

Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings.

Delete all "Specifier Notes" when editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

SECTION 08216 (08 14 33) STILE AND RAIL WOOD DOORS

Specifier Notes: This section covers VT Industries' architectural interior stile and rail wood doors. Consult VT Industries for assistance in editing this section for specific applications.

PART 1, GENERAL

1.1 SECTION INCLUDES

- A. Architectural interior, stile and rail wood doors.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 06460 (06 48 00) - Wood Frames.
- B. Section 08100 (08 12 00) - Metal Frames.
- C. Section 08710 (08 71 00) - Door Hardware.
- D. Section 08800 (08 80 00) - Glazing.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. Window and Door Manufacturers Association:
 - 1. ANSI/WDMA I.S.6-A - Industry Standards for Architectural Wood Stile & Rail Doors.
 - a. Custom grade.
 - 2. WDMA TR-6 – Factory Finish Catalyzed Polyurethane.

1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data.

Specifier Notes: Edit the following sentence as required.

- C. Shop Drawings: Submit manufacturer's shop drawings, including elevations, sections, and details, indicating door construction, dimensions, tolerances, materials, [panels,] [hardware,] [glazing,] [louvers,] and finish.
- D. Samples:
 - 1. Door: Submit manufacturer's sample of door showing materials and finish.
 - 2. Color:
 - a. Submit manufacturer's samples of standard wood veneers and stain colors, or;
 - b. Submit sample for custom color match.
- E. Maintenance and Cleaning Instructions: Submit manufacturer's maintenance and cleaning instructions for doors.
- F. Warranty: Submit manufacturer's standard warranty.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery:
 - 1. Deliver doors to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
 - 2. Individually polybag doors.
- B. Storage:
 - 1. Store doors in accordance with manufacturer's instructions.
 - 2. Store doors in clean, dry area indoors, protected from damage and all light sources.
 - 3. Store doors on a flat level surface, follow manufacturers printed instructions for storage and handling.
 - 4. Keep doors covered. Use covering which allows air circulation and does not permit light to penetrate.
 - 5. Store doors between 50 and 90 degrees F (10 and 32 degrees C) and 25 to 55 percent relative humidity.
 - 6. Do not subject doors to sudden changes in temperature or relative humidity.
- C. Handling:
 - 1. Handle doors in accordance with manufacturer's instructions.
 - 2. Protect doors and finish during handling and installation to prevent damage.
 - 3. Handle doors with clean hands or clean gloves.
 - 4. Lift and carry doors. Do not drag doors across one another or other surfaces.

1.6 GUARANTEE

- A. Provide Manufacturer's written guarantee against warpage, delamination and defects in materials and workmanship for the following time period:

Interior doors: 5 years, interior use.
- B. Any defects noted during the warranty period shall be corrected at no cost to the building owner.

PART 2, PRODUCTS

2.1 MANUFACTURER

- A. VT Industries, Inc.

2.2 STILE AND RAIL WOOD DOORS

- A. Doors: VT Industries architectural interior, stile and rail wood doors.

Specifier Notes: Specify door series and models. Consult VT Industries for custom stile and rail doors.

1. 1000 Series, Wood Panels: Model [1011] [1021] [1031] [1032] [1041] [1042] [1051] [1052] [1061] [1062] [1063] [1081] [1091].
2. 3000 Series, Glass Panels: Model [3011] [3021] [3081] [3101] [3121] [3151].
3. 5000 Series, Wood and Glass Panels: Model [5021] [5031] [5041] [5101] [5111] [5131] [5141].
4. 7000 Series, Louver Panels: Model [7011] [7021].
5. 9000 Series Wood and Louver Panels: Model [9021].

Specifier Notes: Specify custom grade construction. Custom grade is standard.

B. Compliance: WDMA I.S. 6-A, custom grade.

C. Design:

Specifier Notes: Specify panel type.

1. Panel Type: [Flat] [Raised] [Glazed] [Louver].

Specifier Notes: Specify door top.

2. Door Top: [Square] [Arch] [Radius].

Specifier Notes: Specify top panel.

3. Top Panel: [Square] [Arch] [Colonial] [Radius].

D. Non-Rated Doors:

Specifier Notes: Specify dimensions for non-rated doors. Refer to manufacturer's product listing for approved component dimensions.

1. Door Thickness: 1-3/4 inch.
2. Stile Width: 6 inch, unless otherwise noted.
3. Mullion Width: 3 inch, unless otherwise noted.
4. Rails:
 - a. Top Rail Width: 6 inch, unless otherwise noted.
 - b. Lock Rail Width: 8-3/4 inch, unless otherwise noted.
 - c. Cross Rail Width: 3 inch, unless otherwise noted.
 - d. Bottom Rail Width: 10 inch, unless otherwise noted.
5. Panels:

Specifier Notes: Specify raised or flat panels.

- a. Flat Panel Thickness: 5/8 inch; or
- b. Raised Panel Thickness: 1-1/8 inch.

Specifier Notes: Delete glass if not specified. Doors may be factory glazed or field glazed as determined by the Contractor.

6. Glass:

- a. Type: _____.
- b. Thickness: _____.

Specifier Notes: Delete louvers if not specified.

- 7. Wooden slat louvers shall be factory installed.

Specifier Notes: Specify bar/muntin width and thickness for 3000 and 5000 Series doors only.

- 8. Bar/Muntin:
 - a. Width: 1/2 inch.
 - b. Thickness: 1-3/4 inches.

E. 20-Minute Fire Rated Doors:

Specifier Notes: Specify dimensions for 20-minute rated fire doors. Refer to manufacturer's product listing for approved component dimensions.

- 1. Door Thickness: 1-3/4 inch.
- 2. Stile Width: 6 inch.
- 3. Mullion Width: 3 inch.
- 4. Rails:
 - a. Top Rail Width: 6 inch.
 - b. Lock Rail Width: 8-3/4 inch.
 - c. Cross Rail Width: 3 inch.
 - d. Bottom Rail Width: 10 inch.
- 5. Panels:
 - a. Raised Panel Thickness: 1-1/8 inch; or
 - b. Flat Panel Thickness: 5/8 inch
 - e. Minimum Panel Size: 11-1/2 inch x 11-1/2 inch
- 6. Fire Labels: Attach permanent fire label on hinge stile of each fire-rated door.

F. 45.60 and 90-Minute Fire Rated Doors:

Specifier Notes: Specify dimensions for 45-, 60- and 90-minute fire rated doors. Refer to manufacturer's product listing for approved component dimensions.

- 1. Door Thickness: 1-3/4 inch.
- 2. Stile Width: 6 inch.
- 3. Mullion Width: 3 inch.
- 4. Rails:
 - a. Top Rail Width: 6 inch.
 - b. Lock Rail Width: 8-3/4 inch.
 - c. Cross Rail Width: 3 inch.
 - d. Bottom Rail Width: 10 inch.
- 5. Panels:
 - a. Raised Panel Thickness: 1-1/8 inch; or
 - b. Flat Panel Thickness: 5/8 inch
 - c. Minimum Panel Size: 11-1/2 inch x 11-1/2 inch
- 7. Fire Labels: Attach permanent fire label on hinge stile of each fire-rated door.

2.3 DOOR CONSTRUCTION

A. Stile Edge: Matching hardwood stile edge.

B. Inner Stile & Rail:

- 1. Specified wood veneer pressed over structural composite lumber on non-rated & 20-minute doors

2. Specified wood veneer pressed over noncombustible material on 45,60 and 90-minute doors
- C. Panels:
1. Specified wood veneer pressed over medium density fiber core.
 2. Specified wood veneer pressed over fire retardant core.
 3. Specified MDF panels for limited use on one-, two-, or three-panel doors for painting.
- D. Provide doweled construction at stile and rail joints.
- E. Factory drill pilot holes for hinges and face plates.

Specifier Notes: Specify sticking used with panels or glass.

- G. Sticking Used with [Panels] or [Glass]: [Ovolo] [Square] [Ogee].

2.4 HARDWARE

- A. Factory machine doors in accordance with templates from specified hardware manufacturers and hardware schedule.

2.5 FINISH

- A. Stile and rail doors shall receive manufacturer's factory finish.
- B. Factory Finish: VT Industries' Permaguard™ finish.
1. Description: WDMA TR-6 catalyzed polyurethane system.

Specifier Notes: Specify stain color unless clear finish is required. Consult VT Industries for availability of custom stain colors. A minimum 3"x5" physical sample is required for custom color matching.

- a. Clear Finish: [Clear CL02], or
 - b. Stain Color: [Alpine AL02] [Grassland GR02] [Oasis OA02] [Ravine RA02] [Savanna SA02] [Timber TI02] [Wheat WH02]
 - c. Prime for opaque finished doors.
2. Sealers and Topcoats: UV-cured polyurethane.
- C. Top and Bottom Rails: Factory sealed.

PART 3, EXECUTION

3.1 EXAMINATION

- A. Carefully inspect the locations where the doors are to be installed. Notify the owner's representative of any conditions that would adversely affect the installation, or the subsequent operation of the door. Do not proceed until unsatisfactory conditions are corrected.
- B. Allow doors to become acclimated to building temperature and humidity before installation.
- C. Within four days of fitting each door, seal exposed surfaces with at least two coats of polyurethane.
- D. Use only skilled mechanics to install and adjust the finish hardware from Section 08700.
- E. After the doors have been adjusted and cleaned, place the poly-bags over the doors to provide protection while the remainder of construction proceeds.