

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)

