

VT Industries, Inc.  
1000 Industrial Park  
PO Box 490  
Holstein, Iowa 51025  
Toll Free (800) 827-1615  
Phone (712) 368-4381  
Fax (712) 368-4111  
Website [www.vtindustries.com](http://www.vtindustries.com)  
E-mail [door\\_info@vtindustries.com](mailto:door_info@vtindustries.com)

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## 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*, as described in *The Project Resource Manual—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 064816

#### INTERIOR WOOD JAMBS

Specifier Notes: This section covers VT Industries interior wood jambs. Consult VT Industries for assistance in editing this section for the specific application. Visit [www.vtindustries.com/contact-us](http://www.vtindustries.com/contact-us) to locate a Territory Sales Manager in your region.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

Interior Wood Door Frames; non-rated and fire-rated shall be of Eggers Industries standard design and construction, conforming to the requirements of their applicable labeling service.

- A. Solid Lumber Construction
- B. Veneered Construction

##### 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project.

- A. Section 01 33 00 – Submittal Procedures
- B. Section 06 20 00 – Finish Carpentry
- C. Section 06 40 00 – Architectural Woodwork
- D. Section 08 06 00 – Schedules for Openings
- E. Section 08 14 16 – 5 Ply flush doors
- F. Section 08 14 33 – Stile and Rail wood doors
- G. Section 08 70 00 – Finish hardware

### 1.3 REFERENCES

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

- A. NFPA 252 - Standard Methods for Fire Assemblies.
- B. UBC 7-2, 1997
- D. UL 10 B - Fire Tests for Door Assemblies - Neutral Pressure [or] UL 10 C - Fire Tests for Door Assemblies - Positive Pressure
- E. NFPA 80 - Fire Doors and Windows.
- F. Quality Standards:
  - 1. AWS Quality Standards Edition 1, Custom [or] Premium
  - 2. ANSI A115. W Series, Wood Door Hardware Standards. (American National Standard Institute)
  - 3. LEED NC – Version 4

Specifier Notes: Edit the following list of related sections as required for the project.

#### Frame Construction

##### **Solid Lumber:**

- I. Non-rated/20-minute solid lumber with no added urea-formaldehyde bonding resins.

##### **Veneered:**

- I. Non-rated/20-minute FSC certified Medium Density Fiberboard core consisting of recycled fiber (CARB ULEF or NAF) non-rated and 20 minute laminated with no added urea-formaldehyde bonding resins.
- II. 45-minute Medium Density Fiberboard (minimum 45 lbs./cu.ft.) core (CARB ULEF/NAF) consisting of recycled fiber laminated with no added formaldehyde bonding resins
- III. 90 Minute Fire rating –non-combustible core laminated with no added formaldehyde bonding resins

#### G. Labeling Agencies

- 1. Underwriters Laboratories, Inc. (UL) (Neutral pressure and Positive pressure rated doors)
- 2. Intertek Testing Services-Warnock Hersey (ITS-WH) (Ratings for both Neutral pressure and Positive pressure rated doors)

### 1.4 SUBMITTALS

Specifier Notes: Edit the product listings as required for your project.

- A. Submit under provisions of AWS Section 6
- B. Shop drawings: Illustrate frame opening criteria, elevations, sizes, types, swings.
- C. Indicate compliance with positive pressure.
- D. Product Data: Indicate materials, thickness, construction, veneer and lumber species [Veneer and lumber color selection required in Ash, Birch and Maple].
- E. Construction samples: Submit one or more of manufacturer's standard samples demonstrating frame construction.
- F. Finish samples: illustrating the range of color and grain of the specified door face materials.

## **1.5 QUALITY ASSURANCE**

- A. AWS Quality Standards Edition 2 Custom Grade [or] Premium Grade.
- B. AWI QCP program Yes [or] No
- C. Labeled Frames: Listed and conform to the requirements of:
  - 1. Underwriters Laboratories (UL).

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Store, protect and handle products under provisions of AWS Section 2: Care & Storage
- B. Accept frames on site in manufacturer's standard packaging. Inspect for damage. Do not store in damp or wet areas. HVAC systems must be operating and balanced prior to arrival of frames. Acceptable humidity shall be no less than 25% or greater than 55%.
- C. Certain wood species are light sensitive. Protect frames from exposure to natural and artificial light after delivery.
- D. Store flat on a level surface in a dry, well ventilated building. Protect with an opaque covering that does not permit light to penetrate to keep the parts clean and avoid discoloration. Covering must allow air circulation. If stored more than one week, all edges must be sealed. Deliver to building site after HVAC system is operating and balanced and plaster or cement is dry.
- E. Frames should not be subjected to extreme heat and/or humidity. Relative humidity shall not be less than 25% or greater than 55% and temperatures shall not be less than 50° F or greater than 90° F.
- F. Frames prefinished at the factory shall be checked against approved finish sample prior to installation. (Installation of prefinished frames shall constitute acceptance.)
- G. Pilot holes must be drilled for all screws that act as attachments.

## **1.7 COORDINATION**

- A. Coordinate work under provisions of Section 06 20, 06 40, 08 06, 08 11, 08 14
- B. Coordinate the work with door opening construction, door hardware installation with a pre-installation conference.

## **1.8 WARRANTY**

- A. Provide manufacturer's warranty to the following term:
  - 1. Follow manufacturers' coverage of tolerances, exclusions, delaminating, warping, bow, cup and telegraphing.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURER**

- A. VT Industries, Inc., One Eggers Drive, Two Rivers, Wisconsin, 54241. Phone (920) 793-1351 or 1000 Industrial Park, Holstein, IA 51025. Phone (800) 827-1615. [www.vtindustries.com](http://www.vtindustries.com). [door\\_info@vtindustries.com](mailto:door_info@vtindustries.com).
- B. Substitutions allowed only if approved by the architect prior to bid date with same design intent.

**2.2 MATERIALS**

**A. WORKMANSHIP**

- 1. Comply with AWS workmanship for Solid Lumber or Veneered Construction material, veneer faces, lumber species, frame thickness, exposed surfaces and dimensional tolerances.

**B. INTERIOR WOOD FRAME CONSTRUCTION GRADE**

AWS Quality Standards Edition 2 Custom Grade [or] Premium Grade.

**C. LUMBER SPECIES OR WOOD VENEER**

- 1. Lumber species shall be:
- 2. Wood veneer shall be: (specify species and cut)

**2.3 FABRICATION**

Specifier Notes: Edit the product listings as required for your project.

**A. INTERIOR WOOD FRAME CONSTRUCTION**

- 1. Non-rated:
  - (a) Solid Lumber
    - (i) Frame Type [Choose one]
      - 1. Single Rabbet
      - 2. Double Rabbet
      - 3. Flat Style with Applied Stop
      - 4. Ploughed Style with T-Stop
    - (ii) Frame Joinery [Choose one]
      - 1. Rabbet
      - 2. Butt
      - 3. Miter

OR

- (b) Veneer Wrapped
  - (i) Frame Type [Choose one]
    - 1. Flat Style with Applied Stop
    - 2. Ploughed Style with T-Stop
  - (ii) Frame Joinery [Choose one]
    - 1. Rabbet
    - 2. Butt
    - 3. Miter

- 2. 20 minute Fire-Rated
  - (a) Solid Lumber
    - (i) Frame Type [Choose one]
      - 1. Single Rabbet

2. Double Rabbet
3. Flat Style with Applied Stop
4. Ploughed Style with T-Stop

(ii) Frame Joinery

1. Manufacturers default based upon fire testing

OR

(b) 20 Minute Fireguard PLUS Veneer Wrapped

(i) Frame Type [Choose one]

1. FG-H1-Veneer Edge
2. FG-H2-Lumber Edge
3. FG-H3- Bull nosed Lumber Edge

(ii) Frame Joinery

1. Manufacturers default based upon fire testing

3. 45 minute fire-rated

(a) Solid Lumber

(i) Frame Type [Choose one]

1. Single Rabbet
2. Double Rabbet
3. Flat Style with Applied Stop
4. Ploughed Style with T-Stop

OR

(b) Veneer Wrapped

(i) Frame Type [Choose one]

1. Flat Style with Applied Stop
2. Ploughed Style with T-Stop

(ii) Frame Joinery

1. Manufacturers default based upon fire testing

4. 90-minute fire-rated

(a) Veneer Wrapped

(i) Frame Type

1. Applied Stop

(b) Frame Joinery

1. Manufacturers default based upon fire testing

## H. MACHINING

Factory machine frames for finish hardware in accordance with hardware and NFPA 80 requirements and dimensions. Do not machine for surface hardware. Apply appropriate fire labels. Coordinate machining with doors

## 2.4 FACTORY FINISH

- A. Grade [Custom] or [Premium]
- B. Frames to be factory finished to meet or exceed AWS section 5 specifications for a UV curable polyester urethane finish system. Factory finish to be VT's Gardall - water based stain and UV curable polyester urethane finish system that complies with all applicable Federal and State regulations for Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emission limitations per the EPA Clean Air Act.  
Color shall be VT's

- 1. Description: WDMA TR-8 UV Cured Acrylated Polyester Urethane

Specifier Notes: Specify stain color, unless clear finish is required. Consult VT Industries for availability of custom stain colors. A minimum 3-inch by 5-inch physical sample is required for custom color matching.

- a. Clear Finish: Clear.
  - b. Stain Color: [Alpine] [Chocolate] [Grassland] [Oasis] [Onyx] [Ravine] [Riverstone] [Savanna] [Serengeti] [Timber] [Wheat].
  - c. Prime for opaque finished doors.
  - 2. Sealers and Topcoats: WDMA TR-8 (UV Cured Acrylated Polyester Urethane).
- C. Custom factory finish frames in accordance with approved sample.
  - D. Submit approved sample for all factory finishing.
  - E. Factory finished frames to be installed just prior to substantial completion.
  - F. Opaque Finish (Paint) Meet AWS specifications for opaque conversion varnish

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify substrate opening conditions under provisions of Section [\_\_\_\_\_].
- B. Verify that opening sizes and tolerances are acceptable and ready to receive this work.
- C. Use three hinges for frames 7'-6" in height or less and one additional hinge for each incremental 30 inches of height over 7'-6"

### 3.2 INSTALLATION

- A. Install fire-rated and non-rated wood door frames in accordance with NFPA 80, Manufacturers' instructions and to ITS-WH/UL requirements listed on [www.vtindustries.com](http://www.vtindustries.com)
- B. Install interior wood frames level, plumb, and aligned with adjacent materials.
- C. Coordinate installation of frames with materials and systems in or adjacent to it.

### 3.3 WARRANTY TOLERANCES

- A. Conform to AWS standards and testing methods for warp, cup, bow and telegraphing.