



Fire Door Capability Chart – 20, 45, 60, 90-Minute Positive Pressure

November 1, 2009

Fire Rating	Maximum Door Size	Maximum Lite W L Sq Inch	Hinges & Pivots	Locks	Closers	Flush Bolts	Fire Exit Devices	Auto Door Bottoms	Kick Plates
20-Minute (Full radius doors are allowed.)	4/0 x 8/0 single 7/0 x 8/0 pair	30" 54" 1,296"	Per NFPA 80 Table 2-1 3.1	Cylinder, Mortise & Dead Bolt	Surface Concealed	Listed Manual, Mortised Auto (DCI 960, 962)	Surface CVR	Mortised, Surface	Surface
45-Minute (Full radius doors are allowed.)	4/0 x 8/0 single 7/0 x 8/0 pair	26" 48" 1,248"	Per NFPA 80 Table 2-1 3.1	Cylinder, Mortise & Dead Bolt	Surface	Listed Manual, Mortised Auto (DCI 960, 962)	Surface CVR	Mortised, Surface	Surface
60-Minute (Full radius doors are allowed.)	4/0 x 8/0 single 7/0 x 8/0 pair	10" 25" 100"	Per NFPA 80 Table 2-1 3.1	Cylinder, Mortise & Dead Bolt	Surface	Listed Manual, Mortised Auto (DCI 960, 962)	Surface CVR	Mortised, Surface	Surface
90-Minute	4/0 x 8/0 single	10" 25" 100"	Per NFPA 80 Table 2-1 3.1	Cylinder, Mortise & Dead Bolt	Surface	Listed Manual, Mortised Auto (DCI 960, 962)	Surface	Mortised, Surface	Surface

- Electrical Raceways are allowed in all doors. (20 – 90-minute)
- Ventilation Louvers are allowed in all doors. (20 – 90-minute)

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Wood Frames - Single Rabbet or Flat jamb with applied stop

20-minute

3/6 x 8/0 Single (softwood) 5/6 x 8/0 Pair (softwood)
4/0 x 9/0 Single (hardwood) 8/0 x 9/0 Pair (hardwood)

45-Minute

4/0 x 8/0 Single

60-Minute

4/0 x 8/0 Single

90-Minute

3/6 x 8/0 Single

Approved Use of FyreWerks Door Cores and FyreFrames

Fire Doors: Category “A” or Category “B” doors can be constructed with FyreWerks door cores in 20, 45, 60 and 90-minute doors.

Category “B” doors hung in FyreWerks wood door frames meet positive pressure requirements without any added intumescent.

** 60-minute frames built with FyreWerks FFX-45/60 frame core requires the addition of a Category “G” edge seal.

Cores may be spliced vertically with one splice per door utilizing a 1” lap joint. Contact FyreWerks for specific details.

Wood Frames: FyreWerks manufactures 3 different frame cores. All frame cores are sold as sheet stock and can be cut down to fit the appropriate wall thickness. Minimum wall thickness on 45, 60 and 90-minute frames is 4-5/8”. Single rabbet, flat jambs with applied stops or communicating frames can be built with the FyreWerks frame cores. Contract FyreWerks for specific manufacturing details!

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