

# Technical Data Series

## Tech 303 Steel Stiffened Doors



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# Technical Data

## Steel Stiffened Doors

# Tech 303

**Industry Standards**  
 HMMA 861 Vertically Steel Stiffened Hollow Metal Door  
 ANSI A250.4 Level A 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: 5'-0" X 10'-0" Nominal (see oversize door page)  
 Actual Width = Nominal - 1/4"  
 Actual Height = Nominal - 3/4" (5/8" undercut)

**Core**  
 22 Gauge (0.026 min) Stiffeners Spot Welded to Face Sheets  
 Additional Gauge Options Available Upon Request  
 Stiffeners Are Equally Spaced With 6" Between Each Set  
 2.5 lb Density Mineral Fiber Between Stiffeners

**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 33-47  
 Consult **Tech 403** for Additional Data

**Fire Rating**  
 Up To 3-Hour (consult label section)  
 Maximum Size: 4'-0" X 10'-0" Nominal  
 UL 10C, UL 9, UL 1784

**Thermal Values**  
 Flush 18 Gauge Door - R-Value = 1.75, U-Factor = 0.57  
 Flush 16 Gauge Door - R-Value = 1.71, U-Factor = 0.58  
 Flush 14 Gauge Door - R-Value = 1.78, U-Factor = 0.56  
 ASTM C1363, ASTM E1423, ASTM EC1199, SDI 113

**Warranty**  
 One Year (365 days) from the date of delivery

**Endurance**  
 ANSI A250.4 Test Procedure & Acceptance Criteria for Steel Doors & Frames  
 Tested by Intertek Testing Services - Report #3195456MID-002  
 Passed for Level A - One Million Cycles

**Reinforcements**

Hinge	7 Gauge (0.167 min)
Cylindrical Lock (Govt 161)	16 Gauge (0.053 min)
Mortise Lock (Govt 86)	11 Gauge (0.108 min)
Flush Bolts	11 Gauge (0.108 min)
Surface Bolts	14 Gauge (0.067 min)
Surface Closer	14 Gauge (0.067 min)
Surface Holder/Stop	14 Gauge (0.067 min)
Pull Plates/Bars	14 Gauge (0.067 min)
Surface Applied Exit Devices	14 Gauge (0.067 min)
Pivots	7 Gauge (0.167 min)

