

SECTION 08360 - SECTIONAL DOORS**350S Series Insulated Steel Sectional Doors****PART 1 – GENERAL****1.01 RELATED DOCUMENTS**

- A. All of the Contract Documents, including General and Supplementary Conditions, and Division 1 General Requirements, apply to the work of this Section.

1.02 SUMMARY

- A. The work of this Section includes upward-acting sectional doors.
 B. Related Sections: Other specification sections which directly relate to the work of this section include, but are not limited to, the following:
 1. Section 05500 - Miscellaneous Metal; metal framing and supports.
 2. Section 08710 - Finish Hardware; key cylinders for locks.
 3. Section 09900 - Painting; field painting.
 4. Section 16100 - Electrical; wiring.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each type of sectional door. Include both published data and any specific data prepared for this project.
 B. Shop Drawings: Submit shop drawings for approval prior to fabrication. Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Sectional doors shall be manufactured by a firm with a minimum of five years' experience in the fabrication and installation of sectional doors. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified, and include a list of five projects of similar design and complexity completed within the past five years.
 B. Installer: Installation of sectional doors shall be performed by the authorized representative of the manufacturer.
 C. Single-Source Responsibility: Provide doors, tracks and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.
 D. Pre-Installation Conference: Schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

PART 2 – PRODUCTS**2.01 ACCEPTABLE MANUFACTURER**

- A. Provide sectional doors by Hörmann LLC, Sparta, Tennessee; Telephone 877-654-6762 or 630-859-3000; Fax 630-859-8122.

2.02 STEEL SECTIONAL DOORS

- A. Trade Reference: 350S Series Insulated Steel Doors by Hörmann LLC.
 B. Sectional Door Assembly: Insulated steel door assembly with tongue and groove meeting rails to form weather tight joints and provide full-width interlocking structural rigidity. Units shall have the following characteristics
 1. Panel Thickness: 2"
 2. Exterior Surface: Short Raised (traditional), Microgroove or flush
 3. Section Joint: Sections to form a weather tight tongue and groove fit.
 4. Material: G-40 galvanized steel, complying with ASTM A-929, A-653, exterior and interior skins bonded with high quality silicone based adhesive that adheres to polystyrene core.
 5. Exterior Skin: Minimum 25 gauge exterior steel face sheet.
 6. Interior Skin: 27 gauge interior steel face sheet with stucco texture. Color: white, brown, sandstone or metallic silver.
 7. End Caps: 20 gauge galvanized steel primed with white baked-on polyester top coat.
 8. Standard Springs: 10,000 cycles. (Higher cycles available)
 9. Insulation: HCFC-free Polystyrene, R-value 10.4
 10. Partial Glazing of Steel Panels: (Insulated or non-insulated double strength glass available.) (Not Required.)
 11. Full Glazing Requiring Aluminum Sash Panels: (Acrylic glazing.) (1/8" double strength glass.) (Insulated double strength glass.) (Not Required.)
 C. Finish and Color: Factory-applied baked-on White, Brown, Sandstone. Black or Metallic Silver polyester.
 D. Wind load Design: ANSI/DASMA 108 and 115 standards and as required by code.
 Hardware: 14 Gauge galvanized steel hinge assembly and fixtures. Ball bearing rollers with hardened steel races.
 Lock: Interior mounted slide lock. (Keyed lock.)
 Weather-stripping: Flexible PVC on bottom section. (Header seal and jamb weather-stripping.)
 Track: Provide track as recommended by manufacturer to suit loading required and clearances available. Note: Select type of operation
 E. Manual Operation: Manual pull rope. (Chain hoist.)
 F. Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
 1. Entrapment Protection: (Pneumatic sensing edge up to 18' wide) (Electric sensing edge.) (Photoelectric sensors.)
 2. Operator Controls: (Pushbutton) (Key) (Pushbutton and key) operated control stations with open, close, and stop buttons for (flush) (surface) mounting, for (interior) (exterior) (both interior and exterior) location. Note: Select from below as applicable
 3. Special Operation: (Pull-rope release automatic opening device, vehicle detector operation, radio control operation, card reader control, photocell operation, door timer operation, commercial light package, explosion and dust ignition proof control wiring.)

PART 3 – EXECUTION**3.01 PREPARATION**

- A. Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
 B. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.03 ADJUSTING AND CLEANING

- A. Test sectional doors for proper operation and adjust as necessary to provide proper operation without binding or distortion.
 B. Touchup damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.