



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

Fire Rating	Maximum Door Size	Maximum Lite			Hinges & Pivots	Locks	Closers	Flush Bolts	Fire Exit Devices	Auto Door Bottoms	Kick Plates
		W	L	Sq. Inch							
20 –min	4/0 x 8/0 single	30 “	54 “	1296 “	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
	7/0 x 8/0 pair										
	(full radius doors are allowed)										
45 –min	4/0 x 8/0 single	26 “	48”	1248 “	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
	7/0 x 8/0 pair										
	(full radius doors are allowed)										
60 –min	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 CVR	Mortised, Surface	Surface
	7/0 x 8/0 pair										
	(full radius doors are allowed)										
90 –min	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 CVR	Mortised, Surface	Surface

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



Wood Frames – Single Rabbet or Flat jamb with applied stop

<u>20-minute</u>		<u>45-minute</u>	<u>60-minute</u>	<u>90-minute</u>
3/6 x 8/0 Single (softwood)	5/6 x 8/0 Pair (softwood)	4/0 x 8/0 Single	4/0 x 8/0 Single	3/6 x 8/0 Single
4/0 x 9/0 Single (hardwood)	8/0 x 9/0 Pair (hardwood)			

Approved Use of Door Cores and Frames

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

Category “B” doors hung in Executive Door wood door frames meet positive pressure requirements with any added intumescent.

\*\* 60-minute frames built with 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 Executive Door for specific details.

Wood Frames: Executive Door handles 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 fire door frame cores. Contract Executive Door for specific manufacturing details.