



SD-400 FEMA FRAME SPECIFICATIONS

I. 400 Series Mitered Frames have been tested or adhere to the criteria set forth by the following published standards:

- A. ANSI A250.8-1998 (SDI 100) - Recommended Specifications -Standard Steel Doors & Frames; Steel Door Institute.
- B. SDI 111 - Recommended Standard Details - Steel Doors & Frames.
- C. SDI 112-97 - Zinc Coated Standard Steel Doors and Frames.
- D. SDI 113-79 - Test Procedure and Acceptance Criteria for Acoustical Performance for Steel Door and Frame Assemblies.
- E. ASTM 366/A 366M - Standard Specification for Steel, Sheet, Carbon, and High Strength, Low Alloy, Hot Rolled and Cold Rolled, General Requirements.
- F. ASTM A 568/A 568M - Standard Specification for Steel, Sheet, Carbon and High Strength, Low-Alloy, Hot Rolled and Cold Rolled, General Requirements.
- G. ASTM A 569/A 569M - Standard Steel Specification for Steel, Carbon (0.15 Maximum Percent), Hot Rolled Sheet and Strip Commercial Quality.
- H. ASTM 591/A 591M - Standard Steel Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Mass Applications.
- I. ASTM 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanized) by Hot Dipped Process.
- J. NFPA 80 - Standard for Fire Doors and Windows.
- K. A250.4 1994 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcements.

II. Frame Construction

- A. Frames shall be formed from 14 gage cold-rolled, hot-rolled or galvanized steel.
- B. Frames shall have corners welded and ground smooth.
- C. Frames shall be provided with 9/32" silencer preparation, (3) per strike jamb and (2) per head for double openings, for field application after finish painting.
- D. Frames shall have 10 gage steel universal hinge tap plate, projection welded, with provisions for 4-1/2" x 4-1/2" template hinges, and 12 gage steel strike reinforcement plate, projection welded, with provision for Universal ANSI A115.1 or ANSI A115.2 strike. Mortar guards of 26 gage steel shall be welded to each hinge or strike reinforcing plate.
- E. Reinforcement for surface closer shall be 12 gage steel. Proper reinforcement shall be provided for other hardware when required.



STORMDEFEND

STORM SHELTERS, DOORS & ACCESSORIES
BY PROTECTIVE STRUCTURES

III. Frame Finish

- A. Frames will be cleaned and phosphatized with one coat of force-cured primer, that meets or exceeds ANSI A224.1-1990 and ASTM specification B117 for finishes. (Capable of passing 120 hour salt spray test and a 240 hour humidity test in compliance with ASTM D1735.

