

Technical Data Series

Tech 301

Polystyrene Doors



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Technical Data

Polystyrene Doors

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Industry Standards	HMMA 867 Laminated Core Hollow Metal Door ANSI A250.4 Physical Endurance Levels of Doors & Frames ANSI A250.6 Recommended Practice for Hardware Reinforcing ANSI A250.8/SDI 100 Specifications for Standard Steel Doors & Frames ANSI A250.10 Test Procedure & Acceptance Criteria for Prime Painted Steel	
Size	Maximum Size: 3'-6" X 8'-0" Nominal Actual Width = Nominal - 1/4" Actual Height = Nominal - 3/4" (5/8" undercut)	
Core	Rigid Pre-Formed Closed Cell Polystyrene Board 1 lb PCF Density Minimum, Conforms to ASTM C578, Type 1 Core U-Factor = 0.156, R-Value = 6.4	
Face Skin Options	18 Gauge (0.042 min) - ANSI A250.8/SDI 100 Level 2 (Standard Duty) 16 Gauge (0.053 min) - ANSI A250.8/SDI 100 Level 3 (Heavy Duty) 14 Gauge (0.067 min) - ANSI A250.8/SDI 100 Level 4 (Extra Heavy Duty)	
Material Type	Cold Rolled Steel - ASTM A1008 A60 Galvannealed - ASTM A653 G90 Galvanized - ASTM A653 (not recommended) Stainless Steel Type 304/316 with #4 Finish	
Edge Type	Bevel Hinge & Lock Edge - 1/8" over 2" (Standard) Square Edge (optional)	
Edge Seam	Seamless - Bondo (Standard) - ANSI A250.8/SDI 100 Model 2 Seamless - Continuous Welded (Optional) - ANSI A250.8/SDI 100 Model 2 Open Seam (Optional) - ANSI A250.8/SDI 100 Model 1	
Top Channel	16 Gauge (0.053 min) Inverted (standard), Flush (optional), Water Tight Seal (optional) Projection Welded	
Bottom Channel	16 Gauge (0.053 min) Inverted (standard), Flush (optional) Projection Welded Weep Hole Provided	
STC Rating	STC 26-29 Consult Tech 403 for Additional Data	
Fire Rating	Up To 3-Hour (consult label section) UL 10C, UL 9, UL 1784	
Thermal Values	Flush 18 Gauge Door - R-Value = 2.56, U-Factor = 0.41 Flush 16 Gauge Door - R-Value = 2.57, U-Factor = 0.39 ASTM C1363, ASTM E1423, ASTM EC1199, SDI 113	
Warranty	One Year (365 days) from the date of delivery	
Endurance	Tested by Intertek Testing Services - Report #3195456MID-002 Passed for Level A - One Million Cycles ANSI A250.4 Test Procedure & Acceptance Criteria for Steel Doors & Frames	
Reinforcements	Hinge Cylindrical Lock (Govt 161) Mortise Lock (Govt 86) Flush Bolts Surface Bolts Surface Closer Surface Holder/Stop Pull Plates/Bars Surface Applied Exit Devices Pivots	7 Gauge (0.167 min) 16 Gauge (0.053 min) 11 Gauge (0.108 min) 11 Gauge (0.108 min) 14 Gauge (0.067 min) 14 Gauge (0.067 min) 14 Gauge (0.067 min) 14 Gauge (0.067 min) 14 Gauge (0.067 min) 7 Gauge (0.167 min)

