The Genuine. The Original.

SECTION 083613
SECTIONAL STEEL DOORS
MODELS 416, 420, 424, 430

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Upward acting sectional steel doors.

1.02 RELATED REQUIREMENTS

A. Section **<< 079200 - Joint Sealants>>**: Sealing joints between frames and adjacent construction.

B. Section **<< 087100 - Door Hardware>>**: Lock cylinders.

C. Section **<< 260533.13 - Conduit for Electrical Systems>>**: Conduit from electric circuit to operator and from operator to control station, and empty conduit from control units to door operator.

D. Section **<< 260583 - Wiring Connections>>**.

1.03 REFERENCE STANDARDS

A. ITS (DIR) - Directory of Listed Products; Current Edition.

B. UL (DIR) - Online Certifications Directory; Current Edition.

C. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's standard literature showing materials and details of construction and finish.**<< Include data on electrical operation.; or None - N/A>>**

B. Shop Drawings: Indicate rough and actual opening dimensions, anchorage methods, hardware locations, and installation details.

C. Manufacturer's Installation Instructions: Indicate installation sequence and installation, adjustment, and alignment procedures.

D. Installer's qualification statement.

E. Operation and Maintenance Data: Indicate modes of operation, lubrication requirements and frequency, and periodic adjustments required.

F. Specimen warranty.

1.05 WARRANTY

A. Manufacturer Warranty: Provide manufacturer warranty for counterbalance shaft assembly for years indicated under individual doors. Complete forms in **<<Owner>>**'s name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Overhead Door Corporation; www.overheaddoor.com; 1 (800) 929-3667.

B. Substitutions: Not permitted.

2.02 UPWARD ACTING SECTIONAL STEEL DOORS

A. Sectional Steel Doors: Overhead Door Corporation; **<< Model 416; Model 420; Model 424; or Model 430>>**.

1. Panels: Steel construction with exterior sheet.

2. Width: **<< _____ feet _____ inches (_____ m)>>**.

3. Height: **<< _____ feet _____ inch (_____ m)>>**.
4. Mounting: Surface mounted on interior of building.
5. Opening Speed: Door to operate at variable speed of **<< 6 to 12 inches (152 to 305 mm)>>** per second.
6. Closing Speed: Door to operate at variable speed of **<< 6 to 12 inches (152 to 305 mm)>>** per second.

7. Operation Cycles: Capable of operating for minimum **<< 10,000; 25,000; 50,000; 75,000; or 100,000>>** cycles. One operation cycle is complete when door is opened from closed position to fully open position and returned to closed position.
8. Available Warranty:
   a. Door Only: One year.
9. Panel Material:

   a. Exterior Steel Thickness: **<< 16 gauge, 0.0635 inch (1.613 mm); 20 gauge, 0.0336 inch (0.853 mm); 24 gauge, 0.0216 inch (0.549 mm); or 26 gauge, 0.0187 inch (0.475 mm)>>** galvanized steel.
   b. Panel Thickness: **<< 2 inches (51 mm)>>**.
   c. Joint Profile: Shiplap.
   d. Section Height: Manufacturer's standard based on door height.

e. Exterior Surface Profile: **<< Flush; or Ribbed>>**.

f. Lites: **<< Not required; Aluminum sash section lites with double strength billet (DSB) glazing; or Insulated double strength billet (DSB) vision lites>>**.

1) Glazing: **<< 1/8 inch (3 mm) double strength billet glass; 1/2 inch (13 mm) double strength billet glass; 1/8 inch (3 mm) tempered double strength billet glass; 1/4 inch (6 mm) tempered double strength billet glass; 1/2 inch (13 mm) tempered double strength billet glass; 1/8 inch (3 mm) acrylic; 1/4 inch (6 mm) acrylic; 1/2 inch (13 mm) acrylic; 1/8 inch (3 mm) polycarbonate; 1/4 inch (6 mm) polycarbonate; 1/2 inch (13 mm) polycarbonate; or 1/4 inch (6 mm) wired glass>>**.

g. Exterior Finish: **<< White smooth; Brown smooth; or Powder coat smooth>>**.

10. Locking Options to Include: **<< None; Slide lock; or Cylinder>>**.
    a. Lock Locations: **<< Both jambs; Left only; or Right only>>**.
11. Weatherstripping and Seals: **<< Required; or Not required>>**.
12. Tracks: Constructed of steel with members fully bolted together.
    a. Size: **<< 2 inches (51 mm); or 3 inches (76 mm)>>**.
    b. Finish: Galvanized steel.
13. End Stiles: **<< 16 gauge, 0.0635 inch (1.613 mm)>>** galvanized steel.
14. Intermediate Stiles: **<< 16 gauge, 0.0635 inch (1.613 mm)>>** galvanized steel.
15. Brackets: Steel to support counterbalance and curtain.
    a. Finish: Hot-dip galvanized.
16. Springs: Rated for **<< 10,000; 25,000; 50,000; 75,000; or 100,000>>** cycles.
17. Manual Operation: **<< Push-up; or Chain hoist>>**.
18. Motor Operation: Provide UL-listed electric operator; size as recommended by manufacturer to move door in either direction at minimum **<< 6 inches (152 mm)>>**, maximum **<< 12 inches (305 mm)>>** per second.
    a. Timer to Close: **<< Not required; or Automatic closing controlled by adjustable hold-open time delay>>**.

b. Operation Supply Voltage: **<< 115/208/230V 1 phase 60Hz; 208/230/460V 3 phase 60Hz; 575V 3 phase 60Hz; 220V 1 phase 50Hz; 220V 3 phase 50Hz; or 400V 3 phase 50Hz>>**.
c. Signaling Device: **<< Horn and strobe combination; or Traffic warning light>>**.
d. Actuation Device: Provide **<< push button; key switch; pull cord; loop detector; motion detector; treadle switch; and radio control>>**.
e. Motor Mounting: **<< Wall mounted; or Trolley>>**, **<< right-hand side; left-hand side; or center>>**.
f. Motor Enclosure: **<< Not required; NEMA 4-12 watertight and oiltight; NEMA 4X corrosion-resistant; Totally enclosed, fan-cooled motor; or Totally enclosed, non-ventilated>>**.
g. Obstruction Safety Detection: Infrared sensor mounted in-plane to door curtain at greater than or equal to **<< 6 inches (152 mm)>>** from floor.
h. Reversing Safety Edge: **<< Not required; Door provided with wireless monitored electric safety edge; or Door provided with wired monitored electric safety edge>>**.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

B. Verify electric power is available and meets manufacturer's requirements.

3.02 PREPARATION

A. Prepare opening to permit correct installation of door unit to perimeter air and vapor barrier seal.

B. Apply primer to wood frame.

3.03 INSTALLATION

A. Install door unit assembly in accordance with manufacturer's instructions.

B. Anchor assembly to wall construction and building framing without distortion or stress.

C. Securely brace door tracks suspended from structure. Secure tracks to structural members only.

D. Fit and align door assembly including hardware.

E. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

F. Install **<< perimeter trim; closures; and _____>>**.

3.04 TOLERANCES

A. Maximum Variation from Plumb: **<< 1/16 inch (1.5 mm); or ___ inch (___ mm)>>**.

B. Maximum Variation from Level: **<< 1/16 inch (1.5 mm); or ___ inch (___ mm)>>**.

C. Longitudinal or Diagonal Warp: Plus or minus **<< 1/8 inch in 10 feet (3 mm in 3 m); or _____ inch in 10 feet (_____ mm in 3 m)>>** straight edge.

D. Maintain dimensional tolerances and alignment with adjacent work.

3.05 ADJUSTING

A. Adjust door assembly for smooth operation and full contact with weatherstripping.

B. Confirm operation is in accordance with manufacturer's instructions with present field representative. Identify adjustments to door assembly.

3.06 CLEANING

A. See Section **<< 017000 - Execution and Closeout Requirements>>** for additional requirements.

B. Clean doors and frames**<< and glazing; _____; or None - N/A>>**.

C. Remove**<< temporary; _____; or None - N/A>>** labels and visible markings.

3.07 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

B. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

END OF SECTION