

PART I – GENERAL**WORK SPECIFIED HEREIN**

- This section includes insulated, high-impact sectional overhead doors and accessories for complete installation. **This is a Required Vendor.**

SUBMITTALS

- Unless otherwise noted, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.
- Review of submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.

Operating and Maintenance Data: For door, optional operator and accessories.

QUALITY ASSURANCE

- Manufacturer Qualifications: Provide each sectional overhead door as a complete unit produced by a single manufacturer, including frames, sections, brackets, guides, tracks, counterbalance mechanisms, and hardware.
- Inserts and Anchorages: Furnish inserts and anchoring devices that must be set, anchored or built into concrete or masonry; or drilled and tapped or welded to structural steel.
- Installer Qualification: Door manufacturer or trained, approved and licensed door installer.

WARRANTIES

- One-year performance warranty on door panel and side weatherseals.
- One-year warranty on entire door system against defects in material or workmanship.

PART II – PRODUCTS**MANUFACTURERS**

- Refer to Materials and Product Schedule on Drawings for Additional Information.

DOOR SECTIONS

- Sectional Door Assembly: Insulated steel door assembly with rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity. Units shall have the following characteristics:
 - Panel thickness: 2"
 - Exterior Surface: Ribbed
 - Steel: Minimum 24 gauge galvanized exterior, back cover 26 gauge steel.
 - Center and End Stiles: 16 gauge.
 - Standard Springs: 25,000 cycles.
 - Insulation: HCFC-free Polystyrene, R-Value 7.35.
- Finish and Color: Factory-applied baked-on white polyester.
- Windload Design: ANSI/ASMA 102 standards and as required by code.
- Door Viewer: Provide one (1) 180° door viewer mounted in center of door at 60" A. F. F.

TRACKS, SUPPORTS AND ACCESSORIES

- Tracks: Provide track as recommended by manufacturer to suit loading required. Door hardware to ride in channel. Tracks to be securely mounted flush with door jamb to maintain full opening width. Tracks systems that reduce door opening width will not be accepted.

- Weather Seal: Provide of continuous extruded loop of low-friction urethane coated PVC weatherseal along both vertical edges of the door panel. Provided one extruded loop of PVC weatherseal extending the full width of the door opening as a bottom seal. Loop weatherseals to be attached to panel edge capping for installation and removal and shall be rated for low temperature exposure. Provide 2" horizontal lintel brush seal securely attached to door lintel to seal tightly against uppermost door section when door is in a closed position. Side weatherseals to be removed from potential impact when door is in full open position. Weatherseals attached to the door track or frame will not be accepted.

HARDWARE

- General: Provide heavy-duty, rust-resistant hardware with galvanized steel hinges and fixtures.
- Hinges: High strength flat panel hinges constructed from 12-gauge steel attached to door panels with four bolts per hinge. Hinges to be connected with removable pin and clip for quick installation and removal of door panels. High tensile strength to allow cable attachment to upper door panels removing cables from impact zone.
- Locking: Manufacturer's standard slide lock with padlock provision

COUNTERBALANCE

- Torsion Spring: Operation by torsion-spring counterbalance consisting of adjustable-tension, tempered-steel torsion springs mounted on a cross header steel shaft. Connect to top of upper door sections on straight vertical and hi-lift doors with galvanized aircraft-type lift cables. Provide springs calibrated for 15,000 cycle minimum.
- Provide cast-aluminum or gray-iron casting cable drums, grooved to receive cable. Mount counterbalance mechanism with manufacturer's standard ball-bearing brackets at each end of shaft. Provide one additional midpoint bracket to support shafts unless alternate brackets and spacing are recommended by door manufacturer.

PART III – EXECUTION**EXAMINATION**

Verify installation conditions as satisfactory to receive work of this section. Do not install until unsatisfactory conditions are corrected. Beginning work constitutes acceptance of conditions as satisfactory.

- Verify precise opening size, dimensions, tolerances and obstructions.

PREPARATION

- Protect surrounding areas and surfaces to prevent damage during work of this section.

INSTALLATION

- General: Install door, track and operating equipment complete with necessary hardware, anchors, inserts, hangers and equipment supports according to manufacturer's recommendations and instructions and as specified.
- Fasten track assembly to framing as specified in manufacturer's installation manual. Provide sway bracing, diagonal bracing, and reinforcing as required for rigid installation of track and door opening equipment.
- After completing installation, including work by other trades, test and adjust doors to operate easily, free from warp, twist or distortion,

fitting weather-tight and knockout as detailed in manufacturer's standard performance specifications.

CLEANING

Leave the premises clean and free of residue of work of this section.

END OF SECTION