DIVISION 8 - DOORS & WINDOWS

SECTION 08 36 13 - SECTIONAL DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Sectional overhead doors, operating hardware, door controls and operators, in-place.

1.2 REFERENCES

A. ANSI A216.1 - Sectional Overhead Type Door - NAGDM 103.

B. ASTM A227 - Hard Drawn Spring Wire.

C. ASTM A229 - Oil Tempered Spring Wire.

D. ASTM A525 - General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot Dip Process.

E. ASTM A526 - Steel Sheet, Zinc-Coated (Galvanized) by the Hot Dip Process, Commercial Quality.

F. ASTM E330 - Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.

1.3 SUBMITTALS

A. Sectional Door Data Sheets

B. Operator Data Sheets

1.4 DESIGN REQUIREMENTS

A. Design assemblies to withstand wind pressures, as required at the place where the project is located.

1.5 WARRANTY

A. In accordance with the General Conditions of the Construction Contract.

PART 2 PRODUCTS

2.1 UNITS

A. Where interior temperatures are +45F or above; doors shall be “Thermospan Model 150” by Wayne Dalton or “Thermacore Sectional Steel Doors 591” by Overhead Door Corporation.

2.2 MATERIALS

A. Sheet Steel: ASTM A526 galvanized to G60 minimum; pre-painted with manufacturer's standard prime and finish coats.

B. Panels: Door panel sections are to be double-faced, 26 ga. minimum, galvanized steel with galvanized steel ends and, when required, interior galvanized steel strut reinforcement.

Interior and exterior face sheets shall be separated by a rigid vinyl thermal break. Doors to have weather tight seals between sections, sides, top and bottom.

C. Insulation: Foamed-in-place polyurethane; nominal 2 pcf density, flame spread of 75 or less, and smoke developed as allowed by the governing code.

D. Glass Fiber Sheet: Translucent, glass fibers bonded in polyester resin with polyvinyl chloride film coating in the manufacturer's standard thickness.

1. When specifically scheduled, as for Truck Garage doors, doors are to have translucent fiberglass facings.

E. Hardware: All door hardware shall be heavy-duty galvanized steel; track rollers shall be ball-bearing type. Track shall be 3” with high/vertical lift configuration, unless otherwise noted. Tracks shall be one-piece. Torsion springs shall be 25,000 cycle springs. Doors shall have inside latching with padlock feature. Door lower panel shall have an interior bottom "step" accessory feature for foot-closing. Manual doors shall have door pull down rope, located on the side of the door adjacent to the dock leveler controls.

F. Vision Panel: Unless specifically shown otherwise on drawings, doors shall have double glazed view panels. See Architectural Drawings for layout.

G. Operators: Doors shall have manufacturer's power operation option, "job-rated" for this installation. Operation speed shall be a minimum of 12” per second. Doors shall have bottom safety edge. Motor voltage shall be 460V/3Ph/60Hz.

1. Operator installation position must be carefully considered, and clearly shown on shop drawings; space may be critical at the interior wall face due to requirements for other equipment.

H. Controls: Provide push-button controls and wiring diagrams to the Electrical subcontractor for installation.

1. Dock doors shall have two-button control stations, mounted below the motor operator, unless the Electrical Drawings show the door being operated by a master dock equipment control panel.

2. Doors, not at dock positions, shall be provided with 3-button (open-close-stop) stations, mounted on the interior side of the building.

I. Limit Switches: Dock doors shall be provided with upper and lower limit switches, including additional contacts, as necessary for communication with operator and dock equipment. See Section 111319 for additional information.

PART 3 EXECUTION

3.1 EXAMINATION

A. This subcontractor shall verify all dimensions of doors, openings, framing, etc. in the field prior to fabrication of the door, jambs and heads.

3.2 INSTALLATION

A. All Work shall be installed in accordance with manufacturer’s requirements and approved shop drawings.

B. The Structural and Architectural Drawings have attempted to provide support for tracks, torsion springs and motor operators. This subcontractor is responsible for providing any additional mounting supports not shown on the Drawings. Additional steel for motor operator or torsion spring support shall be hot-rolled steel angles, painted finish. Additional track supports shall be cold-formed unistrut with a galvanized finish.

C. Units shall be tested, and adjusted as required, for smooth and proper operation.

D. Doors shall be given a final adjustment for smooth operation and tight sealing after all elements are in place (i.e. dock equipment installed).

E. Care shall be exercised to protect unit finish, and to prevent damage to adjacent surfaces.

3.3 FINISH

A. After installation, areas where finish has been damaged shall be touched-up.

3.4 CLEANUP

A. All work shall be left clean and undamaged.

END OF SECTION