

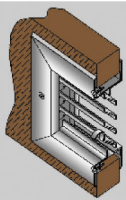
Suggested Procedure for the Selection of Swinging Fire Doors and Frames:

- A. Determine the appropriate building code.
- B. Check and fulfill the fire insurance company's requirements for the specific building.
- C. For basic fire door requirements—Use this check list.
 1. A fire door must have a label attached.
 2. A fire door frame must have either an attached or an embossed label.
 3. A fire door must be self-latching.
 4. A fire door must be self-closing.
 5. If a fire door is held open, it must be equipped with a listed heat responsive device, fusible link or a smoke detection device.
 6. A fire door must be free of any obstructions which could prevent the door from operating properly, i.e., wedge door stops, chains, etc.
 7. Only listed fire door hardware should be used.
 8. A fire door must have steel ball bearing-type hinges.
 9. Doors swinging in pairs that require astragals shall have at least one overlapping astragal. Pair of doors within a means of egress shall not be equipped with an astragal that inhibits the free use of either leaf. A coordinator should be used to ensure proper closing.
 10. Fire doors with glass lights: Please view (Table 3) on page 11

Louvers can be installed on fire rated doors but they have to be **fusible link** (see Illustration below). This means that once the heat from the fire reaches a certain temperature (usually 105 degrees), the fusible link will melt which causes the louver blades to close. This will help prevent the spread of fire. The maximum size for these louvers is 24" x 24".

There is no glass allowed in a fire rated door if it has a louver and no louvers at all can be installed in a 3 hour rated door.

Stairwell doors have to be fire rated but they will also have to be rated as Temperature Rise type. This means that the temperature on the stairwell side of the door can't get over a certain amount during the first 30 minutes of a fire.



Fusible Link Louver
 (Fire Rated with U.L. label) Fire rated 45- 90
 min., max. size 24" x 24"
Our Fusible Link Louver Part # Is 1900-A1

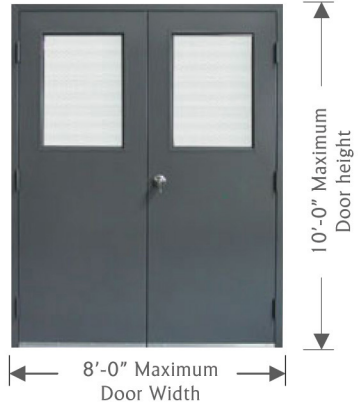
FIRE DOOR REQUIREMENTS



- ▶ Ball Bearing hinges 4-1/2" & 5" standard or heavyweight.
- ▶ Continuous hinges
- ▶ GOV. 161 cylinder lock 2-3/8", 2-3/4" or 5" backset.
- ▶ GOV. 86 mortise lock.
- ▶ Rim panic devices.
- ▶ Mortise panic devices.
- ▶ Surface closer
- ▶ Smoke Seal

In addition to the list above:

- ▶ Surface/Concealed exit devices
- ▶ Surface closers on both leaves *
- ▶ Automatic Flush Bolts *
- ▶ Astragal
- ▶ Coordinator



* *If acceptable with the authority having jurisdiction.* A closer may not be required on the inactive leaf of a pair if it is being used as an entrance to a Mechanical Equipment Room. Manual flush bolts may be used in this situation as well – however the inactive leaf should have no lever or visible hardware.

Table 1 - Fire door openings

Wall Rating	Door and Frame Rating	Description and Use
4 Hour	3 Hour (180 minutes)	These openings are in walls that separate buildings or divide a single building into designated areas.
2 Hour	1 1/2 Hour (90 Minute)	Openings of this type are used in enclosures of vertical communication or egress through bldgs., i.e., stairwells & elevator shafts. These openings are also in exterior walls and have the potential for severe fire exposure from outside the building.
1 Hour	1 Hour (60 minute)	These types of openings divide occupancies in a building.
1 Hour	3/4" Hour (45 minute)	This opening is in an exterior wall that has the potential to be exposed to moderate to light fire from the exterior of the building.
1 Hour	1/3 Hour (20 minutes)	These openings are in corridors where smoke and draft control is required. The minimum wall rating is 1 hour.