STEEL STIFFENED DOORS

Steel Stiffened Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

**Thickness** - 1-3/4” (14 gage = 1-13/16” + 1/16”)

**Actual Door Size** - Door undersized from nominal by 1/4” in width and 7/8” in height. Standard undercut is 3/4”.

**Hinge Rail & Reinforcement** - Hinge edge is non-beveled and is reinforced with a continuous 16 or 10 gage steel channel projection welded at a maximum 5” on center.

**Lock Rail** - Lock edge is non-beveled and reinforced with a continuous 16 or 14 gage steel channel projection welded at a maximum 5” on center. (Option - Beveled 1/8” in 2”)

**Top Channel** - Top Channel is a flush 16 or 14 gage channel, projection welded at a maximum 2-1/2” on center.

**Bottom Channel** - Bottom Channel is an inverted 16 gage steel channel, projection welded at a maximum 2-1/2” on center.

**Cores Available** - Steel Stiffened, with fiberglass batting/mineral wool between each stiffener "U" Factor = 0.61 “R” Factor = 1.65 per ASTM C1363 (optional - Polystyrene or polyurethane between stiffeners)

**Stiffener Gages & Size** - 20 gage standard (optional - 18 or 16 gage) - 4” wide

**Stiffener Spacing** - Maximum 6” apart (Varies according to door width)

**Stiffener Welding** - 5” maximum on centers. (Vertically)

**Face Skins** - 18, 16 or 14 gage (cold rolled steel or A60 galvannealed) *G90 Galvanized available in 16 or 14 gage only.

**Closer Reinforcement (Option)** - 14 gage standard / 12 gage optional. (18” x 6”)

**Size Availability** - Minimum 2’0” x 2’0”, Maximum 5’0” x 10’0” (Over 4’0” must be 16 or 14 gage)

**SDI 100 Level/Model** - Level 2 Models 1 or 2 (Heavy Duty minimum 18 gage, hollow steel)
Level 3 Model 1 or 2 (Extra Heavy duty minimum 16 gage, hollow steel)
Level 4 Models 1 or 2

**Label Range** - Consult Label Section for Fire Ratings.

**Edge Seam Construction** - Visible seam (standard), continuously welded seamless or intermittently welded seamless available

**Universal Standard/Heavy Weight Hinge** - Hinge fillers are used, allowing for an easy modification from heavy weight to standard weight hinge prep.

**Handing Design** - Non-Handed standard (Handed optional)
STEEL STIFFENED DOOR CONSTRUCTION DETAILS

Revised 9/14

NOTE:
See Details on back of page.

Continuous Lock Channel

16, 18 or 20 Gage Steel Stiffeners

Top Channel

Closer Reinforcement when specified

Continuous Hinge Channel

Bottom Channel
**DOOR BOTTOM**

Approximate depth 9/16".

- Steel Panel

**Continuous Hinge Channel**

Shown: 4-1/12” or 5” full mortise template hinges on 1-3/4”

**Continuous lock channel**

16 gage mortise lock reinforcement with provisions for Gov’t Series 86 mortise lockset and ANSI A115.1 lock front (1-1/4” x 8”)

**Fiber Glass Batts**

(Density 1.5
R-Factor 1.65
U-Factor 0.61)

or Mineral Wool
Per ASTM C1363

16 gage steel cylindrical lock reinforcement with provisions for Gov’t Series 160 or 161 cylindrical lock sets (2-3/4” backset) and ANSI A115.2 lock front (1-1/8” x 2-1/4”)

Lever Lock Prep - 161 DT (Modified 161 Prep) Conforms with the ANSI 115.18 161 lever lock specifications.

WARNING: Use rose trim with a minimum diameter of 3-5/16” to cover prep.

**20 gage (standard), Vertical Stiffener (4" wide)**

(optional- 18 or 16 gage)

16 or 14 gage top channel (standard flush)

When closer reinforcement requested 14 gage standard / 12 gage optional

Steel Panel

16 gage bottom channel (standard inverted)