

Fire-Rated Door Summary of Listings (ITS-WH) Neutral Pressure



INTERTEK TESTING SERVICES - WARNOCK HERSEY (ITS-WH) NEUTRAL PRESSURE

	Door	Maximum Size (6)	Maximum Visible Glass Size (1,2,8,10)	Vertical Edge Covering (11)	Hinges & Pivots	Latching Devices (20)	Closers	Viewers	Fusible Link Louvers (19)	Kick Plates	Drop Seals (15)	Transoms (5,13)	
SINGLE DOORS	90 Min. (B) Mineral Core	4'0"x10'0" (1219mm x 3048mm)		Veneer banding or decorative laminate (4); full or partial length metal edge protectors		Cylindrical, mortised, unit & card locks, mortised exits, full surface vertical rods, rim exits	Surface mounted		Area limit is 576 sq. in. (3716sq. cm.) max length or width 24" (609mm); 1 or 2 individual lovers*~		Any listed full or semi-mortised drop seal requiring a maximum cutout size of 1" wide x 1-15/16" deep or less (16)	For approved frame with a transom bar: max opening is 4'0"x10'0" (1219mm or 3048mm), area not to exceed 40sq. ft. (3.7sq. m) Without transom bar: rabbeted joint, max opening 3'6"x9'11-1/2" (1067mm x 3035mm) (3,17)	
	60 Min. (B) Mineral Core												
	45 Min. (C) Mineral Core												
	45 Min. Bonded Particle Core	4'0"x8'0" (1219mm x 2438mm)					Cylindrical, mortised, card locks, mortised exits, full or top rod only surface vertical rods, rim exits					Any listed full or semi-mortised drop seal requiring a maximum cutout size of 2-1/4" Deep x 1" wide or less (16)	Not Available
	20 Min. Bonded Particle Core(19)	4'0"x10'0" (1219mm x 3048mm)					Cylindrical, mortised, unit & card locks, mortise exits, full or top rod only surface vertical rods (7), full or top rod only concealed vertical rods		Surface mounted or concealed overhead		*~ See above with Intumescent stapled to cutout	Not Available	
20 Min. Structural Composite Lumber Core				Not approved	Max combined opening 4'0" x 10'0". Approved with rabbeted-rail, flat rail or transom bar.								
STANDARD PAIR DOORS	90 Min. (B) Mineral Core	See table in lower right hand corner	See Appendix I for Lite Approvals	Veneer banding, decorative, laminate; metal edge/ astragal, two metal edges (4,5) or Concealed intumescent stiles	Hinges and pivots per NFPA 80	Cylindrical, mortised, mortised exits, unit and card locks; full surface vertical rods, rim exits, concealed vertical rods(7) flushbolts and extension flushbolts or top rod only surface vertical rods, rim exits, concealed vertical rods(7)	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. (3716sq. cm.) max length or width 24" (609mm); 1 or 2 individual lovers	Metal, HPDL, 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"	Max combined opening 8'0" x 9'0". Approved with transom bar only	
	60 Min. (B) Mineral Core												
	45 Min. (C) Mineral Core												
	45 Min. Bonded Particle Core	6'0"x7'0" (1828mm x 2133mm)					*~ See above with Intumescent stapled to cutout		Not Available				
	20 Min. Bonded Particle Core (19)	8'0"x10'0" (2438mm x 3048mm)			Veneer banding or decorative laminate; flush or rabbeted fire retardant stiles; metals edges/astragal or two metal edges (4)	Surface mounted or concealed overhead	Not approved		Any listed full or semi-mortised drop seal requiring a maximum cutout size of 2-1/4" Deep x 1" wide or less (16)	Not Available			
20 Min. Structural Composite Lumber Core				Max combined opening 8'0" x 9'0". Approved with transom bar only									
DOUBLE EGRESS DOORS	90 Min. (B) Mineral Core	Available as Positive Pressure Only											
	60 Min. (B) Mineral Core												
	45 Min. (C) Mineral Core	8'0"x9'0" (2438mm x 2743mm)	See Appendix I for Lite Approvals	Veneer banding or decorative laminate; metal edge/astragal (4)		Full surface vertical rods only	Surface mounted					Any listed full or semi-mortised drop seal requiring a maximum cutout size of 2-1/4" Deep x 1" wide or less (16)	
	20 Min. Bonded Particle Core (19)					Full or top rod only surface vertical rods	Surface mounted or concealed overhead						
20 Min. Structural Composite Lumber Core													
OTHER DOORS	20 Min. 1-3/8" (35mm) Bonded Particleboard/Structural Composite Lumber Core	3'0"x7'0" (914mm x 2133mm)		Veneer banding or decorative laminate	Hinges and pivots per NFPA 80	Cylindrical locks	Surface mounted	One or more 1" (25mm) diameter viewers 5-1/2" (140mm) from door perimeter and each other	Not approved	Metal, HPDL, PVC or acrovyn; up to 48" (1219mm) from the bottom of the door	Not Approved	Not approved	
	20 Min. Dutch Door Structural Composite Lumber Core	Sgl: 4'0"x8'0" (1219mm x 2438mm)	Single or multiple lites not to exceed 100sq. in. (645sq. cm.) of visible glass; max height 33" (838mm) max width 12" (305mm)	Veneer banding or decorative laminate; full or partial length metal edge protects (2) or PVC (8)		Top and Bottom leaf: cylindrical, mortised	Surface mounted, concealed overhead, or spring hinges						
	20 Min. Acoustic	Sgl: 4'0"x9'0" (1219mm x 2743mm)	See Appendix M for Lite Approvals			Cylindrical mortised or card locks							
	20 Min. Radiation Shielded with 1/8" (3.2mm) Lead	Sgl: 4'0"x8'0" (1219mm x 2438mm), PR: 8'0"x8'0" (2438mm x 2438mm)	See Appendix N for Lite Approvals	Metal edge/astragal (4)		Surface mounted	Any listed full or semi-mortised drop seal requiring a maximum cutout size of 2-1/4" Deep x 1" wide or less (16)						

This table pertains to fire approvals. It is the user's responsibility to evaluate the effect of various options on special requirements such as radiation shielding and acoustic performance.

- Louvers not allowed in doors used as a means of egress
- Protection channels may be mortised into the stile edge, but cannot be mortised into the face
- Special rail construction required
- Metal edges and astragals may be veneer wrapped
- Metal edges only require special construction
- Rim devices require metal edges only unless a fixed mullion is used
- For detailed information on concealed vertical rods, see Appendix P
- PVC edge protectors approved for 20-minute single swing doors
- Banding is optional on flush fire treated
- Transoms must be supplied with factory installed springbolts
- Clean Edge, HPDL and Veneer Edge approved for rail applications
- Metal vision panels may be wood veneer wrapped
- Openings must be cut by factory or licensed machiner, for minimum cut out distances, see Appendix K
- If a mullion is used between leaves, metal edges are not required
- Listed surface applied door shoes also available
- 3-1/4" AT bottom rail required for mineral core and 3-7/8" SCL bottom rail required for 20-minute doors
- Maximum combination height for doors and transoms that are rabbeted is 9'11-1/2"
- Transoms may not be available on all door types
- For non-bonded cores, additional size limitations may apply
- Contact sales for additional latching device approvals

HDPL = High Pressure Decorative Laminate
 Fire doors to be installed per NFPA 80
 Maximum allowable undercut is 3/4"
 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.

Maximum Door Sizes for Standard Mineral Core Pairs

	Maximum Door Size*		
	45	60	90
4-Point (2 SVRs)	Without MEA	8x8'0"	8x8'0"
	With ME	8x9'0"	8x9'0"
4-Point (SVRs x Corner Flushbolts)	Without MEA	8x8	8x8
	With ME	8x9	8x8
3-Point (Single Point and Corner Flushbolts)	Without MEA	8x8	8x8
	With ME	8x9	8x8
3-Point (2 SVRs) or 2-point plus pin	Without MEA	8x8	8x8
	With ME	8x8	8x8

* Max height may require 6" stile