SECTION 081313 – HOLLOW METAL DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Steel Doors

1.2 RELATED SECTIONS

A. Section 08 12 13 Hollow Metal Frames.
B. Section 08 14 16 Flush Wood Doors.
C. Section 08 71 00 Door Hardware.
D. Section 09 91 00 Painting.

1.3 REFERENCES

A. ANSI A117.1 Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People.
B. ANSI/SDI 100 Standard Steel Doors and Frames.
C. ASTM A525 Steel Sheet, Zinc Coated (Galvanized) by the Hot Dip Process.
D. Door Hardware Institute (DHI) The Installation of Commercial Steel Doors and Steel Frames, Insulated Steel Doors in Wood Frames and Builder's Hardware.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 33 00.
B. Shop Drawings: Indicate door elevations, internal reinforcement, closure method, cutouts for glazing and finish.
C. Product Data: Indicate door configurations, location of cut outs for hardware reinforcement.
D. Manufacturer's Installation Instructions: Indicate special installation instructions.
E. Doors installed in exterior openings: Manufacturer's shall provide certification signed and sealed by a structural engineer licensed in Texas that the exterior metal door and frame assemblies (including removable mullions and hardware) meet or exceed the minimum positive and negative wind pressures as determined & documented by the Structural Engineer of Record.

1.5 QUALITY ASSURANCE

A. Conform to requirements of ANSI/SDI 100 and ANSI A117.1.
B. Maintain one copy of each document on site.

1.6 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, protect, and handle products to site under provisions of Section 01 60 00.
B. Accept doors on site in manufacturer's packaging. Inspect for damage.
C. Break seal on site to permit ventilation.

1.8 FIELD MEASUREMENTS

A. Verify that field measurements are as indicated on shop drawings.

1.9 COORDINATION

A. Coordinate work under provisions of Section 01 31 00.
B. Coordinate the work with door opening construction, door frame and door hardware installation.

PART 2 – PRODUCTS

2.1 DOORS

A. Exterior Insulated Doors (Non-thermally Broken): SDI 100 Grade 2 Model 1. Heavy duty 16 gauge.
B. Interior Doors (Fire Rated): SDI-100 Grade I Model 1. 90 min. rated.

2.2 DOOR CONSTRUCTION

A. Face: Galvanized steel sheet in accordance with ANSI/SDI 100; 16 gauge for exterior and interior doors.
B. Core: Cardboard honeycomb.

2.3 FABRICATION

A. Fabricate doors with hardware reinforcement welded in place.
B. Close top and bottom edge of exterior doors with inverted steel channel flush end closure. Seal joints watertight.
C. Configure exterior doors with special profile to receive recessed weather-stripping.

2.4 FINISH

A. Steel Sheet: Galvanized to G90 for exterior doors. G60 for interior doors.
B. Primer: Baked.
C. Finish: Field painted in colors to be selected.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify substrate conditions under provisions of Section 01 45 00.
B. Verify that opening sizes and tolerances are acceptable.

3.2 INSTALLATION

A. Install doors in accordance with ANSI/SDI 100 and DHI.
D. Coordinate installation of doors with installation of frames specified in Section 08 12 13 and hardware specified in Section 08 71 00.

3.3 ERECTION TOLERANCES

A. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.4 ADJUSTING

A. Adjust work under provisions of Section 01 70 00.
B. Adjust door for smooth and balanced door movement.

END OF SECTION 081313