

Summary of Listings ITS-WH&UL - Positive Pressure Category A



INTERTEK TESTING SERVICES - WARNOCK HERSEY (ITS-WH) & UNDERWRITERS LABORATORIES (UL) POSITIVE PRESSURE CATEGORY A

	Door	Maximum Size (6)	Maximum Visible Glass Size (1,2,7,8,10)	Vertical Edge Covering	Hinges	Latching Devices (14)	Closers	Viewers	Fusible Link Louvers (4)	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		Cylindrical, mortised, card locks, mortised exits, full or top rod only surface vertical rods, rim exits, full or top rod only concealed vertical rods**			Area limit is 576 sq. in. (3716sq. cm.) max length or width 24" (609mm): 1 or 2 individual lovers*~	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" wide x 1-15/16" deep or less (16)	Max combined opening 4'0"x9'0"; approved with or without a transom bar.
	60 Min. (B) Mineral Core											
	45 Min. (C) Mineral Core										Surface Applied only	Not Available
	45 Min. Bonded Particle Core	4'0"x8'0" (1219mm x 2438mm)	4'0"x10'0" (1219mm x 3048mm)	** See above	*~ See above with Intumescent stapled to cutout	Metal, HPL, PVC or acrovyn up to 16" (406mm) from the bottom of the door	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 ^(10,11)	20 Min. Structural Composite Lumber Core							Not approved	Not Available		
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 or metal edge and astragal	Hinges and pivots per NFPA 80	Cylindrical, mortised, card locks, mortised exits, full or top rod only surface vertical rods, rim exits, flushbolts and extension flushbolts***	Surface mounted or concealed (listed for positive pressure) or 2 spring hinges per NFPA 80	*UL: One 1" (25mm) diameter viewer, or two 9/16" (13mm) diameter viewers 5-1/2" (140mm) from door perimeter and each other. ITS-WH: One or more for 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, 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" wide x 1-15/16" deep or less (16)	Not approved
	60 Min. (B) Mineral Core											
	45 Min. (C) Mineral Core										Surface Applied only	Not Available
	45 Min. Bonded Particle Core	6'0"x7'0" (1828mm x 2133mm)	8'0"x9'0" (2438mm x 2743mm)	*** See above	*~ See above with Intumescent stapled to cutout	Metal, HPL, PVC or acrovyn up to 16" (406mm) from the bottom of the door	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 ^(10,11)	20 Min. Structural Composite Lumber Core							Not approved	Not Available		
DOUBLE EGRESS DOORS	90 Min. (B) Mineral Core	8'0"x9'0" [2438mm x 2743mm]		Veneer banding or decorative laminate		Cylindrical, mortised, card locks, mortised exits, full or top rod only surface vertical rods, rim exits, full or top rod only concealed vertical rods, flushbolts and extension flushbolts			Area limit is 576 sq. in. (3716sq. cm.) max length or width 24" (609mm): 1 or 2 individual lovers	Metal, HPL, PVC or acrovyn up to 48" (1219mm) from the bottom of the Veneer banding, decorative laminate or door	Any listed full or semi-mortised drop seal requiring a maximum cutout size of 1" wide x 1-15/16" deep or less (16)	Not approved
	60 Min. (B) Mineral Core											
	45 Min. (C) Mineral Core										Surface Applied only	Not Available
	20 Min. Bonded Particle Core ⁽¹⁰⁾	8'0"x9'0" (2438mm x 2743mm)	8'0"x9'0" (2438mm x 2743mm)	*** See above	*~ See above with Intumescent stapled to cutout	Metal, HPL, PVC or acrovyn up to 16" (406mm) from the bottom of the door	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	Not approved							Not Available			
OTHER DOORS	20 min Dutch Door Structural Composite Lumber	4'0"x8'0" (1219mm x 2438mm)	Single or multiple lites not to exceed 1296sq. in. (8351 sq. cm.) of visible glass; max continuous dim: 36" (914mm) high, 36" (914mm) wide	Veneer banding or decorative laminate		Cylindrical, mortised			Not approved			Not approved
	20 Min. Radiation Shielded	Sgl: 4'0"x8'0" (1219mm x 2438mm) Std PR 8'0"x9'0" (2438mm x 2438mm); DE:N/A	See Appendix N for Lite Approvals	Veneer banding or lead-lined metal edge and astragal		Cylindrical, mortised, deadbolts, surface vertical rods, rim and mortised exit devices, card locks		Not Approved		Brass, bronze, steel, aluminum or HPL; up to 40" (1016mm) from the bottom of the door.	Surface, semi or full mortise: max size 1"x1- 3/4"	
	20 Min. Acoustic	Sgl: 4'0"x8'0" (1219mm x 2438mm) Std PR: 8'0"x8'0" (2438mm x 2438mm) DE: N/A	See Appendix M for Lite Approvals	Veneer banding or decorative laminate		Cylindrical, mortised, mortised exit, full surface vertical rods, rim exits and card locks	Surface mounted (Listed for positive pressure)	*See above		HPL, Polycarbonate or metal; up to 16" (406mm) from bottom of the door	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. 1-3/8" (35mm) Particle Core / Structural Composite Lumber	Available with Frame Mounted Intumescent only - See Frame Mounted Intumescent Page										

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 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.

- 45-90 minute doors approved with non-combustible bead using safety rated 1/4" wired glass or 110 metal vision frame using safety rated 1/4" wired glass or approved safety glazing in a metal vision frame
- 20-minute lite options include Fire-Trim with 5/16" Firelite® Plus glazing, 1/4" wired glass with wood moulding, 110 metal vision frames with safety rated 1/4" wired glass or approved safety glazing. Canada Trim-Lite Moulding is available on 20-minute doors requiring hose steam
- Edge protection not available on doors with Concealed Intumescent
- Louver must be located in the bottom 39" of the door
- Where transoms are installed without transom bars the meeting rails will have flat joints (not rabbetted)
- Some hardware combinations may affect maximum allowable door sizes
- 110-N metal vision frame required when 3/16" Firelite® NT glass is used
- 5/16" Firelite® Plus glazing with Fire-Trim moulding required when opening exceeds 54" in length or 1296 sq in for 20 min SCL positive pressure
- Refer to Appendix M. Unless noted, lite openings void all STC ratings. STC rating is not guaranteed for doors hung in pairs
- For non-bonded cores, additional size limitations may apply
- 20 Min. positive pressure - concealed intumescent for aluminum frames available in singles (4'0"x9'0") and pairs (8'0"x9'0")
- Maximum extension flushbolt length is 30" for UL 45-90 minute pairs and 18" for ITS 45-90 minute pairs
- Transoms may not be available on all door types
- Contact sales for additional latching device approvals
- Listed surface applied door shoes also available

HPDL = 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.

- 4-Point (2 SVRs)
- 4-Point (SVRs x Corner Flushbolts)
- 3-Point (Single Point and Corner Flushbolts)
- 3-Point (2 SVRs) or 2-point plus pin

Maximum Door Sizes for Standard Mineral Core Pairs

	Maximum Door Size*		
	45	60	90
Without MEA	8x8'0"	8x8'0"	8x8'0"
With ME	8x9'0"	8x9'0"	8x9'0"
Without MEA	8x8	8x8	8x8
With ME	8x9	8x9	8x8
Without MEA	8x8	8x8	8x8
With ME	8x9	8x9	8x8
Without MEA	8x8	8x8	8x8
With ME	8x8	8x8	8x8

* Max height may require 6" stile