

# JR Metal Frames - Fire Rating Door Chart

| Door Construction                               | UL- 10C<br>Maximum Size for<br>3 hour Rating | UL- 10 B<br>Maximum Size for<br>a 90 minute rating | UL- 10C<br>Maximum Size<br>for Double<br>Egress | Maximum<br>Temp Rise | Note Chart                 |
|---|--|--|---|----------------------|----------------------------|
| Steel Stiffened<br>Core: 2.5- PCF SAFB          | Single 4'0"x 10'0"<br>Pair 8'0"x 10'0"       | Single 4'6"x10'2"<br>Pair 9'0"x10'2"               | 8'0" x 8'0"<br>3 - Hour Rating                  | 650 degree           | 1,2,3,5,6,7,8,10,11,13     |
| Over sized steel stiffen<br>Core: 2.5- PCF SAFB | N/A  | Single 5'0"x10'2"<br>Pair 10'0"x10'2"              | N/A   | 650 degree           | 2,3,4,5,6,7,8,10,11,12,13  |
| Steel Stiffened<br>Core: 10 - PCF SAFB          | Single 4'0"x 10'0"<br>Pair 8'0"x 10'0"       | Single 4'6"x10'2"<br>Pair 9'0"x10'2"               | 8'0" x 8'0"<br>3 - Hour Rating                  | 450 degree           | 1,2,3,5,6,7,8,10,11,12,13  |
| Over sized steel stiffen<br>Core: 10 - PCF SAFB | N/A  | Single 5'0"x10'2"<br>Pair 10'0"x10'2"              | N/A   | 450 degree           | 2,3,4,5,6,7,8,10,11,12,13  |
| Steel Stiffen Lead Lined<br>Core: 2.5- PCF SAFB | Single 4'0"x 10'0"<br>Pair 8'0"x 10'0"       | Single 4'6"x10'2"<br>Pair 9'0"x10'2"               | 8'0" x 8'0"<br>3 - Hour Rating                  | 650 degree           | 1,2,3,5,6,8,9,10,11,12,13  |
| Steel Stiffen Lead Lined<br>Core: 10 - PCF SAFB | Single 4'0"x 10'0"<br>Pair 8'0"x 10'0"       | Single 4'6"x10'2"<br>Pair 9'0"x10'2"               | 8'0" x 8'0"<br>3 - Hour Rating                  | 450 degree           | 1,2,,3,5,6,8,9,10,11,12,13 |
| Honeycomb core                                  | Single 4'0" x 8'0"<br>Pair 8'0"x 8"0"        | Single 4'0" x 8'0"<br>Pair 8'0"x 8"0"              | 8'0" x 8'0"<br>3 - Hour Rating                  | N/A                  | 1,7,10,11,13               |
| Insulated Polystyrene<br>Core                   | Single 3'0" x 7'0"<br>Pair 6'0"x 7"0"        | Single 3'0" x 7'0"<br>Pair 6'0"x 7"0"              | N/A   | N/A                  | 1,7,10,11,13               |

**Note # 1** -Single Doors under 4'0" x 10'0" and active leaves of pairs under 8'0"x10'0" to Utilize a UL listed single point latch with min throw of 1/2 " .

**Note # 2**- Single Doors 4'0" x 10'0" or greater and active leaves of pairs 8'0"x10'0" or greater to Utilize a UL listed single point latch with min throw of 3/4 " .

**Note # 3** -Pairs of Doors 8'0" wide or greater or 10'0" tall or greater must incorporate a steel astragal with a minimum overlap of 3/4" on the inactive leaf.

**Note # 4**- Face construction for door leaves over 4'6" wide; two sheets steel welded together at an invisible vetical seam located over inverted steel stiffener hat channels.

**Note # 5**- Pairs of Doors wider than 8'0" must utilize a fusable fire pin or auxiliary latch mortised into the top channel of the active leaf next to the lock edge of the door.

**Note # 6** -UL listed latch sets, exit hardware, and flush bolts to be used on oversize doors may be used even though only tested for door leaves up to 4'0" x 10'0".

**Note # 7**- All rated Doors may be prepared for a UL listed viewer.

**Note # 8**- All Door leaves over 4'0" wide or 10'0" tall are available up to a 90 minute fire rating (UL10B) only.

**Note # 9**- Lead Lined Doors are not available over 4'6" wide.

**Note #10**- Fire rated Doors may be prepared for any UL listed metal glazing kit or the standard JR Metal Frames Lite kit preparation.

**Note # 11**- Doors may utilize any UL classified glazing material approved for use with HM Fire Doors. Size, min stop, and max exposed glazing area to be in accordance with UL glazing used.

**Note # 12**- If the total exposed area of all glazed openings in the Door exceeds 100 sq. inches than the Door cannot bear a Temperature Rise Rating.

**Note # 13** -Smoke label available to any door bearing UL label. Gasket is not supplied and must be UL approved .

|   |                                      |                |                 |
|---|--------------------------------------|----------------|-----------------|
| <b>JR METAL FRAMES</b><br><small>MANUFACTURERS OF STANDARD AND CUSTOM HOLLOW METAL FRAMES AND DOORS</small> |                                      |                |                 |
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| <b>QUALITY<br/>SINCE 1981</b>   | Title: <b>Fire Rating Door Chart</b> |                |                 |
| Original Date:  | Revision:                            | Revision Date: | Drawing Number: |
| Drawn By:   | Scale:                               | Sheet:         | <b>of</b>       |