



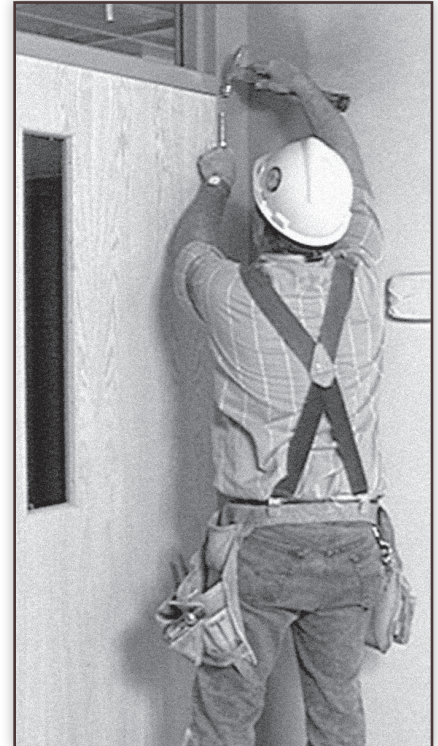
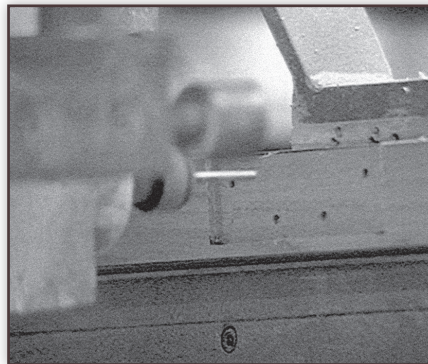
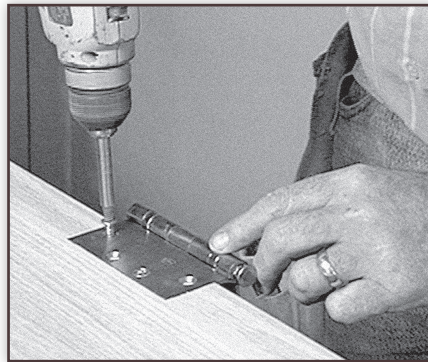
# J O B S I T E

Information for VT Architectural Wood Doors and Wood Jambs

## What You'll Find In This Brochure:

- Door Identification
- Door Inspection
- Storage and Handling
- Field-Finished Wood Veneer Doors
- Factory-Finished Wood Veneer Doors
- High Pressure Decorative Laminate (HPDL) Doors
- Acoustical Doors
- Palladium Doors
- Exterior Doors
- Installation Guidelines
- Special Hardware Applications
- Field Fitting Doors
- Door Tolerances
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- Installation Instructions for UL 10C Door Assemblies (Positive Pressure)
- How to Read VT Eggers Collection Stile & Rail Door Labels
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- Installing Eggers Collection Glazing and Edge Sets
- Wood Jamb Care, Handling, and Maintenance

**VT Industries, Inc.** provides architectural grade interior wood doors that have been manufactured in accordance with customer requirements, as well as WDMA and AWS quality standards for flush wood doors and stile and rail doors. The following are guidelines for those working with our products on the jobsite. Please take a few minutes to read through all information to ensure customer satisfaction. Contact VT's Customer Service Center at 1-800-827-1615 with any questions or concerns regarding your VT doors.



Please take a few minutes to read through all information to ensure customer satisfaction.



# VT Field Guide

## Door Identification:

VT doors are identified by a permanently affixed label on the top rail of each door. Fire labels are placed on the hinge stile, unless hardware prohibits it; in that case, the fire label will also be placed on the top rail. Should you have a question regarding one of your doors, please refer to the door information on the top rail before calling the factory. This will allow our Customer Service Representatives to assist you more easily. See back page for example ID label. **DO NOT REMOVE ID LABELS FROM DOORS.**

## Door Inspection:

- 1 Inspect all doors for freight damage immediately upon receipt. Note identification numbers of any damaged doors on delivery ticket before signing. Failure to do so may result in refusal of claim.
- 2 All doors should be inspected for manufacturing flaws prior to field finishing and/or installation. Any claims must be made prior to hanging doors.
- 3 Upon receipt of any claims, VT will acknowledge in writing to assure prompt evaluation and handling.

## Storage & Handling:

- 1 Store doors flat on a level surface in a dry, well-ventilated building. Doors should not come in contact with water. Doors should be kept at least 4 in. (102 mm) off the floor with cross supports and should have protective coverings under the bottom door and over the top. Covering should protect doors from dirt, water and abuse but allow for air circulation under and around the stack.
- 2 Avoid exposure of interior doors to direct sunlight. Certain species (e.g., cherry, mahogany, walnut,

and teak) in an unfinished state are more susceptible to discoloration if exposed to sunlight or some forms of artificial light. Consider using opaque wrapping of individual doors to protect them from light damage after delivery.

- 3 HVAC systems shall be installed and operable prior to the storage or installation of architectural doors. Do not subject interior doors to extremes of heat and/or humidity. Prolonged exposure may cause damage. Buildings should maintain a relative humidity level of 25% to 55% and a temperature between 10°C to 32°C (50°F-90°F) It's recommended that site storage, staging and installation areas be monitored for temperature and humidity from delivery to substantial completion to verify warranty compliance. Once doors are installed, it is the responsibility of the building owner to maintain the relative humidity and temperatures necessary to minimize the dimensional changes in the doors. Do not install doors in buildings that have wet plaster or cement.

## Field-Finished Wood Veneer Doors:

*Field finisher is completely responsible for finished appearance of wood doors or panels. VT warranty does not apply to appearance of field-finished doors. The following recommendations are made to assist the field finisher.*

- 1 Prior to finishing, ensure that the building atmosphere is dried to a normal, interior relative humidity. Ensure that the doors have been allowed to equalize to a stable moisture content.
- 2 Prior to finishing, remove all handling marks, raised grain and

**other undesirable blemishes by completely block or power sanding all surfaces with a 100-150 fine-grit sandpaper. Place doors in a horizontal position and sand with the grain of the wood. If any undesirable reactions or problems arise, stop finishing and notify your door supplier immediately.**

- 3 Certain species of wood, particularly oak, contain chemicals which react unfavorably with certain finishes causing dark stain spots. Where possible, the species/finish combination should be tested prior to finishing the doors. **Notify your finish supplier or door supplier immediately if any undesirable reaction is noticed.** Do not continue with the finishing until the problem is resolved.
- 4 In order not to induce warpage, avoid dark stains or dark-colored paints on door surfaces. Exposure to light can cause warpage.
- 5 In order to prevent blemish magnification, avoid extremely dark stains on light-colored wood species.
- 6 Top and bottom rails are factory sealed on all Heritage flush wood doors. No additional sealing is required unless field-trimmed in height.
- 7 To achieve the desired results of color uniformity, finish build, gloss, and to reduce the frequency of refinishing, obtain and follow finish manufacturer's recommendations.
- 8 Be sure the door surface being finished is satisfactory in both smoothness and color after each coat before you apply the next coat.
- 9 **NEVER REMOVE FIRE LABEL FROM THE HINGE STILE OF A DOOR.**
- 10 **NEVER PAINT OVER FIRE LABEL.**

## Factory-Finished Wood Veneer Doors:

VT's factory finishes envelopes every wood veneer door in a shield of protection even stronger than used on wood flooring. Our flush doors use an UV cured water-based factory finish system to meet WDMA TR-8 and AWS System 9 is standard. There are unlimited stain color options available. With many of the restrictions placed on jobsites today, VT's factory finishing can relieve the stress of finding a local site where field finishing can take place safely and satisfactorily.

VT's wood veneer doors are manufactured using "A" or "AA" grade wood veneers, unless otherwise specified. One consideration when working with wood veneer doors, however, is that wood is a product of nature; and, as such, varies in appearance. Certain color variations or markings are inherent to particular wood species and cannot be hidden by staining. For normal cleaning and maintenance, wipe doors with a clean, damp cloth using a mild detergent. Furniture polishes are not recommended due to waxy build up over time. Likewise, abrasive cleaners or utensils should not be used.

## HPDL Doors:

Laminate manufacturers require certain laminate finishes be supplied with protective peel coats. VT is not responsible for the removal of peel coats from laminate doors. For normal cleaning and maintenance, wipe the laminate with a clean, damp cloth or sponge using a mild soap or detergent. General purpose cleaners such as PineSol™, Fantastic™, or Lestoil™ may also be used. Abrasive cleaners or utensils should not be used on conventional laminate doors since the laminate could easily be damaged.

## Acoustical Doors:

VT's acoustical (STC) doors are fabricated 1-3/4" thick and require a standard 1-15/16" rabbetted doorframe. Acoustical HPDL doors will receive high pressure decorative laminate stiles to match or complement the door face. Stained or painted stiles are also available upon request.

## Palladium® Doors:

Palladium Doors are manufactured with a high-impact vinyl material. To clean, degrease, and remove stains, spray cleaners such as Fantastic®, Chlorox® Clean-Up, or orange citrus cleaners can be used. For tougher stains, like marker, paint, rubber heel marks, and medical stains, a 10% bleach solution can be used, but must be rinse-wiped following cleaning. Pink Pearl® eraser, Mr. Clean® Magic Eraser, and 3M Scotch-Brite™ Easy Erasing pads can also be used to remove stubborn stains. Scratches to the Woodland face material can be repaired with the use of Mohawk® Fil-Stik to match the face color.

## Exterior Doors:

VT offers a limited 3-year warranty from the date of original installation on the following doors if ordered with an exterior construction: exterior flush doors with SCL core, exterior non-rated stile & rail doors, and exterior bullet resistant doors.

**An exterior door is defined as one that cannot be controlled on both sides for temperature and humidity. Guidelines for maintaining this warranty on the aforementioned products are as follows:**

1 Doors must be hung in a protected opening which includes overhead protection that has a maximum of 4' between the top of the door and the bottom of the overhead, a minimum overhead protection of 4' from the face of the door and a minimum protection extension of 4' from each side of the door.

- 2 All machined surfaces, including openings and hardware cuts, must be double sealed with exterior sealer. No machining is allowed at the top of the door.
- 3 The top of an exterior door must be properly protected with flashing.
- 4 Lite cutouts must be properly protected with lip mouldings and exterior caulk to prevent moisture from seeping into the core.
- 5 Exterior finishes should be used on the exterior faces and all the edges of exterior doors. A complete and continuous finish must be maintained on all surfaces of the door and must be refinished annually.
- 6 Exterior doors are not warranted outside of the continental 48 states.
- 7 Exterior doors are not warranted for telegraphing and checking.
- 8 The edges of the doors must be solid lumber, veneer bands are not allowed.

**Note: Both WDMA and AWS Standards indicate that wood doors are not recommended for exterior use.**

# VT Installation & Maintenance

## Installation:

- 1 The utility or structural strength of the doors must not be impaired in fitting to the opening, in applying hardware or in preparing for lites, louvers or plant-ons or other detailing.
- 2 Use a minimum of one hinge for each 30" of door height on all solid core doors. **When using three or more hinges, they are to be equally spaced.**
- 3 Clearances are maximum 1/8" at top, at hinge and at lock stiles. Refer to NFPA 80, latest edition, for bottom clearances. All hardware locations, preparations for hardware, and methods of hardware attachment must be appropriate for the specific door construction. Templates for specific hardware preparation are available from hardware manufacturers, WDMA, or DHI.

## Special Hardware Applications:

**Metal End Caps:** Doors supplied with corner mortised flush bolts must be installed with metal end caps which are supplied with the doors to prevent flaring of the remaining portion of the door. If the doors with mortised flush bolts are ordered with metal edgeguards, the metal end caps are not required. In addition, doors with certain concealed vertical rods (CVR's) must also be installed with metal end caps. Consult manufacturer for applicable CVR devices.

## Field Fitting Doors:

For best results, doors should be ordered prefit and premachined from the factory. However, in instances where doors need to be field fit, please follow these guidelines:



**Non-Rated Doors:** A minimum 3/4" rail material should be left in the door after field trimming. Doors may be ordered with wider rails for adjustments on the jobsite. Seal any and all field-cut edges.

**Fire-Rated Doors:** These doors may be trimmed slightly, not to exceed 3/4", at the bottom rail. Most required machining must be performed by VT or a licensed machiner of VT fire-rated doors. Refer to NFPA 80, latest edition, for more specific information regarding jobsite preparation of fire-rated doors.

**Surface-Applied Hardware:** Special blocking is recommended for use with surface-applied hardware if through-bolts aren't utilized. In cases where no through-bolting is allowed, hardware should be installed with wood screws, and pilot holes must be drilled prior to installation. DO NOT use self-tapping or combination wood/metal screws.

## Door Tolerances:

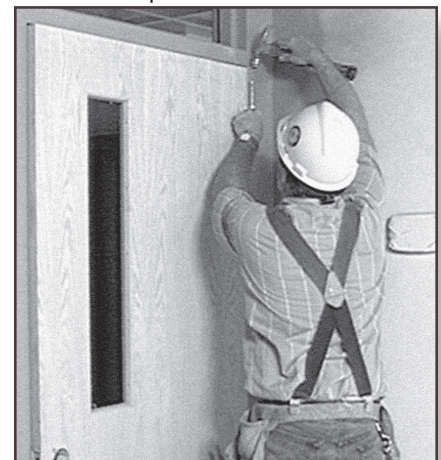
**Show-Through (Telegraphing):** Considered a defect when the face of the door varies from a true plane in

excess of 0.010" in any 3" span. Glossy laminates or finishes should be avoided because they tend to accentuate natural telegraphing.

**Warp:** Any distortion in the door itself; not measured in relation to the frame in which it is hung. Warp is measured by placing a straight edge or a taut string on the concave face and determining the maximum distance from straight edge or string to door face. For more information regarding door tolerances, refer to the VT Standard Door Warranty.

## General Maintenance:

- 1 Ensure that doors continue to swing freely, do not bind in the frame and that all hardware remains functional.
- 2 Using wedges to hold open doors may result in damage to the door face. More importantly, wedging fire doors open is a life safety issue and a code violation. Damage caused by the use of wedges is not covered under VT's warranty, and VT is not responsible for the illegal use of wedges or other items to hold open fire doors.



# Positively VT

## Positive Pressure Installation Instructions

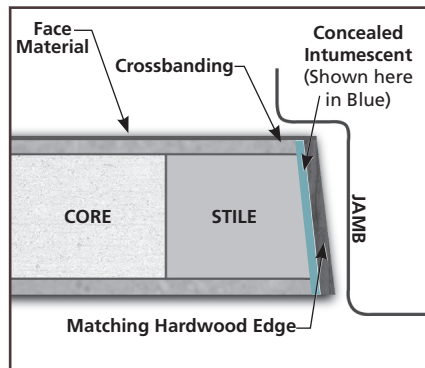
For Doors That Have Been Labeled in Compliance with UL 10C

VT positive pressure fire doors are constructed to meet Intertek/Warnock Hersey Category A guidelines, allowing doors to be hung without any surface-applied intumescent. Our positive pressure fire doors arrive ready-to-hang, just like all other VT doors. The VT label is your assurance for one-step installation.

- 1 In order to meet the smoke requirement,** a smoke seal, listed and labeled for UL 10C positive pressure installations, must be mounted around the perimeter of the frame.
- 2** Flat bar astragals (FBAs) will be allowed on pairs of fire doors.
- 3 Lite Kit** – [Where applicable] install a lite kit listed and labeled for UL 10C positive pressure applications to meet the appropriate fire rating. (See fire label located on door for fire rating.) Follow lite kit manufacturer's instructions for proper installation.
- 4 Frame** – Doors must be installed in fire-rated frames. Fire rated aluminum, hollow metal or wood frames may be used based on fire rating. Frames must be installed plumb, square and level.
- 5 Hardware** – Doors have been factory-prepared to receive hardware as indicated by the hardware supplier's schedule. Hardware may be required to be

listed and labeled in accordance with UL 10C for use in positive pressure fire-rated wood doors if located above 40" AFF. Anything below 40" AFF can follow existing standards.

- 6 Clearances** – The clearances between the door edge and frame must be no greater than 1/8". See NFPA 80, latest edition, for clearance under bottom of door.

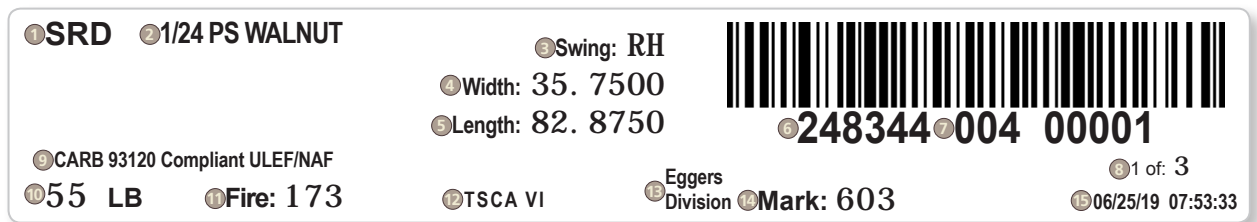


The VT label is your assurance that doors meet positive pressure requirements.

Construction and hardware approvals are continually updated.  
Call VT at 1-800-827-1615 for the most current information.

# Reading VT Eggers Collection Stile & Rail Door Labels

When referring to a Eggers Collection Stile & Rail door supplied by VT, it is best to look at the top rail of the door for a permanently affixed adhesive label, which will provide all necessary information for that particular door. In our ongoing effort to provide more complete information, some changes have been made to our door label as illustrated below.



1 = Product Type

2 = Species

3 = Swing

4 = Door Size Width

5 = Door Size Length

6 = Order Number

7 = Line Number

8 = Quantity on Line

9 = Environmental Attributes

10 = Weight

11 = Indicates the Door is Fire Rated  
Need to Look at Fire Label for  
Rating

12 = TSCA Title VI Compliant

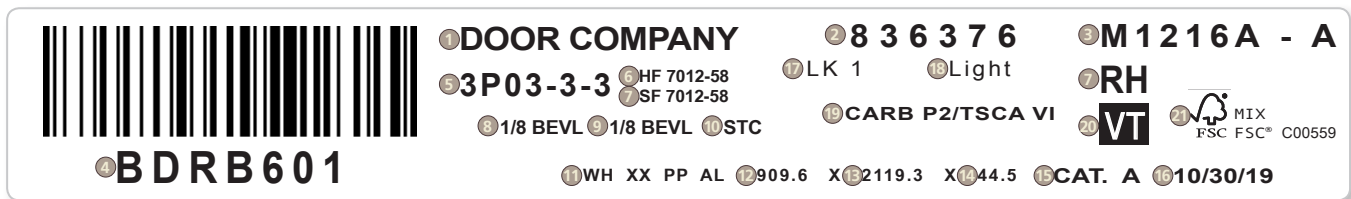
13 = Eggers Division Manufacturer

14 = Door Number

15 = Date & Time

# Reading VT Heritage Collection Flush Door Labels

When referring to a door supplied by VT, it is best to look at the top rail of the door for a permanently affixed adhesive label, which will provide all necessary information for that particular door. In our ongoing effort to provide more complete information, some changes have been made to our door label as illustrated below.



- |   |  |
|---|--|
| 1 = Customer Name   | = 90-minute. 'PP' indicates positive pressure; 'HM' or 'AL' (frame material on positive pressure doors.) |
| *2 = Shop Order Number  | 12 = Door Width in millimeters   |
| *3 = Door Number  | 13 = Door Height in millimeters  |
| *4 = Bar Code Serial Number   | 14 = Door Thickness in millimeters   |
| 5 = VT Door Type  | 15 = Indicates Category A compliance under UBC 7-2   |
| 6 = Face Material by color code (HF = hinge face; SF = stop face)   | 16 = Production Completion Date  |
| 7 = Swing of the door   | 17 = Hardware  |
| 8 = Bevel Code on the hinge stile   | 18 = Stain Tone  |
| 9 = Bevel Code on the lock stile  | 19 = CARB Compliant Phase 2 and TSCA Title VI Compliant  |
| 10 = STC Rating   | 20 = VT Industries: Door Manufacturer  |
| 11 = Fire Rating information. 'WH' = Warnock Hersey. Fire ratings indicated in Roman numerals, XX = 20-minute, VL = 45-minute, LX = 60-minute, and XC | 21 = FSC Label   |

\* When contacting the factory, refer to either Items 2 (shop order number) and 3 (door number) together; or Item 4 (bar code serial number).

VT DOOR IDENTIFICATION LABELS ARE TYPICALLY LOCATED ON THE TOP RAIL OF EACH DOOR AND SHOULD NOT BE REMOVED. THESE LABELS PROVIDE ALL INFORMATION ON HOW DOORS WERE CONSTRUCTED. WARRANTY IS VOID ON ANY DOORS THAT HAVE IDENTIFICATION LABELS REMOVED.

## Service:

VT's Customer Service Center is available to answer questions. You may contact the service representative named on your packing slip by calling 1-800-827-1615 or by faxing 1-712-368-4111.

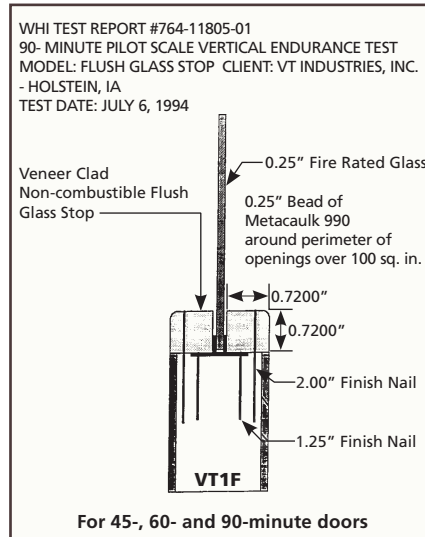
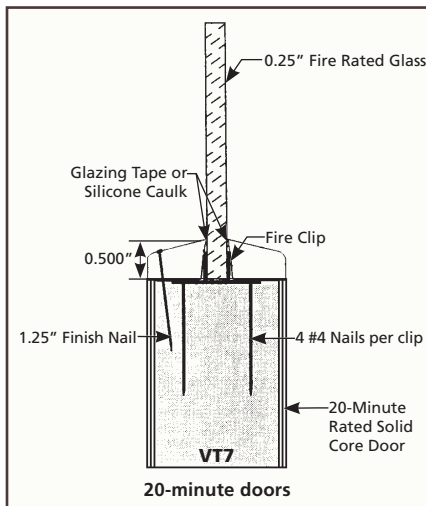
# Installing Heritage Collection Glazing & Edge Sets

## Installation Instructions for Fire-Rated Wood Glazing Kits:

**Glass Stops:** 3/8" minimum thickness, overlay, or flush moulding (beads).

All fire doors with lites manufactured with woodstops will require the use of fire clips.

**Glazing:** Install with fire clips, length and width of glass to be 1/4" less than opening. Glass to be of approved, fire-rated, 1/4" glass. Clips must be installed a maximum of 12" apart and be within 6" of the corners. Openings of 6" or less will require only one clip to be installed in the center of the opening. Mouldings or wood beads to be sealed with glazing tape or silicone caulk.



\*NOTE: Wood beads for use on VT's 5-ply wood veneer mineral core doors (45-, 60- and 90-minute) are made of an incombustible material, veneer wrapped to match the wood veneer door face. Not for use on HPDL doors.

**Clip Installation:** Install base of clip around perimeter of opening at approved intervals with 18-gauge staples or 4d nails. A recess has been cut into doors for placement of fire clips with flush wood beads at the factory. Install glass in the opening and—using a putty knife—slide in the T-shaped half of clip so that it holds the glass firmly and locks into the other half of the fire clip. Secure second side to frame with 4d nails. Apply 1/16" glazing tape, latex, or silicone caulk to the edge of the wood moulding (bead) and install the moulding with 4d finishing nails a maximum of 2" from each end and a maximum of 12" between nails.

## Installation Instructions for Non-Rated Wood Glazing Stops:

Flush wood beads for non-rated doors will be affixed on one side and lightly tacked into place on the other side of lite cutouts. The only difference when working with non-rated doors is that the use of fire clips is not required.

## Installation Instructions For Metal Vision Panels:

Metal vision panels are only installed at the factory when factory-installed glazing is specified. Follow manufacturer's instructions to install vision panels on the jobsite.

## Astragals and Edge Sets (Channels):

The use of metal astragals or channels on fire-rated doors is determined by local codes, door construction, door size, and hardware. Please refer to the specific requirements for your project to determine whether doors should receive astragals or channels. Astragals and channels will not be installed at the factory. All accessories (vision panels, astragals, etc.) are warranted for one year from date of original shipment.



# Installing Eggers Collection Glazing & Edge Sets

## Glazing Instructions:

### 20-Minute Full-Lite with Pyroswiss-20 Glazing and Wood Beads

- 1 20-minute doors are supplied with the lite cutout pre-machined by Eggers Division. The wood glazing beads will be mitered to fit; they will be affixed on one side and lightly tacked on the other side of the lite cutout.
- 2 Carefully remove the lightly tacked wood bead from the lite opening.
- 3 Lay the door flat, taking care to protect the surface from marring.
- 4 Position the door so that the bead is at the bottom of the cut-out.
- 5 Position two 1/8" x 1/4" x 3" setting blocks (supplied with the glazing) at quarter points on the bottom of the lite opening (Fig 1)
- 6 Lay the glazing into the opening. It should be located against the setting blocks, leaving a gap between the glazing and cut-out of 1/8" at all four edges.



(Fig 1)

- 7 Position the remaining wood bead in the cut-out. The down-set of the beads will vary from door to door due to "tolerance stacking" of the door, wood bead and glazing dimensions. If the bead is not flush with the door face, a layer of appropriate thickness glazing tape or a bead of 100% silicon caulk should be used between the back of the bead and the glazing.

- 8 Secure the bead using nails supplied by the glazer, at least 1 3/16" in length and 18 gauge in diameter. Nails should be located within 3" of the corners and no more than 6" between adjacent nails. Pre-drill holes in the wood bead as required to prevent splitting. (Fig 2)



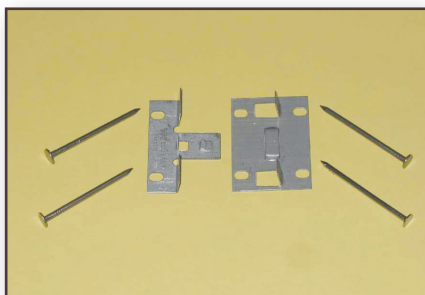
(Fig 2)

- 9 Complete the installation by filling the nail holes with putty and sanding smooth.

## Glazing Instructions:

### 45-90 Minute Lites with Filmed or Laminated Ceramic Glazing and Veneer-Wrapped Beads

- 1 These doors are supplied with the lite cutout pre-machined by Eggers Industries. The perimeter of the cutout is machined with recessed



(Fig 1)

pockets for 2-part metal glazing clips. The glazing clips and their nails (Fig 1), together with the bead nails, will be sent loose as an accessory kit. The veneer-wrapped glazing bead (Fig 2) will be mitered supplied loose.

- 2 Carefully remove the veneer wrapped bead from the lite opening. The glazing clip pockets are roughly centered within the door thickness.



(Fig 2)

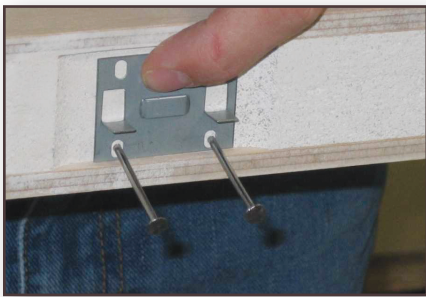
- 3 Lay the door flat, taking care to protect the surface from marring.

# Installing Eggers Collection Glazing & Edge Sets

## Glazing Instructions:

### 45-90 Minute Lites with Filmed or Laminated Ceramic Glazing and Veneer-Wrapped Beads

**4** Position the rectangular half of the glazing clip, with the tabs down, being sure it is centered within the door thickness. Secure it using two of the 1-9/16" long 4d nails inserted through the holes below the tabs (Fig 3). Where nails are hand driven into blocking, pre-drilling with a 5/64" bit is required. Caution: These clips are directional; insure correct positioning of the clips before beginning to nail them into place. Note: Clips are required in all of the machined pockets.



(Fig 3)

**5** After installing the rectangular half of all of the clips in all of the pockets, position the glazing in the opening, resting it against the clip tabs (Fig 4).



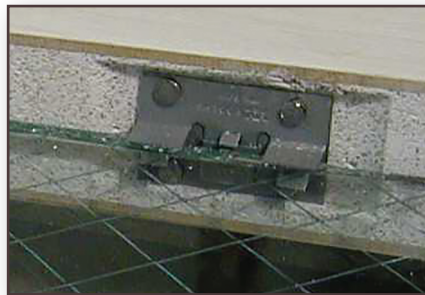
(Fig 4)

**6** Install the second part of the clips by inserting the "tongue" into the raised slot until the locking tab engages (Fig 5).

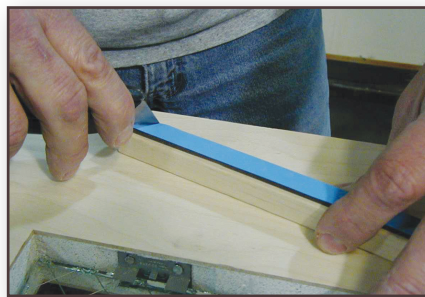


(Fig 5)

**7** Secure the second part of the clip to the cutout using two additional 1-9/16" nails. These nails should extend through the overlapping holes in both halves of the clips (Fig 6). Attach double sided glazing tape to the back of the veneer wrapped bead, trimming it to match the mitered corners (Fig 7).



(Fig 6)



(Fig 7)

**8** Position the veneer wrapped bead in the cutout. The recess (set-down) of the beads will vary from door to door due to "tolerance stacking" of

the door, veneer wrapped bead and glazing dimensions. If the bead is not flush with the door face, a layer of appropriate thickness glazing tape or a bead of 100% silicon caulk should be used between the back of the bead and the glazing

**9** After satisfactorily positioning the glazing bead in the opening, secure it using one 16-gauge trim nail (or equivalent) centered between adjacent clips and at each end of the bead (Fig 8). Note: For hand nailing, use 2" long 6d finish nails and pre-drill the bead and any blocking the nails will engage using a 5/64" bit is required.



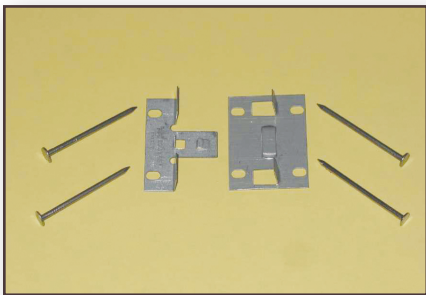
(Fig 8)

**10** Flip the door over and repeat steps 8, 9 and 10.

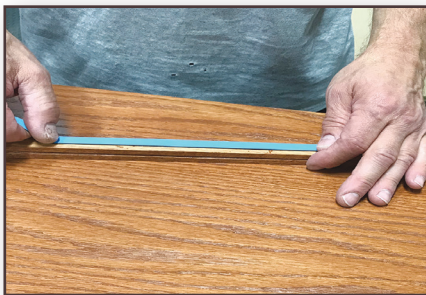
**11** Putty and sand all nail holes before finishing.

## Glazing Instructions: 45-Minute, including Full-Lite, with Filmed or Laminated Ceramic Glazing and Wood Beads

- 1** 45-Minute full-lite doors are supplied with the lite cutout pre-machined by Eggers Industries. The perimeter of the cutout is machined with recessed pockets for 2-part metal glazing clips. The glazing clips and their nails (Fig 1), together with the bead nails, will be sent loose as an accessory kit. The wood glazing bead will be mitered and supplied loose, with the required glazing tape applied (Fig 2).



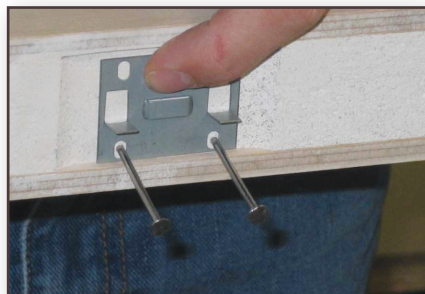
(Fig 1)



(Fig 2)

- 2** Carefully remove the wood bead from the lite opening. The glazing clip pockets are roughly centered within the door thickness.
- 3** Lay the door flat, taking care to protect the surface from marring.
- 4** Position the rectangular half of the glazing clip with the tabs down, being sure it is centered within the door thickness. Secure it using two of the 1-9/16" long 4d nails inserted

through the holes below the tabs (Fig 3) Where nails are hand driven into blocking, pre-drilling with a 5/64" bit is required. Caution: These clips are directional; insure correct positioning of the clips before nailing them into place. Note: Clips are required in all of the machined pockets.



(Fig 3)

- 5** After installing the rectangular half of all of the clips in all of the pockets, position the glazing in the opening, resting it against the clip tabs (Fig 4).



(Fig 4)

- 6** Install the second part of the clips by inserting the "tongue" into the raised slot until the locking tab engages (Fig 5).
- 7** Secure the second part of the clip to the cutout using two additional 1-9/16" nails. These nails should extend through the overlapping holes in both halves of the clips (Fig 6).



(Fig 5)



(Fig 6)

- 8** Apply a bead of 100% silicone caulk around the perimeter of the glazing (Fig 7).



(Fig 7)

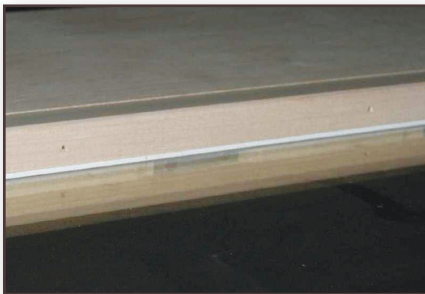
- 9** Position the wood bead in the cutout. The recess (set-down) of the beads will vary from door to door due to "tolerance stacking" of the door, veneer wrapped bead and glazing dimensions. If the bead is not flush with the door face an additional layer of 100% silicon caulk can be added between the bead and the glazing.

# Installing Eggers Collection Glazing & Edge Sets

## Glazing Instructions:

45-Minute, including Full-Lite, with Filmed or Laminated Ceramic Glazing and Wood Beads

- 10** After satisfactorily positioning the glazing bead in the opening, secure it using one two-inch nail (6d finish supplied or 16-gauge trim) centered between adjacent clips and at each end of the bead (Fig 8). Where nails are hand driven into blocking, pre-drilling with a 5/64" bit is required. Note: For hand nailing, pre-drilling the bead and any blocking material the nails will engage using a 5/64" bit is required.



(Fig 8)

- 11** Flip the door over and repeat steps 8, 9 and 10.

## Installation Instructions for Non-Rated Wood Glazing Stops:

Flush wood beads for non-rated doors will be affixed on one side and lightly tacked into place on the other side of lite cutouts. The only difference when working with non-rated doors is that the use of fire clips is not required.

## Installation Instructions For Metal Vision Panels:

Metal vision panels are only installed at the factory when factory-installed glazing is specified. Follow manufacturer's instructions to install vision panels on the jobsite.

## Astragals and Edge Sets (Channels):

The use of metal astragals or channels on fire-rated doors is determined by local codes, door construction, door size, and hardware. Please refer to the specific requirements for your project to determine whether doors should receive astragals or channels. Astragals and channels will not be installed at the factory. All accessories (vision panels, astragals, etc.) are warranted for one year from date of original shipment.

# Wood Jamb Care, Handling, and Maintenance

The information included in this guideline is presented to help maintain your high quality wood frames.

## STORAGE AND HANDLING:

- 1 Store wood jambs flat on a level surface in a dry, well-ventilated building. Wood jambs should be kept at least 4 in. (102 mm) off the floor and should have protective coverings under the bottom and over the top. Covering should protect wood jambs from dirt, water, and abuse but allow for air circulation under and around the stack.
- 2 Avoid exposure of wood jambs to direct sunlight. Certain species (e.g., cherry, mahogany, walnut, and teak) are more susceptible to discoloration if exposed to sunlight or some forms of artificial light.
- 3 Do not subject interior wood jambs to extremes of heat and/or humidity. Do not allow wood jambs to come in contact with water. Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55% RH and 50°F-90°F (10°C to 32°C)).
- 4 Do not install wood jambs in buildings that have wet plaster or cement. Do not store wood jambs in buildings with excessive moisture content – HVAC systems should be operating and balanced.
- 5 Wood jambs should always be handled with clean dry hands or while wearing clean dry gloves.

- 6 Wood jambs should be lifted and carried when being moved, not dragged across one another.

## FINISHING:

**VT Industries recommends factory finishing to insure the most durable surface and uniform appearance. Factory finishing will also slow the response to changes in humidity. The following points provide guidance for wood jambs being field finished.**

- 1 Wood is hygroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control, all surfaces must be finished equally.
- 2 Wood jambs should not be considered ready for finishing when initially received. Before finishing, remove all handling marks, raised grain, scuffs, burnishes and other undesirable blemishes by block sanding all surfaces in a horizontal position with 150 or 180-grit sandpaper. Sanding of the overall surface will be required to open the veneer grain to receive a field applied finish evenly. To avoid cross grain scratches, sand with the grain.
- 3 Certain species of wood, particularly oak, may contain extractives which react unfavorably with foreign materials in the finishing system. Do not use steel wool on bare wood, rusty containers or any other contaminate in the finishing system.

- 4 A thinned coat of sanding sealer should be applied prior to staining to promote a uniform appearance and avoid sharp contrasts in color or a blotchy appearance. VT Industries will not be responsible for the final appearance of field-finished wood jambs. It is expected that the painting contractor will make adjustments as needed to achieve desired results.

- 5 The back and ends of the wood jamb components must be sealed prior to installation. All exposed, unfinished wood surfaces should be finished. Cutouts for hardware in exterior wood jambs and wood jambs located adjacent to areas where high moisture is expected should be sealed prior to installation of hardware.

- 6 Dark colored finishes should be avoided on all surfaces if the wood jamb is exposed to direct sunlight, in order to reduce the chance of warping or veneer checking.

- 7 Water-based coatings on unfinished wood may cause veneer splits, highlighted joints and raised wood grain. If used on exterior wood jambs, the coating should be an exterior grade product. When installed in exterior applications, wood jambs must be properly sealed and adequately protected from the elements. Refer to VT Industries warranty for protection requirements.

# Wood Jamb Care, Handling, and Maintenance

- 8 Be sure the wood jambs surface being finished is satisfactory in both smoothness and color after each coat. Allow adequate drying time between coats. Desired results are best achieved by following the finish manufacturer's recommendations.

## INSTALLATION:

- 1 VT Industries recommends factory machining of all wood jambs to insure proper machining tolerances. All labeled wood jambs are required to be machined under licensed inspection service by NFPA 80.
- 2 The utility or structural strength of the wood jambs must not be impaired when fitting to the opening or applying hardware.
- 3 The general rule is to use two hinges for solid core doors up to 60 in. (1524 mm) in height, and an additional hinge for every 30 in. (762 mm) or fraction thereof. This matches the requirements for installing fire doors. Refer to VT Industries warranty and approvals for special provisions. Consult hinge or pivot hardware manufacturer with regard to weight and size of hinges or pivots required.
- 4 The maximum clearance between the top, hinge edge and lock edge to the frame and meeting edge of pairs of doors, is 1/8 in. (3.2 mm). NFPA 80 allows a tolerance of +0 and -1/16" to this dimension.

- 5 All hardware locations, preparations and methods of attachment must be appropriate for the specific door construction.
- 6 Pilot holes must be drilled for all screws that act as hardware attachments. Full threaded screws should be used for fastening hardware to non-rated wood jambs and are required on fire-rated wood jambs. VT Industries does not warrant the use of self-tapping or combination (wood/metal) screws for the attachment of hardware.
- 7 Doors and door wood jambs should be installed plumb, square and level.

## CLEANING AND TOUCHUP:

- 1 Inspect all wood jambs prior to hanging them on the job. Repair noticeable marks or defects that may have resulted from improper storage and handling.
- 2 Field repairs and touchups are the responsibility of the installing contractor upon completion of initial installation. Field touchup shall include the filling of exposed nail or screw holes, re-finishing of raw surfaces resulting from job fitting, repair of job inflicted scratches and mars and final cleaning of finished surfaces.

- 3 When cleaning wood jamb surfaces, use a non-abrasive commercial cleaner designed for cleaning wood door or paneling surfaces, that does not leave a film residue that would build up or affect the surface gloss of the wood jamb finish.

## GENERAL ADJUSTMENT AND MAINTENANCE:

- 1 Insure that all doors swing freely and do not bind in their frame. Adjust the finish hardware for proper alignment, smooth operation and proper latching without unnecessary force or excessive clearance.
- 2 Periodically inspect all doors and wood jambs for wear, damage and natural deterioration.
- 3 Periodically inspect and adjust all hardware to insure that it continues to function as it was originally intended.
- 4 Finishes on exterior wood jambs may deteriorate due to exposure to the environment. See VT Industries warranty for refinishing requirements.

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