.

* + - 1. QUALITY CONTROL SUBMITTALS
         1. Qualification Data: For door inspector.

Retain one of or both "Fire-Rated Door Inspector" and "Egress Door Inspector" subparagraphs below, or delete first two subparagraphs and retain third subparagraph. First paragraph applies to IBC and NFPA 101. Second subparagraph applies to NFPA 101. Certification in third subparagraph should be acceptable by all authorities having jurisdiction. See the Evaluations.

Fire-Rated Door Inspector: Submit documentation of compliance with NFPA 80, Section 5.2.3.1.

Egress Door Inspector: Submit documentation of compliance with NFPA 101, Section 7.2.1.15.4.

Submit copy of DHI Fire and Egress Door Assembly Inspector (FDAI) certificate.

* + - * 1. Field quality control reports.
        2. Sample Warranty: For special warranty.
      1. CLOSEOUT SUBMITTALS.
         1. Special warranties.

Retain "Quality Standard Compliance Certificates" paragraph below if AWI Quality Certification Program or WI Certified Compliance Program is required.

* + - * 1. Quality Standard Compliance Certificates: [**AWI Quality Certification**] [**WI Certified Compliance**] Program certificates.
        2. Record Documents: For fire-rated doors, list of door numbers and applicable room name and number to which door accesses.
      1. QUALITY ASSURANCE

Retain one of two options in "Manufacturer's Certification" paragraph below if AWI Quality Certification Program or WI Certified Compliance Program is required. Both AWI and WI will inspect work and provide certification for work that passes inspection if manufacturer is not licensed under their respective programs.

* + - * 1. Manufacturer's Certification: Licensed participant in [**AWI's Quality Certification Program**] [**WI's Certified Compliance Program**].
        2. Fire-Rated Door Inspector Qualifications: Inspector for field quality control inspections of fire-rated door assemblies shall meet the qualifications set forth in NFPA 80, Section 5.2.3.1 and the following:

Retain subparagraph below if requiring fire door inspectors to be certified under DHI's certification program. Verify, with authorities having jurisdiction, if other DHI certifications are acceptable, such as Architectural Hardware Consultant (AHC), Certified Door Consultant (CDC), and Architectural Opening Consultant (AOC).

Door and Hardware Institute Fire and Egress Door Assembly Inspector (FDAI) certification.

* + - * 1. Egress Door Inspector Qualifications: Inspector for field quality control inspections of egress door assemblies shall meet the qualifications set forth in NFPA 101, Section 7.2.1.15.4 and the following:

Retain subparagraph below if requiring egress door inspectors to be certified under DHI's certification program. Verify, with authorities having jurisdiction, if other DHI certifications are acceptable, such as AHC, CDC and AOC.

Door and Hardware Institute Fire and Egress Door Assembly Inspector (FDAI) certification.

* + - 1. DELIVERY, STORAGE, AND HANDLING
         1. Comply with requirements of referenced standard and manufacturer's written instructions.

Retain first paragraph below for prefinished doors and high-quality unfinished doors.

* + - * 1. Package doors individually in opaque plastic bags or cardboard cartons.
        2. Mark each door on[**top and**] bottom rail with opening number used on Shop Drawings.
      1. FIELD CONDITIONS

Retain first "Environmental Limitations" paragraph below if relative humidity is not controlled during occupancy.

* + - * 1. Environmental Limitations: Do not deliver or install doors until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and HVAC system is operating and maintaining temperature and relative humidity levels designed for building occupants for the remainder of construction period.

Retain "Environmental Limitations" paragraph below if relative humidity will be controlled after building is occupied, and retain one of three options or insert another range based on local climatological data. First option applies to Ontario, Quebec, and most of the United States. Second option applies to damp coastal areas of southern United States and the Maritime Provinces. Third option applies to dry southwestern United States and to Alberta, Manitoba, and Saskatchewan. For unfinished wood doors, narrower ranges will be required to maintain optimum moisture content. See relative humidity and moisture content map in Architectural Woodwork Standards.

* + - * 1. Environmental Limitations: Do not deliver or install doors until building is enclosed and weathertight, wet work is complete and dry, and HVAC system is operating and maintaining temperature between 60 and 90 deg F and relative humidity between [**25 and 55**] [**43 and 70**] [**17 and 50**] <**Insert numbers**> percent during remainder of construction period.
      1. WARRANTY

When warranties are required, verify with Owner's counsel that warranties stated in this article are not less than remedies available to Owner under prevailing local laws.

* + - * 1. Special Warranty: Manufacturer agrees to repair or replace doors[**and frames**] that fail in materials or workmanship within specified warranty period.

Failures include, but are not limited to, the following:

Delamination of veneer.

Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.

Telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span.

Retain or delete first subparagraph below to suit Project. This provision is not standard with all manufacturers.

Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors[**and frames**].

Revise first subparagraph below to suit Project. Standard manufacturer's warranty generally goes into effect on date of shipment, not date of Substantial Completion.

Warranty shall be in effect during specified period of time from date of Substantial Completion.

Warranties for exterior doors vary from no warranty to a warranty for a period of up to five years. Before retaining "Warranty Period for Exterior Doors" subparagraph below, verify availability of warranty period with manufacturers; delete if retaining manufacturers that offer no warranty. Standard manufacturer's warranty generally goes into effect on date of shipment, not date of Substantial Completion.

Warranty Period for Exterior Doors: [**Two years**] [**Five years**].

"Warranty Period for Interior Doors" subparagraph below is typical; revise if required. Coordinate with manufactures included in Part 2.

Warranty Period for Interior Doors: [**One year**] [**Five years**] [**Life of installation**].

Retain subparagraph below if applicable. Before retaining, verify available warranty periods with specified manufacturers in PART 2.

Insulating[**Leaded**] Glass Vision Panels: [**Three**] [**Five**] years.

1. PRODUCTS

Manufacturers and products listed in SpecAgent and MasterWorks Paragraph Builder are neither recommended nor endorsed by the AIA or Deltek. Before inserting names, verify that manufacturers and products listed there comply with requirements retained or revised in descriptions and are both available and suitable for the intended applications.

* + - 1. MANUFACTURERS

Retain one or more of three "Source Limitations" paragraphs below if needed to help ensure product uniformity.

* + - * 1. Source Limitations: Obtain [**stile and rail wood doors**] [**each type of stile and rail wood door**] from single manufacturer.
        2. Source Limitations: Obtain[**custom**] stile and rail wood doors from same fabricator as work in [**Section 064214 "Stile and Rail Wood Paneling."**]
        3. Source Limitations: Provide[**custom**] stile and rail wood doors finished in same shop as work in [**Section 064214 "Stile and Rail Wood Paneling."**]
      1. PERFORMANCE REQUIREMENTS

Retain "Exterior Door Thermal Transmittance" paragraph below if applicable. Options are based on fenestration requirements of prescriptive path for energy efficiency in ICC 700. Third, fourth, and sixth options are recommended by the DOE and the EPA for the northern, north- and south-central, and southern zones of the United States, respectively.

* + - * 1. Exterior Door Thermal Transmittance: Maximum whole fenestration product U-factor of [**0.2**] [**0.30**] [**0.35**] [**0.40**] [**0.45**] [**0.65** ], <**Insert Btu/sq. ft. x h x deg F**, according to AAMA 1503, ASTM E1423, or NFRC 100.

Retain "Fire-Rated Wood Doors( and Frame) Assemblies" paragraph below if applicable.

* + - * 1. Fire-Rated Wood Door[**and Frame**] Assemblies: Complying with NFPA 80 that are listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings [**and temperature-rise limits**] indicated on Drawings, based on testing at positive pressure according to [**UL 10C**] [**or**] [**NFPA 252**].

Retain "Oversize Fire-Rated Door Assemblies" subparagraph below if required by authorities having jurisdiction.

Oversize Fire-Rated Door Assemblies: For units exceeding sizes of tested assemblies, provide certification by a qualified testing agency that doors comply with standard construction requirements for tested and labeled fire-rated door assemblies except for size.

Retain "Temperature-Rise Limit" subparagraph below if required. The IBC allows an exception for buildings equipped throughout with fire-suppression sprinklers.

Temperature-Rise Limit: [**Where indicated on Drawings**] [**At vertical exit enclosures and exit passageways**], provide doors that have a maximum transmitted temperature end point of not more than 450 deg F above ambient after 30 minutes of standard fire-test exposure.

Retain "Smoke- and Draft-Control Door Assemblies" paragraph below if required. The IBC requires fire door assemblies to comply with smoke- and draft-control requirements in corridors, smoke barriers, and smoke partitions.

* + - * 1. Smoke- and Draft-Control Door Assemblies: Listed and labeled for smoke and draft control by a qualified testing agency acceptable to authorities having jurisdiction, based on testing according to UL 1784 and installed in compliance with NFPA 105.
      1. MATERIALS
         1. Use only materials that comply with referenced standards and other requirements specified.

Assemble exterior doors, including components, with wet-use adhesives complying with ASTM D5572 for finger joints and with ASTM D5751 for joints other than finger joints.

Assemble interior doors, including components, with either dry-use or wet-use adhesives complying with ASTM D5572 for finger joints and with ASTM D5751 for joints other than finger joints.

* + - * 1. Panel Products: Any of the following unless otherwise indicated:

Particleboard: ANSI A208.1, Grade M-2.

Medium-density fiberboard (MDF,) complying with ANSI A208.2, Grade 130.

Hardboard complying with ANSI A135.4.

Veneer-core plywood.

Usually retain "Safety Glass" paragraph below for glass in doors or if glass for doors is not specified in Section 088000 "Glazing." Decorative glass may not be required to comply with paragraph below.

* + - * 1. Safety Glass: Provide products complying with testing requirements in 16 CFR 1201, for Category II materials, unless those of Category I are expressly indicated and permitted.
      1. EXTERIOR STILE AND RAIL WOOD DOORS

Retain first paragraph below if using exterior doors complying with AWI, AWMAC, and WI's Architectural Woodwork Standards or WDMA I.S. 6A.

* + - * 1. Exterior Stile and Rail Wood Doors[**Type SRD-**<**#**>]: Exterior [**stock**] [**custom**] doors complying with [**the AWI, AWMAC, and WI's Architectural Woodwork Standards,**] [**or**] [**WDMA I.S. 6A,**] and with other requirements specified.

[Performance Grade: WDMA I.S. 6A [Extra Heavy Duty] [Heavy Duty] [As indicated on Drawings](http://www.specagent.com/LookUp/?ulid=7026&mf=04&src=wd).

[**Architectural Woodwork Standards**] [**WDMA I.S. 6A**] Grade: Custom.

Retain "Panel Designs" subparagraph below if panel designs are indicated on Drawings.

Panel Designs: As indicated on Drawings.

Do not modify intended aesthetic effects, as judged solely by the Director’s Representative, except with the Director’s Representative’s approval.

If modifications are proposed, submit comprehensive explanatory data to Director’s Representative for review.

Finish: [**Transparent**] [**Opaque**].

Options in "Wood Species and Cut for Transparent Finish" subparagraph below are examples for transparent-finished doors. Fourth option is an example for use where several species are required; if retaining, indicate species on Drawings or insert additional subparagraphs here.

Wood Species and Cut for Transparent Finish: [**Idaho white, lodgepole, ponderosa, or sugar pine, plain sawed/sliced**] [**Douglas fir or western hemlock, quarter sawed/sliced (vertical grain)**] [**Red oak, quarter sawed/sliced stiles and rails, plain sawed/sliced panels**] [**Species indicated on Drawings, plain sawed/sliced**] <**Insert species and cut**>.

Delete "Door Construction for Transparent Finish" subparagraph below if any construction allowed by the selected quality standard is acceptable.

Door Construction for Transparent Finish:

Retain one of two "Stile and Rail Construction" subparagraphs below. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction.

Stile and Rail Construction: Clear lumber; may be edge glued for width. Select lumber for similarity of grain and color, and arrange for optimum match between adjacent pieces.

Stile and Rail Construction: Veneered, structural composite lumber[**or veneered, edge- and end-glued clear lumber**]. Select veneers for similarity of grain and color, and arrange for optimum match between adjacent pieces.[**Use veneers not less than 1/16 inch thick.**]

Retain one of four "Raised-Panel Construction" subparagraphs below. Revise if using doors with flat panels. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction. Matching requirements for veneered panels are included in referenced quality standards.

Raised-Panel Construction: Clear lumber; edge glued for width. Select lumber for similarity of grain and color, and arrange for optimum match between adjacent pieces.

First "Raised-Panel Construction" subparagraph below is most expensive; third is least expensive but may not be available from all manufacturers.

Raised-Panel Construction: Edge-glued, clear lumber; glued to both sides of a wood-based panel product. Select lumber for similarity of grain and color, and arrange for optimum match between adjacent pieces.

Raised-Panel Construction: Veneered, wood-based panel product with mitered, raised rims made from matching clear lumber.

Raised-Panel Construction: Veneered, shaped, wood-based panel product with veneer conforming to raised-panel shape.

Delete "Door Construction for Opaque Finish" subparagraph below if any construction allowed by the selected quality standard is acceptable.

Door Construction for Opaque Finish:

Retain one of two "Stile and Rail Construction" subparagraphs below. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction.

Stile and Rail Construction: Clear softwood; may be edge glued for width and finger jointed.

Stile and Rail Construction: Veneered, structural composite lumber[**or veneered edge- and end-glued lumber**].

Retain one of two "Raised-Panel Construction" subparagraphs below. Revise if using doors with flat panels. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction.

Raised-Panel Construction: Clear softwood lumber; edge glued for width.

Raised-Panel Construction: Veneered, wood-based panel product.

Stile and Rail Widths: [**As indicated on Drawings.**] [**Manufacturer's standard, but not less than the following:**]

Options in "Stiles, Top and Intermediate Rails" and "Bottom Rails" subparagraphs below are examples; revise to suit Project.

Stiles, Top and Intermediate Rails: [**5-3/8 inches**] <**Insert dimension**>.

Bottom Rails: [**11-3/8 inches**] <**Insert dimension**>.

Retain one option in "Raised-Panel Thickness" subparagraph below; last option is Architectural Woodwork Standards' minimum for 1-3/4-inch (44-mm) doors. Revise if using doors with flat panels.

Raised-Panel Thickness: [**As indicated on Drawings**] [**1-3/4 inches**] [**1-3/8 inches**] [**Manufacturer's standard, but not less than 1-1/8 inches**].

Molding Profile (Sticking): [**Bead and cove**] [**Ogee**] [**Ovalo**] [**Recessed bevel**] [**Recessed square**] [**Manufacturer's standard**] [**As selected by Director’s Representative from manufacturer's full range**].

Options in "Glass" subparagraph below are examples only.

Glass: Uncoated, clear, [**fully tempered float glass, 5.0 mm thick**] [**laminated glass made from two lites of 3.0-mm-thick annealed glass**] [**insulating-glass units made from two lites of 3.0-mm-thick, fully tempered glass with 1/4-inch interspace**] <**Insert requirements**>, complying with Section 088000 "Glazing."

Mark, label, or otherwise identify stile and rail wood doors as complying with WDMA I.S. 6A and grade specified.

* + - 1. INTERIOR STILE AND RAIL WOOD DOORS

Retain first paragraph below if using interior doors complying with AWI, AWMAC, and WI's Architectural Woodwork Standards or WDMA I.S .6A. Retain one of last two options. See the Evaluations. Review standard retained and coordinate its requirements with requirements retained.

* + - * 1. Interior Stile and Rail Wood Doors[**Type SRD-**<**#**>]: Interior [**stock**] [**custom**] doors complying with [**AWI, AWMAC, and WI's Architectural Woodwork Standards**] [**WDMA I.S. 6A**] and with other requirements specified.

Performance Grade: WDMA I.S. 6A [**Extra Heavy Duty**] [**Heavy Duty**] [**Standard Duty**] [**As indicated on Drawings**].

[**Architectural Woodwork Standards**] [**WDMA I.S. 6A**] Grade: Custom.

Retain "Panel Designs" subparagraph below if panel designs are indicated on Drawings.

Panel Designs: Indicated on Drawings. Do not modify intended aesthetic effects, as judged solely by the Director’s Representative, except with Director’s Representative’s approval. If modifications are proposed, submit comprehensive explanatory data to Director’s Representative for review.

Finish: [**Transparent**] [**Opaque**].

Options in "Wood Species and Cut for Transparent Finish" subparagraph below are examples for transparent-finished doors. Fourth option is an example for use where several species are required; if retaining, indicate species on Drawings or insert additional subparagraphs here.

Wood Species and Cut for Transparent Finish: [**Idaho white, lodgepole, ponderosa, or sugar pine, plain sawed/sliced**] [**Douglas fir or western hemlock, quarter sawed/sliced (vertical grain)**] [**Red oak, quarter sawed/sliced stiles and rails, plain sawed/sliced panels**] [**Species indicated on Drawings, plain sawed/sliced**] <**Insert species and cut**>.

Insert provisions here for blueprint-matching doors with architectural woodwork or wood paneling if matching is required.

Delete "Door Construction for Transparent Finish" subparagraph below if any construction allowed by the selected quality standard is acceptable.

Door Construction for Transparent Finish:

Retain one of two "Stile and Rail Construction" subparagraphs below. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction.

Stile and Rail Construction: Clear lumber; may be edge glued for width. Select lumber for similarity of grain and color, and arrange for optimum match between adjacent pieces.

Stile and Rail Construction: Veneered, structural composite lumber[**or veneered, edge- and end-glued clear lumber**]. Select veneers for similarity of grain and color, and arrange for optimum match between adjacent pieces.[**Use veneers not less than 1/16 inch thick.**]

Retain one of four "Raised-Panel Construction" subparagraphs or "Flat-Panel Construction" subparagraph below. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction. Note that matching requirements for veneered panels are included in referenced quality standards.

Raised-Panel Construction: Clear lumber; edge glued for width. Select lumber for similarity of grain and color, and arrange for optimum match between adjacent pieces.

First "Raised-Panel Construction" subparagraph below is most expensive; third is least expensive but may not be available from all manufacturers.

Raised-Panel Construction: Edge-glued, clear lumber; glued to both sides of a wood-based panel product. Select lumber for similarity of grain and color, and arrange for optimum match between adjacent pieces.

Raised-Panel Construction: Veneered, wood-based panel product with mitered, raised rims made from matching clear lumber.

Raised-Panel Construction: Veneered, shaped, wood-based panel product with veneer conforming to raised-panel shape.

Flat-Panel Construction: Veneered, wood-based panel product.

Delete "Door Construction for Opaque Finish" subparagraph below if any construction allowed by the selected quality standard is acceptable.

Door Construction for Opaque Finish:

Retain one of two "Stile and Rail Construction" subparagraphs below. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction.

Stile and Rail Construction: Clear softwood; may be edge glued for width and finger jointed.

Stile and Rail Construction: Veneered, structural composite lumber[**or veneered edge- and end-glued lumber**].

Retain one of two "Raised-Panel Construction" subparagraphs or "Flat-Panel Construction" subparagraph below. Generally, use solid-lumber construction only for softwoods or mahogany. WDMA I.S. 6A does not allow solid-lumber construction.

Raised-Panel Construction: Clear softwood lumber; edge glued for width.

Raised-Panel Construction: Shaped, medium-density fiberboard.

Flat-Panel Construction: [**Veneered, wood-based panel product**] [**Medium-density fiberboard**].

Stile and Rail Widths: [**As indicated.**] [**Manufacturer's standard, but not less than the following:**]

Options in "Stiles, Top and Intermediate Rails" and "Bottom Rails" subparagraphs below are examples; revise to suit Project.

Stiles, Top and Intermediate Rails: [**4-1/2 inches**] <**Insert dimension**>.

Bottom Rails: [**9 inches**] <**Insert dimension**>.

Retain one option in "Raised-Panel Thickness" subparagraph below, or delete subparagraph if not using raised panels. Last option is Architectural Woodwork Standards' minimum for 1-3/4-inch (44-mm) doors.

Raised-Panel Thickness: [**As indicated**] [**1-3/4 inches**] [**1-3/8 inches**] [**Manufacturer's standard, but not less than 1-1/8 inches**] [**Manufacturer's standard, but not less than 3/4 inch**].

Retain one option in "Flat-Panel Thickness" subparagraph below, or delete subparagraph if not using flat panels.

Flat-Panel Thickness: [**As indicated**] [**1/2 inch**] [**3/8 inch**] [**1/4 inch**].

Molding Profile (Sticking): [**Bead and cove**] [**Ogee**] [**Ovalo**] [**Recessed bevel**] [**Recessed square**] [**Manufacturer's standard**] [**As selected by Director’s Representative from manufacturer's full range**].

Options in "Glass" subparagraph below are examples only.

Glass: Uncoated, clear, [**fully tempered float glass, 5.0 mm thick**] [**laminated glass made from two lites of 3.0-mm-thick annealed glass**] <**Insert requirements**>, complying with Section 088000 "Glazing."

Mark, label, or otherwise identify stile and rail wood doors as complying with WDMA I.S. 6A and grade specified.

* + - 1. INTERIOR FIRE-RATED STILE AND RAIL WOOD DOORS

Retain first paragraph below if using interior fire-rated doors complying with AWI, AWMAC, and WI's Architectural Woodwork Standards or WDMA I.S .6A. Retain one of last two options. See the Evaluations. Review standard retained and coordinate its requirements with requirements retained.

* + - * 1. Interior Fire-Rated Stile and Rail Wood Doors[**Type SRD-**<**#**>]: Fire-rated (20-minute rating) doors complying with [**AWI, AWMAC, and WI's Architectural Woodwork Standards**] [**WDMA I.S. 6A**] and with other requirements specified.

Performance Grade: WDMA I.S. 6A [**Extra Heavy Duty**] [**Heavy Duty**] [**Standard Duty**] [**As indicated on Drawings**].

[**Architectural Woodwork Standards**] [**WDMA I.S. 6A**] Grade: Custom.

Retain "Panel Designs" subparagraph below if panel designs are indicated on Drawings.

Panel Designs: Indicated on Drawings. Do not modify intended aesthetic effects, as judged solely by the Director’s Representative, except with Director’s Representative’s approval. If modifications are proposed, submit comprehensive explanatory data to Director’s Representative for review.

Finish: [**Transparent**] [**Opaque**].

Options in "Wood Species and Cut for Transparent Finish" subparagraph below are examples for transparent-finished doors. Fourth option is an example for use where several species are required; if retaining, indicate species on Drawings or insert additional subparagraphs here.

Wood Species and Cut for Transparent Finish: [**Idaho white, lodgepole, ponderosa, or sugar pine, plain sawed/sliced**] [**Douglas fir or western hemlock, quarter sawed/sliced (vertical grain)**] [**Red oak, quarter sawed/sliced stiles and rails, plain sawed/sliced panels**] [**Species indicated on Drawings, plain sawed/sliced**] <**Insert species and cut**>.

Insert provisions here for blueprint-matching doors with architectural woodwork or wood paneling if matching is required.

Delete "Door Construction for Transparent Finish" subparagraph below if any construction allowed by the selected quality standard and complying with requirements for fire-resistance rating is acceptable.

Door Construction for Transparent Finish: 1-3/4-inch thick stiles and rails and veneered [**flat panels not less than 5/8 inch thick**] [**raised panels not less than 1-1/8 inches thick**].

Stile and Rail Construction: Veneered, structural composite lumber[**or veneered, edge- and end-glued clear lumber**]. Select veneers for similarity of grain and color, and arrange for optimum match between adjacent pieces.[**Use veneers not less than 1/16 inch thick.**]

Raised-Panel Construction: Veneered, shaped, wood-based panel product with veneer conforming to raised-panel shape.

Flat-Panel Construction: Veneered, wood-based panel product.

Edge Construction for Fire-Rated Single Doors: Provide edge construction with intumescent seals concealed by outer stile. Comply with specified requirements for exposed edges.

Retain one of two "Edge Construction for Fire-Rated Pairs of Doors" subparagraphs below. Retain first subparagraph if steel edges and astragals are unacceptable. Coordinate availability and ratings with manufacturers. Retain second subparagraph if steel edges and astragals are acceptable.

Edge Construction for Fire-Rated Pairs of Doors: Provide fire-retardant stiles that are listed and labeled for applications indicated without formed-steel edges and astragals. Provide stiles with concealed intumescent seals. Comply with specified requirements for exposed edges.

Edge Construction for Fire-Rated Pairs of Doors: Provide formed-steel edges and astragals with intumescent seals.

Finish steel edges and astragals with baked enamel[**same color as doors**].

Retain last subparagraph above or first subparagraph below; delete option above if edges and astragals are field painted.

Finish steel edges and astragals to match door hardware (locksets or exit devices).

Delete "Door Construction for Opaque Finish" subparagraph below if any construction allowed by the selected quality standard and complying with requirements for fire-resistance rating is acceptable.

Door Construction for Opaque Finish: 1-3/4-inch thick stiles and rails and veneered [**flat panels not less than 5/8 inch thick**] [**raised panels not less than 1-1/8 inches thick**].

Stile and Rail Construction: Veneered, structural composite lumber[**or veneered edge- and end-glued lumber**].

Raised-Panel Construction: Shaped medium-density fiberboard (MDF.)

Flat-Panel Construction: [**Veneered, wood-based panel product**] [**Medium-density fiberboard (MDF)**].

Edge Construction for Single Doors: Provide edge construction with intumescent seals concealed by outer stile. Comply with specified requirements for exposed edges.

Retain one of two "Edge Construction for Fire-Rated Pairs of Doors" subparagraphs below. Retain first subparagraph if steel edges and astragals are unacceptable. Coordinate availability and ratings with manufacturers. Retain second subparagraph if steel edges and astragals are acceptable.

Edge Construction for Fire-Rated Pairs of Doors: Provide fire-retardant stiles that are listed and labeled for applications indicated without formed-steel edges and astragals. Provide stiles with concealed intumescent seals. Comply with specified requirements for exposed edges.

Edge Construction for Fire-Rated Pairs of Doors: Provide formed-steel edges and astragals with intumescent seals.

Finish steel edges and astragals with baked enamel[**same color as doors**].

Retain last subparagraph above or first subparagraph below; delete option above if edges and astragals are field painted.

Finish steel edges and astragals to match door hardware (locksets or exit devices).

Stile and Rail Widths: [**As indicated on Drawings.**] [**Manufacturer's standard, but not less than the following:**]

Options in "Stiles, Top and Intermediate Rails" and "Bottom Rails" subparagraphs below are examples; revise to suit Project.

Stiles, Top and Intermediate Rails: [**4-1/2 inches**] <**Insert dimension**>.

Bottom Rails: [**9 inches**] <**Insert dimension**>.

Molding Profile (Sticking): [**Bead and cove**] [**Ogee**] [**Ovalo**] [**Recessed bevel**] [**Recessed square**] [**Manufacturer's standard**] [**As selected by the** Director’s Representative **from manufacturer's full range**].

Mark, label, or otherwise identify stile and rail wood doors as complying with WDMA I.S. 6A and grade specified.

Retain first paragraph below if using interior fire-rated (45-minute rating) doors complying with Architectural Woodwork Standards. Revise if doors with 60- or 90-minute ratings are required; verify availability with manufacturers.

* + - * 1. Interior Fire-Rated Stile and Rail Wood Doors[**Type SRD-**<**#**>]: Fire-rated (45-minute rating) doors complying with AWI, AWMAC, and WI's Architectural Woodwork Standards and with other requirements specified.

Performance Grade: WDMA I.S. 6A [**Extra Heavy Duty**] [**Heavy Duty**] [**Standard Duty**] [**As indicated on Drawings**].

[**Architectural Woodwork Standards**] [**WDMA I.S. 6A**] Grade: Custom.

Retain "Panel Designs" subparagraph below if panel designs are indicated on Drawings.

Panel Designs: Indicate on Drawings. Do not modify intended aesthetic effects, as judged solely by the Director’s Representative, except with Director’s Representative’s approval. If modifications are proposed, submit comprehensive explanatory data to Director’s Representative for review.

Finish: [**Transparent**] [**Opaque**].

Options in "Wood Species and Cut for Transparent Finish" subparagraph below are examples for transparent-finished doors. Fourth option is an example for use where several species are required; if retaining, indicate species on Drawings or insert additional subparagraphs here.

Wood Species and Cut for Transparent Finish: [**Idaho white, lodgepole, ponderosa, or sugar pine, plain sawed/sliced**] [**Douglas fir or western hemlock, quarter sawed/sliced (vertical grain)**] [**Red oak, quarter sawed/sliced stiles and rails, plain sawed/sliced panels**] [**Species indicated on Drawings, plain sawed/sliced**] <**Insert species and cut**>.

Insert provisions here for blueprint-matching doors with architectural woodwork or wood paneling if matching is required. Verify availability of matching for fire-rated doors before inserting requirements.

Verify panel thickness with manufacturers. Indicate door rating on Drawings or in schedules.

Interior Fire-Rated Door Construction: 1-3/4-inch thick, edged and veneered mineral-core stiles and rails and 1-1/8-inch thick, veneered mineral-core raised panels.

Edge Construction for Fire-Rated Single Doors: Provide edge construction with intumescent seals concealed by outer stile. Comply with specified requirements for exposed edges.

At hinge stiles, provide laminated-edge construction with improved screw-holding capability and split resistance. Comply with specified requirements for exposed edges.

Requirements in "Screw-Holding Capability" subparagraph below are from WDMA I.S. 1A, which is for flush wood doors. Options are performance-duty levels for Extra Heavy Duty, Heavy Duty, and Standard Duty, respectively. Before retaining, verify that products comply with requirement selected.

Screw-Holding Capability: [**550 lbf**] [**475 lbf**] [**400 lbf**] according to WDMA T.M. 10.

Retain one of two "Edge Construction for Fire-Rated Pairs of Doors" subparagraphs below. Retain first subparagraph if steel edges and astragals are unacceptable. Coordinate availability and ratings with manufacturers. Retain second subparagraph if steel edges and astragals are acceptable.

Edge Construction for Fire-Rated Pairs of Doors: Provide fire-retardant stiles that are listed and labeled for applications indicated without formed-steel edges and astragals. Provide stiles with concealed intumescent seals. Comply with specified requirements for exposed edges.

At hinge stiles, provide laminated-edge construction with improved screw-holding capability and split resistance. Comply with specified requirements for exposed edges.

Requirements in "Screw-Holding Capability" subparagraph below are from WDMA I.S. 1A, which is for flush wood doors. Options are performance-duty levels for Extra Heavy Duty, Heavy Duty, and Standard Duty, respectively. Before retaining, verify that products comply with requirement selected.

Screw-Holding Capability: [**550 lbf**] [**475 lbf**] [**400 lbf**] according to WDMA T.M. 10.

Edge Construction for Fire-Rated Pairs of Doors: Provide formed-steel edges and astragals with intumescent seals.

At hinge stiles, provide laminated-edge construction with improved screw-holding capability and split resistance. Comply with specified requirements for exposed edges.

Requirements in "Screw-Holding Capability" subparagraph below are from WDMA I.S. 1A, which is for flush wood doors. Options are performance-duty levels for Extra Heavy Duty, Heavy Duty, and Standard Duty, respectively. Before retaining, verify that products comply with requirement selected.

Screw-Holding Capability: [**550 lbf**] [**475 lbf**] [**400 lbf**] according to WDMA T.M. 10.

Finish steel edges and astragals with baked enamel[**same color as doors**].

Retain last subparagraph above or first subparagraph below; delete option above if edges and astragals are field painted.

Finish steel edges and astragals to match door hardware (locksets or exit devices).

Stile and Rail Widths: [**As indicated.**] [**Manufacturer's standard, but not less than the following:**]

Options in "Stiles, Top and Intermediate Rails" and "Bottom Rails" subparagraphs below are examples; revise to suit Project.

Stiles, Top and Intermediate Rails: [**4-1/2 inches**] <**Insert dimension**>.

Bottom Rails: [**9 inches**] <**Insert dimension**>.

Molding Profile (Sticking): [**Bead and cove**] [**Ogee**] [**Ovalo**] [**Recessed bevel**] [**Recessed square**] [**Manufacturer's standard**] [**As selected by the** Director’s Representative **from manufacturer's full range**].

* + - 1. FIRE-RATED WOOD DOOR FRAMES
         1. Interior Frames:

[**Architectural Woodwork** Standards] [**WDMA I.S. 6A**] Grade: [**Premium**] [**Custom**].

Retain "Wood Species and Cut" subparagraph below if frames and jambs match doors. Otherwise, retain both "Species" and "Cut" subparagraphs below.

Wood Species and Cut: Match species and cut indicated for wood doors unless otherwise indicated.

Options in "Species" subparagraph below are examples only; revise or insert another species.

Species: [**Anigre**] [**Select white ash**] [**Figured select white ash**] [**Select white birch**] [**Select red birch**] [**Cherry**] [**Select red gum**] [**Figured select red gum**] [**Select white maple**] [**Red oak**] [**White oak**] [**Persimmon**] [**Sapele**] [**Sycamore**] [**Walnut**] <**Insert species**>.

"Rift cut" option in "Cut" subparagraph below applies only to oak.

Cut: [**Plain sliced/plain sawn**] [**Quarter cut/quarter sawn**] [**Rift cut/rift sawn**].

Retain one of three options in "Wood Moisture Content" subparagraph below. First range applies to Ontario, Quebec, and most of the United States. Second applies to damp coastal areas of southern United States and Maritime Provinces. Third applies to dry southwestern United States, Alberta, Manitoba, and Saskatchewan. See relative-humidity and moisture-content map in the Architectural Woodwork Standards. Some locations have microclimates that differ from the surrounding region.

Wood Moisture Content: [**5 to 10**] [**8 to 13**] [**4 to 9**] percent.

Profile: [**T-stop**] [**Flat**] [**Single rabbet**] [**Double rabbet**] [**As indicated on Drawings**].

Construction: Solid lumber, fire-retardant particleboard, or fire-retardant medium density fiberboard (MDF) with veneered exposed surfaces and listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated on Drawings.

* + - 1. STILE AND RAIL WOOD DOOR FABRICATION

Retain one of first two paragraphs below. Before retaining, verify availability of factory fitting with manufacturers. Factory fitting is almost always done for custom doors, factory-finished doors, fire-rated doors, and doors hung in hollow-metal frames. Wood frames sometimes have extended jambs that can be trimmed to required height, so that doors fabricated in standard sizes can be used. Field fitting allows doors to be more closely fitted at the bottom.

* + - * 1. Factory fit doors to suit frame-opening sizes indicated, with the following uniform clearances and bevels unless otherwise indicated:

Clearances:

Options in first three subparagraphs below describe typical prefit clearances; revise to suit office practice and for doors thicker than 1-3/4 inches.

Provide [**1/8 inch**] <**Insert dimension**> at heads, jambs, and between pairs of doors.

Provide [**1/2 inch**] <**Insert dimension**>from bottom of door to top of decorative floor finish or covering.

Where threshold is shown on Drawings or scheduled, provide not more than [**3/8 inch**] <**Insert dimension**> from bottom of door to top of threshold.

Comply with NFPA 80 requirements for fire-rated doors.

Bevel non-fire-rated doors 1/8 inch in 2 inches at lock and hinge edges.

Bevel fire-rated doors 1/8 inch in 2 inches on lock edge; trim stiles and rails only to extent permitted by labeling agency.

* + - * 1. Fabricate stile and rail wood doors in sizes indicated for field fitting.

Typically, retain first subparagraph below. Factory machining is especially desirable for doors of special design and construction, factory-finished doors, and doors hung in hollow-metal frames.

* + - * 1. 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, BHMA-156.115-W, and hardware templates.

For doors scheduled to receive electrified locksets, provide factory-installed raceway and wiring to accommodate specified hardware.

Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before factory machining.

Retain one of two "Glazed Openings" paragraphs below. Usually retain second for stock doors and for custom doors made by door manufacturers. Verify practice with local woodworking shops for custom doors made by a woodworking shop.

* + - * 1. Glazed Openings: Trim openings indicated for glazing with solid-wood moldings, with one side removable. Miter wood moldings at corner joints.
        2. Glazed Openings: Factory install glazing in doors, complying with Section 088000 "Glazing." Install glass using manufacturer's standard elastomeric glazing sealant complying with ASTM C920. Secure glass in place with removable wood moldings. Miter wood moldings at corner joints.

Retain "Transom and Side Panels" paragraph below if applicable. Indicate here or on Drawings if doors and transoms are rabbeted. Verify that transom sizes and attachment methods comply with fire-protection ratings if using fire-rated doors with transoms.

* + - * 1. Transom and Side Panels:

Fabricate matching panels with same construction, exposed surfaces, and finish as specified for associated doors.

Finish bottom edges of transoms and top edges of rabbeted doors same as door stiles.

Retain first subparagraph below if applicable, or revise if another method of attachment is required.

Fabricate door and transom panels with full-width, solid-lumber[**, rabbeted,**] meeting rails.

Provide factory-installed spring bolts for concealed attachment into jambs of metal door frames.

* + - * 1. Exterior Doors: Factory treat exterior doors with water-repellent preservative after fabrication has been completed but before [**shop priming**] [**factory finishing**].

Comply with WDMA I.S. 4.

Retain subparagraph below for outswinging exterior doors. Before retaining, verify availability with manufacturers, or delete and include with weather stripping in Section 087100 "Door Hardware"

Flash top of outswinging doors with manufacturer's standard metal flashing.

* + - 1. FACTORY PRIMING

Retain this article if field-finished doors are required to be factory primed. Factory fitting is recommended to minimize damage to factory-primed doors.

* + - * 1. Doors for Opaque Finish: Shop prime faces, all four edges, edges of cutouts, and mortises with one coat of wood primer specified in [**Section 099114 "Exterior Painting."**] [**Section 099123 "Interior Painting."**]
      1. FACTORY FINISHING

Retain this article if factory finishing is required. Factory finishing can be used to help comply with sustainable design requirements, which limit VOC content of paints and coatings used within buildings. Factory finishing also has other advantages. See the Evaluations.

* + - * 1. Comply with referenced quality standard for factory finishing.

Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing.

Finish faces, all four edges, edges of cutouts, and mortises.

Stains and fillers may be omitted on [**top and**] bottom edges, edges of cutouts, and mortises.

Retain one of first three paragraphs below.

* + - * 1. Factory finish doors.
        2. Factory finish doors that are indicated to receive transparent finish.
        3. Factory finish doors where indicated in schedules or on Drawings.
        4. Transparent Finish:

In "(Architectural Woodwork Standards) (WDMA I.S. 6A) Grade" subparagraph below, usually retain same grade for finish as specified for doors.

[**Architectural Woodwork Standards**] [**WDMA I.S. 6A**] Grade: [**Premium**] [**Custom**].

Retain one of seven "Finish" subparagraphs below, or insert another finish system. Before specifying, verify availability of finishes with manufacturers. Finish systems vary among manufacturers. Require Samples for verification.

Finish: Architectural Woodwork Standards System 5, varnish, conversion.

Finish: Architectural Woodwork Standards System 9, UV Curable, Acrylated Epoxy, Polyester, or Urethane.

Finish: Architectural Woodwork Standards System 10, UV Curable, Water Based.

Finish: Architectural Woodwork Standards System 11, Polyurethane, Catalyzed.

Finish: WDMA I.S. 6A TR-4 Conversion Varnish.

Finish: WDMA I.S. 6A TR-6 Catalyzed Polyurethane.

Finish: WDMA I.S. 6A TR-8 UV Cured Acrylated Polyester/Urethane.

Staining: [**Match Approved sample**] [**As selected by the Diorector’s Representative from manufacturer's full range**] [**None required**].

Retain one of three options in "Staining" subparagraph above and usually one of three options in "Effect" subparagraph below. Some door manufacturers will not provide filled finish, because filling is best done by hand, which cannot be done on a finishing line; instead, some will offer semifilled finish as described below. Delete subparagraph below if using only closed-grain wood species.

Effect: [**Open-grain finish**] [**Filled finish**] [**Semifilled finish, produced by applying an additional finish coat to partially fill the wood pores**].

Retain one of two options in "Sheen" subparagraph below, or revise to suit Project.

Sheen: [**Satin**] [**Semigloss**].

* + - * 1. Opaque Finish:

In "(Architectural Woodwork Standards) (WDMA I.S. 6A) Grade" subparagraph below, usually retain same grade for finish as specified for doors.

[**Architectural Woodwork Standards**] [**WDMA I.S. 6A**] Grade: [**Premium**] [**Custom**].

Retain one of six "Finish" subparagraphs below, or insert another option. Before specifying, verify availability of finishes with manufacturers. Finish systems vary among manufacturers.

Finish: Architectural Woodwork Standards System 5, Varnish, Conversion.

Finish: Architectural Woodwork Standards System 9, UV Curable, Acrylated Epoxy, Polyester, or Urethane.

Finish: Architectural Woodwork Standards System 10, UV Curable, Water Based.

Finish: Architectural Woodwork Standards System 11, Polyurethane, Catalyzed.

Finish: WDMA I.S. 6A OP-4 Conversion Varnish.

Finish: WDMA I.S. 6A OP-6 Catalyzed Polyurethane.

Color: [**Match Approved sample**] [**As selected by the Director’s Representative from manufacturer's full range**].

Retain one of three options in "Sheen" subparagraph below, or revise to suit Project.

Sheen: [**Satin**] [**Semigloss**] [**Gloss**].

1. EXECUTION
   * + 1. EXAMINATION
          1. Examine doors and installed door frames, with Installer present, before hanging doors.

Verify that installed frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs.

Reject doors with defects.

* + - * 1. Proceed with installation only after unsatisfactory conditions have been corrected.
      1. INSTALLATION
         1. Hardware: For installation, see [**Section 087100 "Door Hardware."**].
         2. Install doors[**and frames**] to comply with manufacturer's written instructions and referenced quality standard, and as indicated.

Retain first subparagraph below for fire-rated door frames.

Install fire-rated door frames according to NFPA 80.

Install frames level, plumb, true, and straight.

Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.

Anchor frames to anchors or blocking built in or directly attached to substrates.

Secure with countersunk, concealed fasteners and blind nailing.

Use fine finishing nails[**or finishing screws**] for exposed fastening, countersunk and filled flush with woodwork.

For shop-finished items, use filler matching finish of items being installed.

Retain first subparagraph below for fire-rated doors.

Install fire-rated doors according to NFPA 80.

Retain subparagraph below for smoke- and draft-control doors. The IBC requires fire door assemblies to comply with smoke- and draft-control requirements in corridors, smoke barriers, and smoke partitions.

Install smoke- and draft-control doors according to NFPA 105.

Retain "Job-Fitted Doors" paragraph below if all doors are not factory fitted.

* + - * 1. Job-Fitted 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 for fire-rated doors.

Machine doors for hardware.

Seal edges of doors, edges of cutouts, and mortises after fitting and machining.

Clearances:

Clearances in first three subparagraphs below describe typical prefit clearances; revise to suit office practice and for doors thicker than 1-3/4 inches.

Provide 1/8 inch at heads, jambs, and between pairs of doors.

Provide [**1/8 inch**] [**1/4 inch**] [**3/8 inch**] [**1/2 inch**] from bottom of door to top of decorative floor finish or covering unless otherwise indicated on Drawings.

Where threshold is shown on Drawings or scheduled, provide [**1/4 inch**] [**3/8 inch**] from bottom of door to top of threshold unless otherwise indicated.

Retain first subparagraph below for fire-rated doors or if doors are not factory fitted.

Comply with NFPA 80 for fire-rated doors.

Bevel non-fire-rated doors 1/8 inch in 2 inches at lock and hinge edges.

Last subparagraph above is standard bevel; revise to suit Project if required. See the Evaluations. Retain subparagraph below for fire-rated doors or if not factory fitted. Fire-rated doors with more than a 20-minute rating can only be trimmed to a limited extent, because of narrow wood edges of stiles and rails.

Bevel fire-rated doors 1/8 inch in 2 inches on lock edge; trim stiles and rails only to extent permitted by labeling agency.

* + - * 1. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.
        2. Factory- Finished Doors: Restore finish before installation if fitting or machining is required at Project site.
      1. FIELD QUALITY CONTROL

Retaining second option in "Inspection Agency" paragraph is typical. If retaining second option in "Inspection Agency" paragraph, retain "Field quality-control reports" paragraph in "Informational Submittals."

* + - * 1. Inspection Agency: [**Director’s Representative will engage**] [**Engage**] a qualified inspector to perform inspections and to furnish reports to the Director’s Representative.
        2. Inspections:

Provide inspection of installed Work through [**AWI's Quality Certification Program**] [**WI's Certified Compliance Program**], certifying that woodwork, including installation, complies with requirements of the Architectural Woodwork Standards for the specified grade.

Fire-Rated Door Inspections: Inspect each fire-rated door in accordance with NFPA 80, Section 5.2.

Retain "Egress Door Inspections" subparagraph below for projects under NPFA 101, for Assembly, Educational, Day-Care, and Residential Board and Care occupancies.

Egress Door Inspections: Inspect each door equipped with panic hardware, each door equipped with fire exit hardware, each door located in an exit enclosure, each electrically controlled egress door, and each door equipped with special locking arrangements according to NFPA 101, Section 7.2.1.15.

* + - * 1. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.
        2. Reinspect repaired or replaced installations to determine if replaced or repaired door installations comply with specified requirements.
        3. Prepare and submit separate inspection report for each fire-rated door assembly indicating compliance with each item listed in [**NFPA 80**] [**and**] [**NFPA 101**].
      1. ADJUSTING
         1. Operation: Rehang or replace doors that do not swing or operate freely.
         2. Finished Doors: Replace doors that are damaged or do not comply with requirements. Doors may be repaired or refinished if Work complies with requirements and shows no evidence of repair or refinishing.

END OF SECTION 081433