

# Technical Data Series

## Tech 301 Polystyrene Doors



**MPI**  
CUSTOM STEEL DOORS & FRAMES

319 North Hills Road, Corbin, Kentucky 40701

[www.metalproductsinc.com](http://www.metalproductsinc.com)

606-523-0461

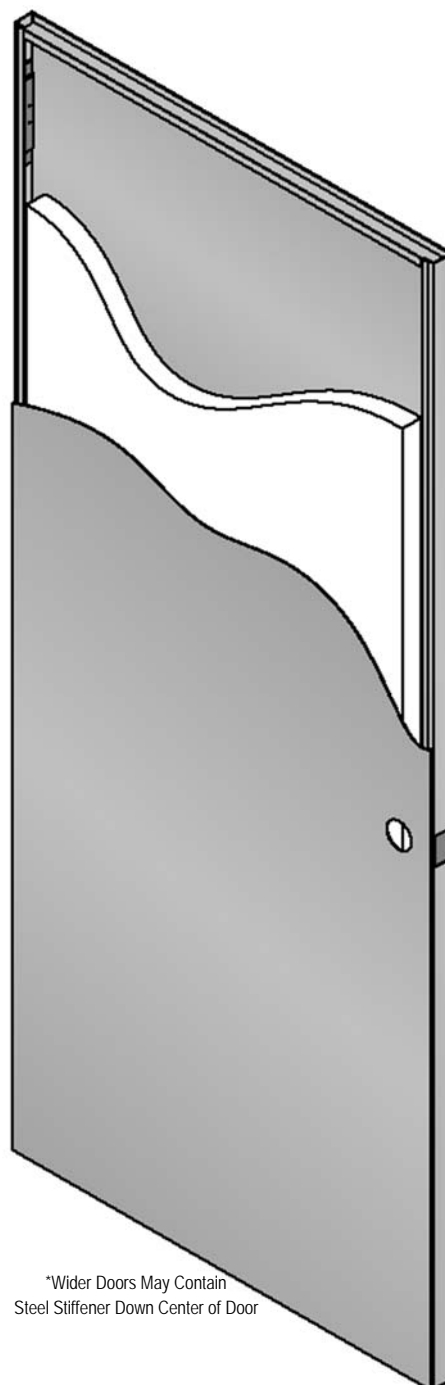
[support@metalproductsinc.com](mailto:support@metalproductsinc.com)

# Technical Data

## Polystyrene Doors

# Tech 301

<b>Industry Standards</b>	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	
<b>Size</b>	Maximum Size: 3'-6" X 8'-0" Nominal Actual Width = Nominal - 1/4" Actual Height = Nominal - 3/4" (5/8" undercut)	
<b>Core</b>	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	
<b>Face Skin Options</b>	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)	
<b>Material Type</b>	Cold Rolled Steel - ASTM A1008 A60 Galvannealed - ASTM A653 G90 Galvanized - ASTM A653 (not recommended) Stainless Steel Type 304/316 with #4 Finish	
<b>Edge Type</b>	Bevel Hinge & Lock Edge - 1/8" over 2" (Standard) Square Edge (optional)	
<b>Edge Seam</b>	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	
<b>Top Channel</b>	16 Gauge (0.053 min) Inverted (standard), Flush (optional), Water Tight Seal (optional) Projection Welded	
<b>Bottom Channel</b>	16 Gauge (0.053 min) Inverted (standard), Flush (optional) Projection Welded Weep Hole Provided	
<b>STC Rating</b>	STC 26-29 Consult <b>Tech 403</b> for Additional Data	
<b>Fire Rating</b>	Up To 3-Hour (consult label section) UL 10C, UL 9, UL 1784	
<b>Thermal Values</b>	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	
<b>Warranty</b>	One Year (365 days) from the date of delivery	
<b>Endurance</b>	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	
<b>Reinforcements</b>	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)



\*Wider Doors May Contain Steel Stiffener Down Center of Door