

# FyreWerks FC-60 & FC-45 Door Specifications

45 and 60-minute doors can be built in two ways:

Category “A”, NO ADDITIONAL EDGE-SEALING SYSTEM REQUIRED. This category includes doors with FyreWerks FyreEdge intumescent built into the edge of the door.

Category “B”, ADDITIONAL EDGE-SEALING SYSTEM REQUIRED. This category includes doors evaluated with an intumescent applied to the frame – either surface applied or “built in”. FyreEdge is not required under this category.

## **Maximum Sizes – (Finished Door)**

Single Swing                      48 inches wide by 96 inches high

**Full radius top doors are allowed**

Pairs                                      84 inches wide by 96 inches high

Minimum Thickness              1-3/4 inches +/- 1/16 inch

## **Core**

FyreWerks FC-60, 60 minute core  
FyreWerks FX-60, 60 minute core  
FyreWerks FC-45, 45 minute core  
FyreWerks FX-45, 45 minute core

Minimum Core Thickness      1/2” +/- 1/32”

## **Intumescent Edge**

FyreWerks FyreEdge 60 installed in both stiles and top rail. 1-1/4” minimum width. Maximum hardwood over the face = 1/4”

## **Door Faces**

- Medium Density Fiberboard (routed)
- Hardwood w/ minimum density of 26 pcf
- Veneer – 1/16” wood veneer over core
- Decorative Laminate – 0.050” HPL

## **Adhesives**

Press times, pressures, temperatures, roll design, and spread rates should comply with the adhesive manufacturer’s recommendations.

Any adhesives approved for 90-minute wood or composite fire door constructions are allowed.

Note: Follow adhesive manufacturer’s instructions and bulletins for mixing, application rates, pressing parameters, and safe use practices.

## **Hardware Preparation**

Preparation shall be made in accordance with NFPA 80, Para. 1-3.5. Only hardware listed for use with wood fire doors may be installed. Hardware not listed below must be approved, in writing, by Intertek Testing Services.

<b>Hinges</b>	Per NFPA 80, Table 2-4.3.1 Continuous Hinges Pivot Hinges
<b>Latch sets</b>	Minimum latch bolt throw shall be 1/2" unless otherwise noted.  Cylindrical – Maximum bore 2-1/8". Maximum backset 5".  Mortise – Lock mortise shall not exceed lock case dimensions by more than 1/8".  Pre-Assembled
<b>Fire Exit Devices</b>	Surface mounted vertical rod.  Rim-type surface mounted.  Concealed vertical rod – contact FyreWerks for details.
<b>Deadlock</b>	Cylindrical with a maximum 2-1/8" diameter bore located a minimum of 5" above latch cutout.
<b>Flush bolts</b>	Mortised manual. Surface mounted manual. Mortised automatic – DCI 960, 962
<b>Automatic Door Bottoms</b>	Mortised or surface mounted.
<b>Closing Devices</b>	Surface mounted.
<b>Viewers</b>	Listed viewers may be used.
<b>Protection Plates</b>	Plates of brass, bronze, steel, aluminum, polycarbonate or decorative laminate may be installed on one or both sides of the door.
<b>Louvers</b>	Vented louvers are allowed. Contact FyreWerks for details.
<b>Electric Raceways</b>	See attached drawings.

## **Plant-Ons**

Use of molding as a plant-on on 45/60 minute labeled doors may be applied to one or both sides of door.

<b>Maximum Width</b>	1-3/4 inches
<b>Maximum Height</b>	3/4 inches
<b>Material</b>	Wood – Douglas fir or denser, MDF.
<b>Attachments</b>	Adhesive and/or mechanical fasteners with a maximum penetration into the door 3/4 inch spaced not more than 12 inches on center
<b>Spacing</b>	Minimum spacing from edge of door or lite, 4 inches.
<b>Maximum Area Of Molding</b>	Not to exceed 20% of face area of door.

## **Vision Panels (45-minute door only)**

1. Glazing shall be permitted with a maximum area not exceeding 1248 square inches.

Maximum Length      48”

Maximum Width      26”

2. Multiple lites are allowed when the sum of the areas does not exceed the tested area, with maximum length and width limitations.
3. No lites cutout shall come within 5 inches of a door edge or 1 inch from any other cutout in the door. Lites may not be installed in panels, but may replace a panel.
4. Only fire-rated ceramic glazing installed in accordance with FyreWerks listed procedures shall be used. Lites shall be listed for positive pressure applications.

**Vision Panels (60-minute door only)**

1. Glazing shall be permitted with a maximum area not exceeding 100 square inches of visible glass.
2. No lites cutout shall come within 5 inches of a door edge or 1 inch from any other cutout in the door. Lites not be within 2 inches of panel edge.