SECTION 08361

STEEL SECTIONAL OVERHEAD DOORS

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PART 1- GENERAL

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- A. Section Includes:
 - 1. [Manually] [Electrically] operated steel sectional overhead doors.
 - Operating hardware, controls, and supports.
- B. Related Sections:
 - 1. Division 1: Administrative, procedural, and temporary work requirements.
 - 2. Section [09910 Paints:] [:] Field painting of doors.
 - 3. Section [] []: Connection to power supply and control devices.

1.2 REFERENCES

A. ASTM International (ASTM) A653/A653M-03 - Standard Specification for Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

1.3 SYSTEM DESCRIPTION

- A. Design doors to withstand:
 - 1. Positive and negative design wind loads [in accordance with Building Code.] [of [] PSF.]
 - 2. Cycle life of [10,000] [25,000] [50,000] [100,000] [] cycles.
- B. Operation: [Electric.] [Manual.] [Chain hoist.]
- C. Track and Operating Hardware: [Standard lift] [Vertical lift] [High lift] [Roof pitch] [Low headroom] type.

1.4 SUBMITTALS

- A. Submittals for Review:
 - 1. Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
 - 2. Product Data: Provide information on component construction, anchorage method, and hardware.
- B. Closeout Submittals:
 - Operation and Maintenance Data.
- C. Sustainable Design Submittals:
 - 1. Recycled products: Indicate percentage of recycled material used in manufacture of products, and percentage classified as post consumer.
 - 2. Regional products: Indicate location of product manufacturer and distance from manufacturer to project site.

1.5 WARRANTIES

A. Provide manufacturer's one year warranty against defects in materials and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on Model 3250 by C.H.I. Overhead Doors.

B.	Substitutions: Under provisions of [Section [].] [Division 1.]
	**** OR ****

C. Substitutions: Not permitted.

2.2 MATERIALS

- A. Galvanized Steel Sheet:
 - 1. ASTM A653/A653M, Structural Quality, G60 coating class.
 - 2. Recycled content: Minimum [75] [__] percent, with minimum [40] [__] percent classified as post consumer.
- B. Glazing: Clear [1/8 inch float glass] [1/4 inch tempered glass.] [1/8 inch polycarbonate sheet.] [insulating glass.]

2.3 COMPONENTS

- A. Door Sections:
 - Type: Deep ribbed, pan style.
 - 2. Material: Galvanized steel.
 - 3. Gauge: 25.
 - 4. Thickness: Nominally 2 inches.
 - 5. Rails: Tongue-and-groove.
- 6. End caps: Wrap-around box style, 18 Gauge galvanized steel, full height of section, riveted to inside rails and face of door.
 - 7. Vision lites:
 - a. Rectangular, [6 x 24] [12 x 24] [16 x 34] inches, set with silicone sealant and screws.
 - b. Pattern: [__] wide x [__] high, [centered.] [left side looking out.] [right side looking out.]

**** OR ****

- 8. Glazed section: Full view type, aluminum framed.
- 9. Exhaust ports: Aluminum, with hinged cover.
- B. Tracks:
 - 1. 2 inches wide, roll-formed galvanized steel, 16 Gauge for doors up to 10 feet high, 14 Gauge for doors exceeding 10 feet high.

**** OR ****

- 2. 3 inches wide, roll-formed 13 Gauge galvanized steel, with galvanized steel mounting brackets.
- 3. Lower track sections adjustable for weathertight fit.
- 4. Horizontal tracks reinforced with minimum 13 Gauge galvanized steel angle according to door weight and size.
- C. Hinge and Roller Assemblies: Heavy duty hinges and adjustable roller holders of galvanized steel, with floating hardened steel bearing rollers, located at top and bottom of each panel, each side.
- D. Spring Counterbalance:
 - 1. Oil tempered torsion springs mounted on cross-header shaft supported by galvanized steel ball bearing end plates and center carrier brackets as required.
 - 2. Counterbalance transferred to doors via aircraft quality braided steel lift cables.
- E. Bottom Weatherstripping: Vinyl weatherseal, full width of door.
- F. Head and Jamb Weatherstripping: Flexible one piece vinyl extrusions.

- G. Lock: [Inside slide] [Outside keyed T-handle] [Outside cylinder] type, adjustable keeper, spring activated.
- H. Electric Operator:
 - 1. Power supply: [115 VAC, single phase.] [220 VAC, [single] [three] phase.] [440-480 VAC, three phase.]
 - 2. Sufficient power to operate door at average speed of 12 inches per second.
 - 3. Disconnect for [manual push-up] [chain hoist] operation in case of power failure.
 - 4. Control station: [24 VDC;] [115 VAC;] [push button] [keyed switch] station marked [OPEN and CLOSE.] [OPEN, CLOSE, and STOP.] [Furnish [four] [__] keys per station.]
- I. Safety Device: [Photoelectric sensor; detect obstruction and reverse door without requiring door to contact obstruction.] [Electric pneumatic edge; detect obstruction and reverse door upon contact with pneumatic hose.] [Electric edge; detect obstruction and reverse door upon contact with electric strips in vinyl housing.] [Electric edge; fail-safe, self monitoring.]
- J. Finish:
 - Exterior panel surfaces: Baked-on enamel primer and polyester finish coat, [____] color [to be selected from manufacturer's standards.] [Powder Coated Finish [RAL] [Custom Powder Coat Color].
 - 2. Interior panel surfaces: Baked-on polyester primer.

PART 3- EXECUTION

3.1 INSTALLATION

- A. Install door assembly in accordance with manufacturer's instructions.
- B. Anchor to adjacent construction 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, level and plumb, to provide smooth operation.
- E. Position head and jamb weatherstripping to contact door sections when closed; secure in position.
- F. Make wiring connections between power supply and operator and between operator and controls.

3.2 ADJUSTING

A. Adjust to operate smoothly throughout full operating range.

END OF SECTION