



VT Industries, Inc.
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Positive Pressure Fire Door Capabilities

Fire Rating	5 Ply Wood	HPDL	Door Only	Door w/Transom	Max. Size Std. Pair 2, 3 or 4 Point Latching	Max. Size DE Pair 2 or 4 Point Latching	Max. Transom Size
45, 60, 90 Minute Mineral Core	5P11	1P11	4-0 x 9-0	4-0 x 9-0	8-0 x 9-0	8-0 x 8-0	4-0 x 3-4 ¹
60 Minute Mineral Core Single Doors	5P45	1P45	4-0 x 8-0	N/A	N/A	N/A	N/A
45 Minute Mineral Core	5P45	1P45	4-0 x 8-0	N/A	8-0 x 8-0	8-0 x 8-0	N/A
20 Minute Particle Board In Hollow Metal Frame Single Doors	5502	303, 404	4-0 x 9-0	4-0 x 9-0	N/A	N/A	4-0 x 3-4 ²
20 Minute Particle Board In Hollow Metal Frame Paired Doors	5P02	3P03, 4P04	N/A	N/A	8-0 x 9-0	8-0 x 9-0	N/A
20 Minute Particle Board In Listed Aluminum Frame	5P02	3P03, 4P04	4-0 x 8-0 or 3-0 x 8-10½	N/A	6-0 x 8-10½	N/A	N/A
20 Minute SCL In Hollow Metal Frame Single Doors	5508	808	4-0 x 9-0	4-0 x 9-0	N/A	N/A	4-0 x 3-4 ²
20 Minute SCL In Hollow Metal Frame Paired Doors	5P08	8P08	N/A	N/A	8-0 x 9-0	8-0 x 9-0	N/A
20 Minute SCL In Listed Aluminum Frame	5P08	8P08	4-0 x 8-0 or 3-0 x 8-10½	4-0 x 8-10½	6-0 x 8-10½	N/A	4-0 x 3-4 ²
20 Minute Stave In Hollow Metal Frame Single Doors	5507	707	4-0 x 9-0	4-0 x 9-0	N/A	N/A	4-0 x 3-4 ²
20 Minute Stave In Hollow Metal Frame Paired Doors	5P07	7P07	N/A	N/A	8-0 x 9-0	8-0 x 9-0	N/A
20 Minute Stave In Listed Aluminum Frame	5P07	7P07	4-0 x 8-0 or 3-0 x 8-10½	4-0 x 8-10½	6-0 x 8-10½	N/A	4-0 x 3-4 ²
20 Minute Lead Lined In Hollow Metal Frame Single Doors	5515	1515	4-0 x 9-0	N/A	N/A	N/A	N/A
20 Minute Lead Lined In Hollow Metal Frame Paired Doors	5P15	1P15	N/A	N/A	8-0 x 9-0	N/A	N/A

¹ Requires fixed bar between door and transom.

² Requires either fixed bar or approved door/transom astragal.

³ Larger lite sizes may be available using special glass & frame.

⁴ Louvers are not available in 20-minute doors per NFPA 80.

⁵ Less Bottom Rod (LBR) devices do require use of thermal pins into door or floor.

Fire Rating	Max. Lite ³			Max. Louver ⁴ (fusible link)			Hinges & Pivots	Locks
	Width	Length	Square Inches	Width	Length	Square Inches		
45, 60, 90 Minute Mineral Core	10"	33"	100	24"	24"	576	Per NFPA 80 Table 2-4.3.1	Cylinder, Mortise, (max. 5" backset) & Deadbolt
60 Minute Mineral Core Single Doors	Same			Same			Same	Same
45 Minute Mineral Core	Same			Same			Same	Same
20 Minute Particle Board In Hollow Metal Frame Single Doors	30"	54"	1296	N/A			Same	Same
20 Minute Particle Board In Hollow Metal Frame Paired Doors	Same			N/A			Same	Same
20 Minute Particle Board In Listed Aluminum Frame	Same			N/A			Same	Same
20 Minute SCL In Hollow Metal Frame Single Doors	Same			N/A			Same	Same
20 Minute SCL In Hollow Metal Frame Paired Doors	Same			N/A			Same	Same
20 Minute SCL In Listed Aluminum Frame	Same			N/A			Same	Same
20 Minute Stave In Hollow Metal Frame Single Doors	Same			N/A			Same	Same
20 Minute Stave In Hollow Metal Frame Paired Doors	Same			N/A			Same	Same
20 Minute Stave In Listed Aluminum Frame	Same			N/A			Same	Same
20 Minute Lead Lined In Hollow Metal Frame Single Doors	16"	16"	256	N/A			Same	Same
20 Minute Lead Lined In Hollow Metal Frame Paired Doors	Same			N/A			Same	Same

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Fire Rating	Fire Exit Devices⁵	Closers	Viewer 2 per door max.	Flush Bolts	Auto Door Bottoms	Kick Plates
45, 60, 90 Minute Mineral Core	Rim, Surface, CVR & Mortise	Surface	1" Dia.	Listed Auto or Manual, 24" max.	Mortised, Surface & Semi-Mortise	Surface, Max. 48" high
60 Minute Mineral Core Single Doors	Same	Same	Same	Same	Same	Same
45 Minute Mineral Core	Same	Same	Same	Same	Same	Same
20 Minute Particle Board In Hollow Metal Frame Single Doors	Same	Same	Same	Same	Same	Same
20 Minute Particle Board In Hollow Metal Frame Paired Doors	Same	Same	Same	Same	Same	Same
20 Minute Particle Board In Listed Aluminum Frame	Same	Same	Same	Same	Same	Same
20 Minute SCL In Hollow Metal Frame Single Doors	Same	Same	Same	Same	Same	Same
20 Minute SCL In Hollow Metal Frame Paired Doors	Same	Same	Same	Same	Same	Same
20 Minute SCL In Listed Aluminum Frame	Same	Same	Same	Same	Same	Same
20 Minute Stave In Hollow Metal Frame Single Doors	Same	Same	Same	Same	Same	Same
20 Minute Stave In Hollow Metal Frame Paired Doors	Same	Same	Same	Same	Same	Same
20 Minute Stave In Listed Aluminum Frame	Same	Same	Same	Same	Same	Same
20 Minute Lead Lined In Hollow Metal Frame Single Doors	Same	Same	Same	Same	Same	Same
20 Minute Lead Lined In Hollow Metal Frame Paired Doors	Same	Same	Same	Same	Same	Same

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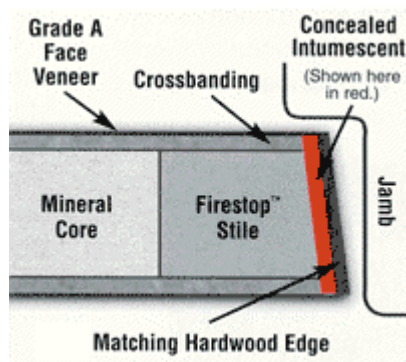
How to Specify Category A Installations

"Where UBC 7-2-1997 requirements for positive pressure must be met, doors shall include all requirements as part of the door construction per Category A guidelines as published by ITS/Warnock Hersey. **No intumescent is allowed on the frame.** Only smoke gasketing applied around the perimeter of the frame to meet the "S" rating is permissible."

POSITIVE PRESSURE FIRE DOOR INSTALLATION INSTRUCTIONS

For Doors That Have Been Labeled in Compliance with UBC 7-2-1997

All VT positive pressure fire doors are provided with the appropriate construction to allow doors to be hung without any surface applied intumescent. Our positive pressure fire doors arrive ready-to-hang, just like all of our other doors. The VT label is your assurance that for one-step installation, Your Edge is positively VT.



**Construction and hardware approvals are continually updated.
Call VT Industries for the most current information. (800) 827-1615**

1. In order to meet the smoke requirement, a smoke seal, listed and labeled for UBC 7-2-1997 Parts 1 and 2 positive pressure installations, must be mounted around the perimeter of the frame.
2. Astragal sets, metal edges, or edge guards will not be allowed on VT positive pressure fire doors due to concealed intumescent within the door structure. Flat bar astragals (FBAs) will be allowed on pairs of door with fire ratings up to 60-minute. 90-minute approvals are pending.
3. Light Kit – [Where applicable] install a light kit listed and labeled for UBC 7-2-1997 positive pressure applications to meet the appropriate fire rating. (See fire label located on door for fire rating.) Follow light kit manufacturer's instructions for proper installation.
4. Frame – Doors must be installed in approved fire rated frames. Standard 3-sided steel frames (minimum 16 gauge) do not require special fire testing for positive pressure. Aluminum or wood frames must have been tested and approved for positive pressure installations. Frames must be installed plumb, square and level.
5. Hardware – Doors have been factory-prepared to receive hardware as indicated by the hardware supplier's schedule. Hardware may be required to be listed and labeled in accordance with UBC 7-2-1997 and UL 10C-1998 for use in positive pressure fire rated wood doors if located above 40" AFF. Anything below 40" AFF can follow existing standards.
6. Clearances – The clearances between the door edge and frame must be at least 1/16 inch and no greater than 1/8 inch at the head and jambs. See NFPA 80 1-11.4, 1999 edition, for clearance under bottom of doors.



NOTE: Some VT doors do not require intumescent in the door to meet UBC 7-2-1997 positive pressure regulations. The VT label is your assurance that doors meet positive pressure requirements.