

FyreWerks FC-20 Door Specifications

20-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
Pairs	84 inches wide by 96 inches high
Minimum Thickness	1-3/4 inches +/- 1/16 inch

Core

FyreWerks FC-20, 20 minute core (raised or flat panel)
FyreWerks FX-20, 20 minute core (raised panel only)
FyreWerks FW-20, 20-minute core (raised or flat panel)

Minimum Core Thickness	1/4” +/- 1/32”
------------------------	----------------

Intumescent Edge

FyreWerks FyreEdge – installed in stiles and top rail. 1-1/4” minimum width, maximum hardwood cover = 1/4” (after trim)

Door Faces

- Medium Density Fiberboard (routed)
- Hardwood w/ minimum density of 18 pcf
- Veneer – 1/16” wood veneer over core
- Decorative Laminate – 0.050” HPL

Full Radius Doors are allowed

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.

Hinges	Per NFPA 80, Table 2-4.3.1 Continuous Hinges Pivot Hinges
Latch sets	Minimum latch bolt throw shall be 1/2” unless otherwise noted. Cylindrical – Maximum bore 2-1/8”. Maximum backset 5”. Mortise – Maximum cutout 1-1/16” wide x 4-1/2” deep x 6” long. Pre-Assembled
Fire Exit Devices	Surface mounted vertical rod. Rim-type surface mounted. Concealed vertical rod – Contact FyreWerks for details.
Deadlock	Cylindrical with a maximum 2-1/8” diameter bore located a minimum of 5” above latch cutout. Mortise deadlock is allowed (refer to Mortise Latchset for cutout) located a minimum of 5” above the latch cutout.
Flush bolts	Mortised manual. Surface mounted manual. Mortised automatic
Automatic Door Bottoms	Mortised or surface mounted.
Closing Devices	Mortised or surface mounted.
Viewers	Listed viewers may be used.
Electric Raceways	See attached drawings

Protection Plates	Plates of brass, bronze, steel, aluminum, polycarbonate or decorative laminate may be installed on one or both sides of the door.
Louvers	Vented louvers are allowed. Contact FyreWerks for details.

Plant-Ons

Use of molding as a plant-on on 20 minute labeled doors may be applied to one or both sides of door.

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

Vision Panels

1. Glazing shall be permitted with a maximum area not exceeding 1296 square inches.

Maximum Length	54"
Maximum Width	30"
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 any other cutout in the door. Lites may not be installed in panels, but may replace a panel.
4. Only fire-rated glazing installed in fire-rated lite frames listed and labeled for use in wood fire doors shall be used. The glass shall be installed in accordance with NFPA and the lite frame installation instructions. Lites shall be listed for positive pressure applications.