

## Tech 304

# Temperature Rise Doors



**The MPI Group, LLC**

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

## Temperature Rise Doors

# Tech 304

|                           |  |                      |
|---------------------------|--|----------------------|
| <b>Industry Standards</b> | HMMA 861 Vertically Steel Stiffened Hollow Metal Door<br>ANSI A250.4 Level A Physical Endurance Levels of Doors & Frames<br>ANSI A250.6 Recommended Practice for Hardware Reinforcing<br>ANSI A250.8/SDI 100 Specifications for Standard Steel Doors & Frames<br>ANSI A250.10 Test Procedure & Acceptance Criteria for Prime Painted Steel |                      |
| <b>Size</b>               | Maximum Size: 5'-0" X 10'-0" Nominal<br>Actual Width = Nominal - 1/4"<br>Actual Height = Nominal - 3/4" (5/8" undercut)  |                      |
| <b>Core</b>               | 22 Gauge (0.026 min) Stiffeners Spot Welded to Face Sheets<br>Additional Gauge Options Available Upon Request<br>Stiffeners Are Equally Spaced With 6" Between Each Set<br>12 LB Density Mineral Fiber Between Stiffeners  |                      |
| <b>Face Skin Options</b>  | 18 Gauge (0.042 min) - ANSI A250.8/SDI 100 Level 2 (Standard Duty)<br>16 Gauge (0.053 min) - ANSI A250.8/SDI 100 Level 3 (Heavy Duty)<br>14 Gauge (0.067 min) - ANSI A250.8/SDI 100 Level 4 (Extra Heavy Duty)   |                      |
| <b>Material Type</b>      | Cold Rolled Steel - ASTM A1008<br>A60 Galvannealed - ASTM A653<br>G90 Galvanized - ASTM A653 (not recommended)   |                      |
| <b>Edge Type</b>          | Bevel Hinge & Lock Edge - 1/8" over 2" (Standard)<br>Square Edge (optional)  |                      |
| <b>Edge Seam</b>          | Seamless - Bondo (Standard) - ANSI A250.8/SDI 100 Model 2<br>Seamless - Continuous Welded (Optional) - ANSI A250.8/SDI 100 Model 2<br>Open Seam (Optional) - ANSI A250.8/SDI 100 Model 1   |                      |
| <b>Top Channel</b>        | 16 Gauge (0.053 min)<br>Inverted (standard), flush (optional), water tight seal (optional)<br>Projection Welded  |                      |
| <b>Bottom Channel</b>     | 16 Gauge (0.053 min)<br>Inverted (standard), flush (optional)<br>Projection Welded<br>Weep Hole Provided   |                      |
| <b>STC Rating</b>         | STC 41-45<br>Consult <b>Tech 403</b> for Additional Data   |                      |
| <b>Fire Rating</b>        | Up To 3-Hour (consult label section)<br>Maximum Size: 4'-0" X 10'-0" Nominal<br>UL 10C, UL 9, UL 1784  |                      |
| <b>Thermal Values</b>     | Flush 18 Gauge Door - R-Value = 1.75, U-Factor = 0.57<br>Flush 16 Gauge Door - R-Value = 1.71, U-Factor = 0.58<br>Flush 14 Gauge Door - R-Value = 1.78, U-Factor = 0.56<br>ASTM C1363, ASTM E1423, ASTM EC1199, SDI 113  |                      |
| <b>Warranty</b>           | One Year (365 days) from the date of delivery  |                      |
| <b>Endurance</b>          | ANSI A250.4 Test Procedure & Acceptance Criteria for Steel Doors & Frames<br>Tested by Intertek Testing Services - Report #3195456MID-002<br>Passed for Level A - One Million Cycles   |                      |
| <b>Reinforcements</b>     | 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)  |

