

Fire Rated Door Summary of Listings

* This table pertains to fire approvals. It is the users responsibility to evaluate the affect of various options on special requirements such as Radiation Shielded shielding and acoustic performance.
 * All hardware and accessories used on fire rated doors must be appropriately listed
 * Columns indicate association approval for each option. Combinations of options can affect approval status or available sizes.

INTERTEK TESTING SERVICES – WARNOCK HERSEY (ITS-WH) NEUTRAL PRESSURE							INTERTEK TESTING SERVICES – WARNOCK HERSEY NEUTRAL PRESSURE (CONT.)						
	Door	Code	Maximum Size	Maximum Visible Glass Size (12, 13)	Side Edge Covering	Hinges & Pivots	Latching Devices (7)	Closers/Overhead Stops	Viewers	Fusible Link Louvers (1, 13)	Kickplates	Drop Seals	Transoms (10, 18)
Single Doors	90-min (B) Mineral core	DFM-90 EFM-90	4/0 x 10/0 (1219mm x 3048mm)	See Lite Approvals	Veneer banding or decorative laminate; Full or partial length metal edge protectors (2)	Per NFPA 80: 4-1/2" x 0.134" (114mm x 3.4mm) butt or listed continuous hinges; doors 3/0 x 7/0 (914mm x 2134mm) or less may use 4" x 0.105" (102mm x 2.7mm) butt or spring hinges Doors 1-3/8" x 3/0 x 7/0 (35mm x 914mm x 2134mm) or less may use 3-1/2" x 0.123" (89mm x 3mm) butt hinges; some pivots allowed on 20 and 45 minute doors	Cylindrical, mortised, unit & card locks, mortised exits, full surface vertical rods, rim exits	Surface mounted	One or more 1" (25mm) diameter viewers 5 1/2" (140mm) from door perimeter and each other.	Area limit is 576 sq. in. (3716 sq. cm.) max continuous length or width; 24" (609mm) 1 or 2 individual louvers	Metal, HPL, PVC or acrovyn; up to 48" (1219mm) from the bottom of the door	Any listed full or semi-mortised drop seal requiring a maximum cutout size of 1-15/16" deep and 15/16" wide or less (16)	For approved frame with a transom bar: max opening is 4/0 x 10/0 (1219mm x 3048mm), area not to exceed 40 sq. ft. (3.7 sq. m.) Without transom bar: rabbeted joint, max opening 3/6 x 9/11 1/2 (1067mm x 3035mm) (3, 17) Max combination: 4/0 x 10/0 (1219mm x 3048mm); Meeting edge: transom bar, metal edge/astragal or rabbeted (17) oak
	60-min (B) Mineral core	DFM-60 EFM-60					Cylindrical, mortised, unit & card locks, mortised exits, full surface vertical rods, rim exits, concealed vertical rods (15)						
	45-min (C) Mineral core	DFM-45 EFM-45					Cylindrical, mortised, unit & card locks, mortise exits, full or top rod only surface vertical rods, rim exits, concealed vertical rods (15), Adams Rite 3900 concealed vertical rod top rod only	Surface mounted or concealed overhead					
	20-min Particleboard core or Staved core	DFP-20 DFS-20 ESC-20 EPC-20					Veneer banding or decorative laminate; full or partial length metal edge protectors (2); or PVC	Surface mounted or concealed overhead					
20-min Structural Composite Lumber	DCL-20												
Standard Pair Doors	90-min (B) Mineral core	DFM-90 EFM-90	8/0 x 8/0 (2438mm x 2438mm)	See Lite Approvals	Veneer banding or decorative laminate; metal edge/astragal, two metal edges (4,5) or Concealed Intumescent stiles	Per NFPA 80: 4-1/2" x 0.134" (114mm x 3.4mm) butt or listed continuous hinges; doors 3/0 x 7/0 (914mm x 2134mm) or less may use 4" x 0.105" (102mm x 2.7mm) butt or spring hinges Doors 1-3/8" x 3/0 x 7/0 (35mm x 914mm x 2134mm) or less may use 3-1/2" x 0.123" (89mm x 3mm) butt hinges; some pivots allowed on 20 and 45 minute doors	Cylindrical, mortised, mortised exits, unit & card locks, full surface vertical rods, rim exits, flushbolts and extension flushbolts	Surface mounted	One or more 1" (25mm) diameter viewers 5 1/2" (140mm) from door perimeter and each other.	Area limit is 576 sq. in. (3716 sq. cm.) max continuous length or width; 24" (609mm) 1 or 2 individual louvers	Metal, HPL, PVC or acrovyn; up to 48" (1219mm) from the bottom of the door	Any listed full or semi-mortised drop seal requiring a maximum cutout size of 1-15/16" deep and 15/16" wide or less (16)	Not approved
	60-min (B) Mineral core	DFM-60 EFM-60					Cylindrical, mortised, unit & card locks, mortised exits, full surface vertical rods, rim exits, concealed vertical rods (15), flushbolts and extension flushbolts						
	45-min (C) Mineral core	DFM-45 EFM-45					Cylindrical, mortised, unit & card locks, mortised exits, full or top rod only surface vertical rods, rim exits, concealed vertical rods (15), Adams Rite 3900 concealed vertical rod top rod only, flushbolts and extension flushbolts	Surface mounted or concealed overhead					
	20-min Particleboard core or Staved core	DFP-20 DFS-20 ESC-20 EPC-20					Veneer banding or decorative laminate; flush or rabbeted fire retardant stiles, metal edge/astragal, or two metal edges (4)	Surface mounted or concealed overhead					
20-min Structural Composite Lumber	DCL-20												
Double Egress Pair Doors	90-min (B) Mineral Core	DFM-90 EFM-90	Available as Positive Pressure only										
	60-min (B) Mineral core	DFM-60 EFM-60											
	45-min (C) Mineral core(11)	DFM-45 EFM-45	8/0 x 8/0 (2438mm x 2438mm)	See Lite Approvals	Veneer banding or decorative laminate; metal edge/astragal (4)	Per NFPA 80: 4-1/2" x 0.134" (114mm x 3.4mm) butt or listed continuous hinges; doors 3/0 x 7/0 (914mm x 2134mm) or less may use 4" x 0.105" (102mm x 2.7mm) butt or spring hinges Doors 1-3/8" x 3/0 x 7/0 (35mm x 914mm x 2134mm) or less may use 3-1/2" x 0.123" (89mm x 3mm) butt hinges; some pivots allowed on 20 and 45 minute doors	Full surface vertical rods only	Surface mounted	One or more 1" (25mm) diameter viewers 5 1/2" (140mm) from door perimeter and each other.	Not approved	Metal, HPL, PVC or acrovyn; up to 48" (1219mm) from the bottom of the door	Any listed full or semi-mortised drop seal requiring a maximum cutout size of 1-15/16" deep and 15/16" wide or less (16)	Not approved
	20-min Particleboard core or Staved core	DFP-20 DFS-20 ESC-20 EPC-20					Full or top rod only surface vertical rods	Surface mounted or concealed overhead					
20-min Structural Composite Lumber	DCL-20	Veneer banding or decorative laminate; flush fire retardant stiles, metal edge/astragal, or two metal edges (4)					Surface mounted or concealed overhead						
Other Doors	20-min, 1-3/8" (35 mm) Particleboard core	DFP-20	3/0 x 7/0 (914mm x 2134mm)		Veneer banding or decorative laminate	Per NFPA 80: 4-1/2" x 0.134" (114mm x 3.4mm) butt or listed continuous hinges; doors 3/0 x 7/0 (914mm x 2134mm) or less may use 4" x 0.105" (102mm x 2.7mm) butt or spring hinges Doors 1-3/8" x 3/0 x 7/0 (35mm x 914mm x 2134mm) or less may use 3-1/2" x 0.123" (89mm x 3mm) butt hinges; some pivots allowed on 20 and 45 minute doors	Cylindrical locks	Surface mounted	One or more 1" (25mm) diameter viewers 5 1/2" (140mm) from door perimeter and each other.	Not approved	Metal, HPL, PVC or acrovyn; up to 48" (1219mm) from the bottom of the door	Any listed full or semi-mortised drop seal requiring a maximum cutout size of 1-15/16" deep and 15/16" wide or less (16)	Not approved
	20-min Dutch door	DFP-20 EPC-20	4/0 x 8/0 (1219mm x 2438mm)	Single or multiple lites not to exceed 100 sq. in. (645 sq. cm.) of visible glass; max high 33" (838mm); max width 12" (305mm)	Veneer banding, decorative laminate; full or partial length metal edge protectors (2) or PVC (8)		Top and Bottom leaf: cylindrical, mortised or card locks	Surface mounted, concealed overhead, or spring hinges					
	20-min Acoustic	DSR-41	4/0 x 9/0 (1219mm x 2743mm)		Veneer banding; partial length metal edges (4), or PVC (8)		Cylindrical, mortised or card locks	Surface mounted					
	20-min, Radiation Shielded w/ 1/8" (3.2mm) lead	WXR-1	Single: 4/0 x 8/0 (1219mm x 2438mm) Pair: 8/0 x 8/0 (2438mm x 2438mm)	Single or multiple lites not to exceed 100 sq. in. (645 sq. cm.) of visible glass; max high 33" (838mm); max width 10" (254mm)	Metal edge/astragal (4)		Cylindrical, mortised, unit locks, mortised exits, full surface vertical rods, rim exits, flushbolts and extension flushbolts, or surface bolts	Surface mounted or concealed overhead					
	20-min Stile & Rail	WSR-20	Single: 4/0 x 9/0 (1219mm x 2743mm) Pair: 8/0 x 9/0 (2438mm x 2743mm)	Single or multiple lites not to exceed 1040 sq. in. (67 sq. m.) of visible glass; max high 40" (1016mm), max width 26" (660mm)	Veneer banding (9)								

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| <ul style="list-style-type: none"> (1) Louvers not allowed in doors used as a means of egress. (2) Protection channels may be mortised into the stile edge, but cannot be mortised into the face. (3) Special rail construction required. (4) Metal edges and astragals may be veneer wrapped. (5) Metal edges only require special construction. (6) Rim devices require metal edges only. | <ul style="list-style-type: none"> (7) Concealed vertical rods not approved for 90-minute doors at this time. (8) PVC edge protectors approved for 20-minute single swing doors. (9) Banding is optional on flush fire treated stiles. (10) Transoms must be supplied with factory installed springbolts. (11) Requires 90-minute triple ply construction. (12) Metal vision panels may be wood veneer wrapped. | <ul style="list-style-type: none"> (13) Openings must be cut by factory or licensed machiner, minimum distance from cutout to any edge or adjacent openings is 5-1/2" (140mm) (14) If a mullion is used between leaves, metal edges are not required. (15) For detailed information on concealed vertical rods see TechUpdate 162. (16) 3-1/4" AT bottom rail required for mineral core and 3-7/8" LSL bottom rail required for 20-minute doors. (17) Maximum combination height for doors and transoms that are rabbeted is 9/11-1/2 (18) Transoms may not be available on all door types. | <ul style="list-style-type: none"> HPL = High Pressure Laminate Fire doors to be installed per NFPA 80. Maximum allowable undercut is 3/4" |
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