

Fire-rated doors are certified according to independent standards as indicated on the permanent fire certification label affixed to each door. To maintain the validity of this certification, the door installer must follow all of the standard installation instructions as well as comply with the following requirements.

Edge Seals and Gaskets

Building codes adopted in local areas may require the application of additional edge seals and/or gaskets. The following chart is provided for your convenience; consult your local building code official (or authority having jurisdiction) for applicable building codes and regulations.

	Steel Fire Door (wood edged) 20-min rated	Steel Fire Door (steel edged) 20/90-min rated	Other Fire Doors (flush, stile & rail, Tria, molded and fiberglass doors) 20/45/60/90-min rated
UL 10 (b) - Neutral Pressure Doors	No edge seal or gasket is required for doors with fire label code "D2ON-BS." Category H gasket is required for doors with fire label code "D2ONH-BS."	Category H gasket is required. No edge seal is required.	Category H gasket is required for exterior doors. No edge seal or gasket is required for interior doors.
UL 10 (c) - Positive Pressure Doors	N/A	(a) Category G edge seal must be installed on the door edge or frame and Category H gasket must be installed on the frame per manufacturer's installation instructions, or (b) Gasket which is eligible for both Category G and H can be installed in lieu of (a) above, or (c) Pemko S88 or S52 can be installed in lieu of (a).	Category G edge seal must be installed on the door edge or frame per the manufacturer's installation instructions. Category H gasket is required for exterior doors.
UBC 7-2 (97) Part 2 - Smoke and Draft Control Doors	N/A	Category H gasket is required.	In addition to Category G edge seal, Category H gasket must be installed on the frame per manufacturer's installation instructions.
CAN/ULC S104 (Canada)	Category H gasket is required. No edge seal is required.		

Vision Panel

Vision panels (up to 100 square inches) are permitted in all fire doors (except wood-edged steel doors) using a listed and labeled light kit. To ensure a proper gasket seal, vision panels must be installed to lie on a flat surface of the door; **DO NOT** cut across profiles when positioning a light kit. The rating of the light kit, in minutes, must coincide with the rating of the fire door. Light kits must be installed per the manufacturer's installation instructions.

Frame

The door slab must be installed in a fire-rated frame to match installed door and must be labeled with a fire tag. The frame must have a minimum fire-rating equivalent to the rating of the door. Frames must be installed plumb, square and level. Follow the frame manufacturer's installation instructions.

Clearances

Clearances between the steel door edge and the frame must be at least 1/16 inch and no greater than 3/16 inch at the header and jambs. Other fire door clearances must be at least 1/16 inch and no greater than 1/8 inch. Trimming is not allowed in the field unless allowed by NFPA 80 standard.

Latch

Fire-rated latch sets that fit the latch cut-out per hardware template are required. Follow the latch manufacturer's installation instructions.

Closer

Listed surface-mounted door closer may be installed using through bolts. A Backer plate is recommended. If wood screws are the desired fastener, appropriate blocking must be manufactured in the door construction. Follow the closer manufacturer's installation instructions.

General

Frame, hinges, passage sets, and hardware must be fire rated and installed in accordance with the manufacturer's installation instructions and NFPA 80 standard. Surface-mounted hardware must be attached with through bolts unless inner blocking is provided.

20-MINUTE FIRE DOOR REQUIREMENTS

Weatherproofing of the rough opening, along with the flashing and proper integration of the fenestration product with the water-resistant barrier, is the responsibility of the installer. JELD-WEN recommends strict adherence to the current version of ASTM E2112.

Opening

- Opening for door frame is to be prepared with nominal 2 x 4 buck up both jambs and across header. A wood stud partition requires double studs and header for backing the frame.
- Maximum 1/8" clearance between the frame and door slab is allowed.
- Maximum spacing between door jambs and opening framing (header and jack studs) shall be 1/2" or less.

Hardware

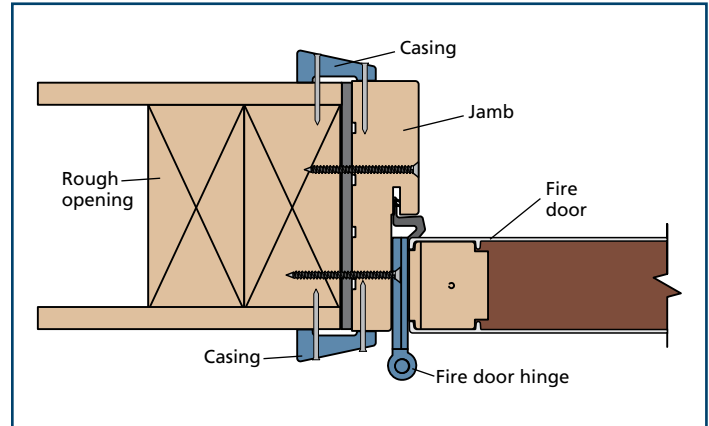
- Minimum 20-minute rated lockset, minimum 1/2" throw.
- Steel butt hinges, 4" x 4" x 0.097" (up to 3' 0" x 7' 0" opening), or follow NFPA 80.

Fastening Instructions

- Side jamb is to be securely fastened to head jamb.
- Jambs to be fastened with 2 1/2" fasteners (8d or 12 gauge finish nail), in pairs 16" on centers to stud and header.
- Hinges are to be fastened through jamb into stud with screws provided by hinge manufacturer. Two screws in each hinge, to be minimum of 2" long, must penetrate through the hinge jamb and into the stud by 3/4" minimum. The remaining hinge screws will be used to mount hinge to the side jamb.
- Latch strike plate is to be attached to jamb with two 2" long screws penetrating through the latch jamb into the stud.

- Shims are required at each hinge elevation on both jambs 16" on center at header. Where gaps of 1/4" to 1/2" are present, fill gap with fiberglass insulation packing. No gaps over 1/2" allowed.
- Casing nailed to stud and door jambs with 6d (13 gauge) finish nails 16" on center and within 4" of each end of the casing.

Horizontal Section View



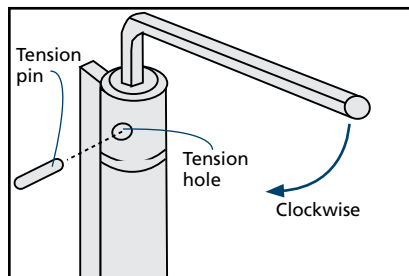
General

- All installations must be according to NFPA 80 and this installation instruction.
- If gasketing/edge seal is not provided by the manufacturer and local codes require that a labeled gasket/edge seal system be used, a listed fire rated gasket/edge seal must be installed. Gasket/edge seal must be listed for use with a wood frame and type of door being installed.

FIRE RATED HINGES

Automatically closing hinges are required on fire doors and when allowed to close by themselves from 18", should close and latch securely. If it does not, adjust the spring as follows:

1. With the door closed, insert the provided hex wrench so that it can be rotated clockwise. Hold in place and remove tension pin with a small punch or magnet.



2. Rotate hex wrench clockwise 1/4 turn and re-insert the tension pin loosely into the tension hole.
3. Remove hex wrench and try closing force.
4. Repeat steps until closing force is adequate but **DO NOT** rotate past 3 holes on 180° openings or 4 holes on 90° openings.

WARNING

DO NOT remove or paint over any fire labels.

Please visit jeld-wen.com for warranty and care and maintenance information.

Thank you for choosing

JELD-WEN