



INSTALLATION INSTRUCTIONS - CONTENTS -

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Stile and Rail Doors,
Door Frames, Plywood
Veneered Components

Two Rivers Division
One Eggers Drive
Two Rivers, WI 54241
Phone: 920.793.1351
Fax: 920.793.2958

Flush Doors

Neenah Division
164 North Lake Street
Neenah, WI 54956
Phone: 920.722.6444
Fax: 920.722.0357

Architectural Veneer Faces,
Custom Wood Products,
Plywood

Kentucky Division
2125 Lake Jericho Road
Smithfield, KY 40068
Phone: 502.845.0154
Fax: 502.849.0444

Fire Door Installation Instructions

Installation Instruction 108



Eggers Industries

Date: March, 2013

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

Retain these instructions. They will be required by the local code official or authority having jurisdiction (AHJ) to determine if the wood fire doors have been properly installed.

These instructions are required for the installation of fire doors that fall under the jurisdiction of building codes, including the International Building Code (IBC), which requires side hinged fire doors to meet positive pressure test methods.

These instructions cover the two parts of positive pressure testing, (1) fire resistance and (2) smoke control. All doors required to meet positive pressure must meet the specified fire resistance. The application and code determine if smoke control is also required. A brief description of each part, and the typical method of addressing it, are given below.

Part 1 – Fire Resistance:

Fire resistance requires the doors to pass the criteria of the positive pressure fire test method such as UL 10C or NFPA 252 (where the neutral plane is located at 40" above the sill). Doors that meet the fire resistance are designated as either Category A or Category B as described below. As seen in the descriptions, this designation indicates job-site actions required during the door installation.

CATEGORY "A": The door does not require any additional edge sealing system to meet fire resistance. This designation indicates the door has been specially manufactured to meet fire resistance, or has had the required edge sealing systems pre-installed in the door by the door labeler.

CATEGORY "B": The door requires additional edge sealing to meet fire resistance. This designation indicates the door will not meet fire resistance without the field application of an edge sealing material. This may involve an intumescent material, gasketing material, or combination of both.

Part 2 – Smoke Control:

Smoke control requires the doors to meet the air leakage criteria of UL 1784 or NFPA 105. This requirement is typically met by field application of a listed Category H gasketing material, indicating it has been evaluated for positive pressure. In some applications specific gasketing material may provide both the fire resistant edge seal and smoke control. The systems detailed in the following instructions are the systems provided with the doors if supplied by Eggers Industries.



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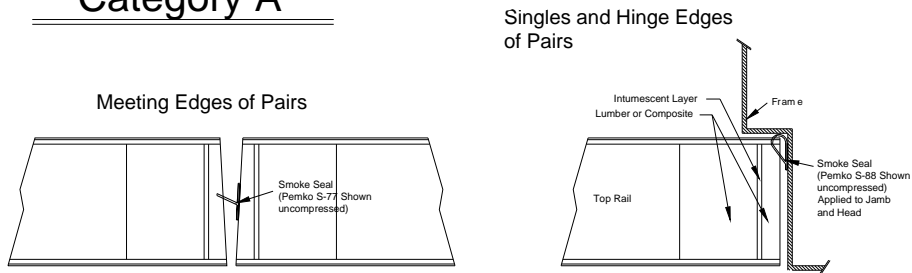
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Kentucky Division
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Smithfield, KY 40068
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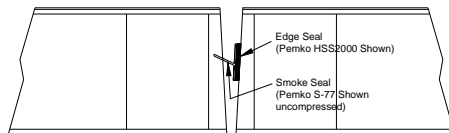
**POSITIVE PRESSURE INSTALLATION INSTRUCTIONS
20 MINUTE APPLICATIONS**

Category A

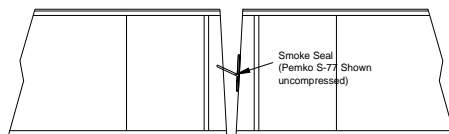


The smoke seal can be left out if smoke control ("S") is not required for Category A constructions.

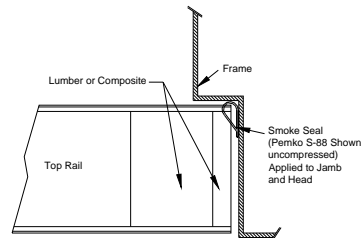
Meeting Edges of Pairs
(Category B)



Meeting Edges of Pairs
(Category A)



Category B



Singles and Hinge Edges
of Pairs

The meeting edge gasketing can be left out if smoke control ("S") is not required. The frame gasketing is always required for Category B constructions.

Fire Door Installation Instructions

Installation Instruction 108



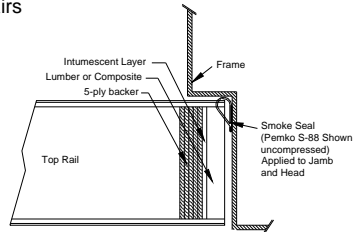
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS 45 -90 MINUTE APPLICATIONS

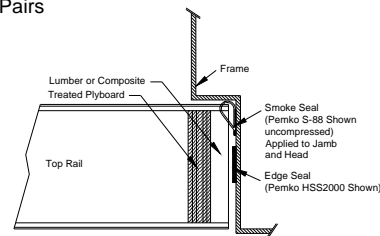
Category A

Singles and Hinge Edges
of Pairs



Category B

Singles and Hinge Edges
of Pairs

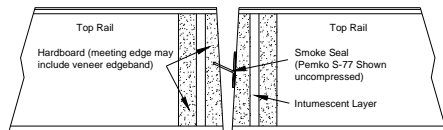


The smoke seal can be left out if smoke control ("S") is not required.

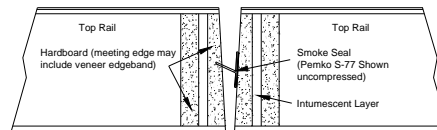
Category A

Meeting
Edges of
Pairs

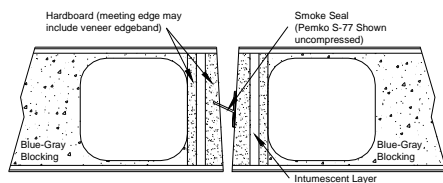
Category B



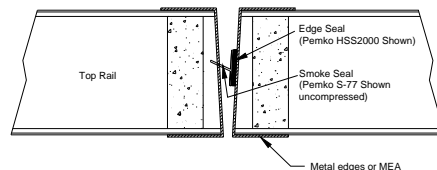
Full or partial height metal edges optional over the edges without additional intumescent



Full or partial height metal edges optional over the edges without additional intumescent



CVR applications (latch machining will vary)



The meeting edge gasketing can be left out if smoke control ("S") is not required.



**Eggers
Industries**
www.eggiersindustries.com
sales@eggiersindustries.com

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Plywood

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Smithfield, KY 40068
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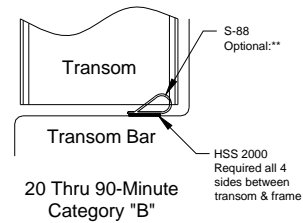
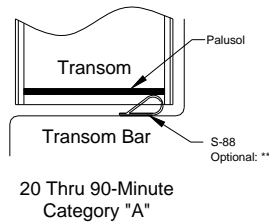
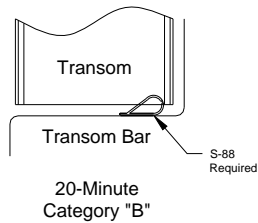


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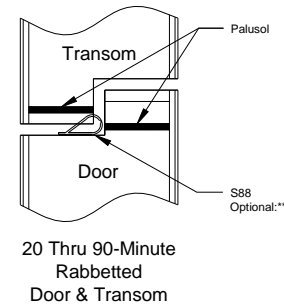
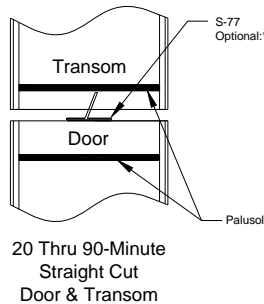
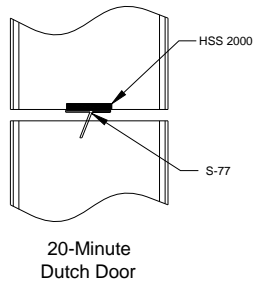
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS DOOR/TRANSOM COMBINATIONS AND DUTCH DOORS

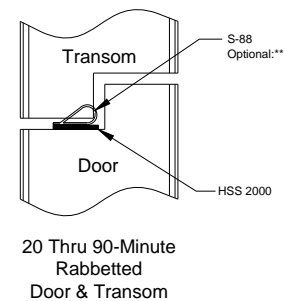
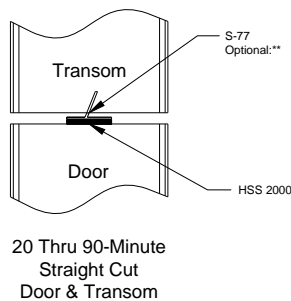
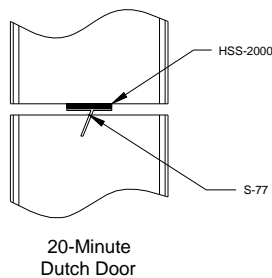
STRAIGHT CUT WITH HORIZONTAL TRANSOM BAR



Category "A"



Category "B"



** Smoke seal is required by code for "S" label.



**Eggers
Industries**

www.eggersondustries.com
sales@eggersondustries.com

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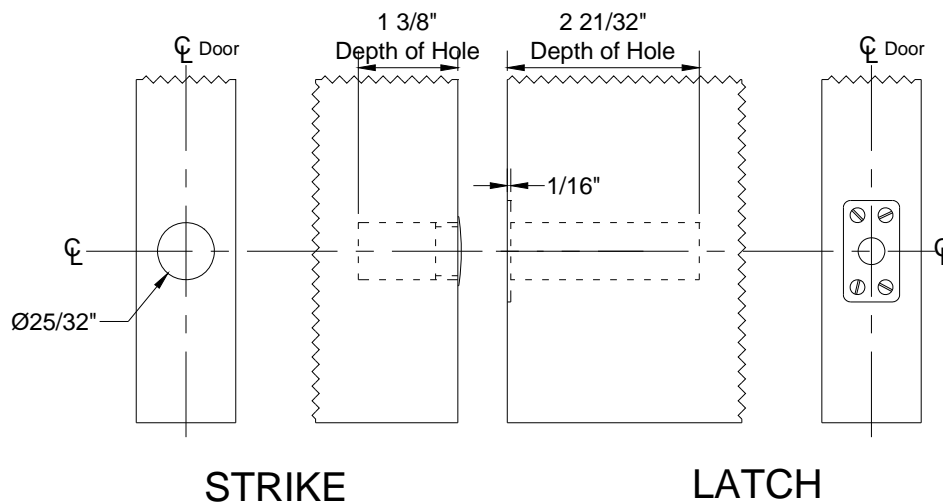
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POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

AUXILIARY FIRE LATCH



Several options are approved in our fire door procedures allowing auxiliary fire latches to be used in place of, or in addition to, bottom latching flush bolts, surface vertical rods, or concealed vertical rods. Where approved the fire door will be machined for the required fire latches.

The required latches are shipped in an accessory pack along with the doors, and must be installed to insure the fire protection rating. When the fire latches are required between the meeting stiles of pair doors the latch will be pre-machined in one door and the strike in the other door. Where the latch is required between the rail and floor, rail and frame header, or stile and frame jamb a corresponding strike must be machined in that surface opposite the fire latch. The strike hole should be covered with the plastic cap provided. Alternately, a dust proof strike of equal diameter may be used.

Fire Door Installation Instructions

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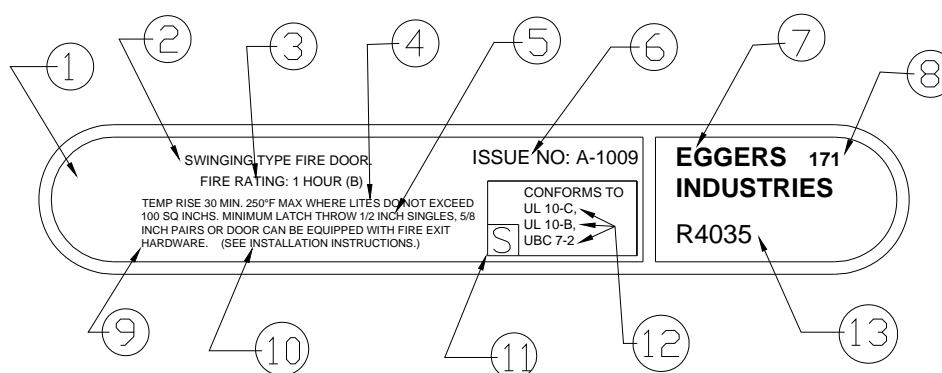
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Note: Some hardware is furnished with its own auxiliary fire latches, and recommended fire latch locations. Where those locations or latch sizes vary from the door machining, the door machining takes precedence, and the hardware supplied with the door is to be used.

POSITIVE PRESSURE INSTALLATION INSTRUCTIONS

INFORMATION FOUND ON AN UNDERWRITERS LABORATORY LABEL



1. UL CLASSIFIED MARKING - Authorized mark verifying approval of label content
2. UL CATEGORY - Indicates product type
3. UL FIRE RATING - Hourly approval
4. TEMPERATURE RISE RATING - indicates the maximum temperature of the door face
5. MINIMUM LATCH THROW REQUIRED ON LOCK/LATCH.
6. MANUFACTURERS PERMANENT ISSUE NUMBER - This UL issued number indicates the label category. It replaces the earlier design using sequential numbering.
7. MANUFACTURERS NAME.
8. MANUFACTURERS PART NUMBER.
9. STATES IF THE DOOR IS ELIGIBLE FOR FIRE EXIT HARDWARE.
10. REFERENCE TO INSTALLATION INSTRUCTIONS - Per code requirement, a packet of instructions are shipped with each fire door order. these are to aid the installer and are to be retained for the Authority Having Jurisdiction (AHJ) to use in determining code compliance.
11. "S" MARK - Indicates the opening will meet smoke control requirements when gasketed per the installation instructions.
12. CONFORMANCE - Identifies the standard test methods the door has been evaluated to.
13. UL FILE NUMBER - The UL file established to document manufacturing approvals.

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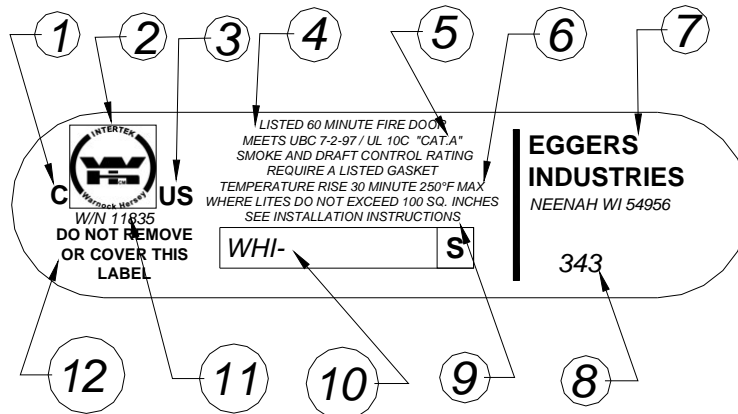
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INFORMATION FOUND ON A WARNOCK HERSEY LABEL



1. Country identifier "C" for Canada and Hose Stream.
2. Warnock Hersey Certification Mark.
3. Country identifier "US" for United States.
4. LISTED, Fire Rating & Category "FIRE DOOR".
5. Positive Pressure & Smoke and Draft Control.
6. Limitation if a Temperature Rise door is required.
7. Listee's name and location.
8. Manufactures part number.
9. Due to changes in fire codes a set of Installation Instructions are sent with each order of fire doors. These instructions are to aid the authority having jurisdiction (AHJ) in determining if the opening is in code compliance.
10. Serial Number.
11. Intertek part number.
12. DO NOT REMOVE OR COVER THIS LABEL.



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