

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
FIRE STATION #10
2745 LAKESHORE VISTA BLVD
SLIDELL, LA 70461

SECTION 083600

SECTIONAL OVERHEAD DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Insulated Sectional Overhead Doors.
- B. Electric Operators and Controls.
- C. Operating Hardware, tracks, and support.

1.2 REFERENCES

- A. ANSI/DASMA 102 - American National Standard Specifications for Sectional Overhead Type Doors.

1.3 DESIGN / PERFORMANCE REQUIREMENTS

- A. Wind Loads: Design and size components to withstand loads caused by pressure and suction of wind acting normal to plane of wall as calculated in accordance with applicable code.

- 1. Design pressure of 46 lb/sq ft

- B. Wiring Connections: Requirements for electrical characteristics.

- 1. 115 volts, single phase, 60 Hz.

- C. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.4 SUBMITTALS

- A. Submit under provisions of Section 013300.

- B. Product Data: Manufacturer's data sheets on each product to be used, including:

- 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

- C. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.

- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

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E. Operation and Maintenance Data.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.

B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.

C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened labeled packaging until ready for installation.

B. Protect materials from exposure to moisture until ready for installation.

C. Store materials in a dry, ventilated weathertight location.

1.7 PROJECT CONDITIONS

A. Pre-Installation Conference: 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.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Overhead Door Corp

B. Subject to compliance with requirements, provide products by Clopay or comparable product by one of the following:

- a. Overhead Door Company
- b. Ranar
- c. C.H.I. Overhead Doors

2.2 INSULATED SECTIONAL OVERHEAD DOORS

A. Insulated Steel Sectional Overhead Doors: Basis of design shall be Model 3720 W6 Insulated Steel Doors by Clopay Building Products. Units shall have the following characteristics:

1. Door Assembly: Insulated steel door assembly with rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity.

a. Panel Thickness: 2 inches (51 mm).

b. Exterior Surface: Flush.

c. Exterior Steel: 24 gauge, hot-dip galvanized.

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d. Back Cover:

- 1) 26 gauge steel.
- 2) Poly-Backed.
- 3) High Impact Polystyrene Backcover.

e. Center and End Stiles: 16 gauge steel.

f. Springs:

- 1) 10,000 cycles.

g. Insulation: Polystyrene.

h. Thermal Values:

- 1) Polystyrene - R-value of 7.35; U-value of 0.136.

i. Full Glazed Aluminum Sash Panels:

- 1) ¼" Impact Lexan double pane glass.
- 2) 3 each 24" x 12" lites per section and 3 sections with glazing.
2. Finish and Color: Two coat baked-on polyester with white exterior and white interior color.
3. Windload Design: Provide to meet the Design/Performance requirements specified.
4. Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.

5. Weatherstripping:

- a. Flexible bulb-type strip at bottom section.
- b. Flexible Jamb seals.
- c. Flexible Header seal.

6. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.

7. 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. Operator shall meet UL325/2010 requirements for continuous monitoring of safety devices.

a. Entrapment Protection: Required for momentary contact, includes radio control operation.

- 1) Photocell sending device.

b. Operator Controls:

- 1) Push-button operated control stations with open, close, and stop buttons.
- 2) Surface mounting.
- 3) Exterior location.

c. Special Operation:

- 1) Radio control operation. One per door.

2.3 SECTIONAL STEEL OVERHEAD DOORS

A. Sectional Overhead Steel Doors: 416 Series Steel Doors by Overhead Door Corporation. Units shall have the following characteristics:

1. Door Assembly: Steel door assembly with rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity.

- a. Panel Thickness: 2 inches (51 mm).
- b. Exterior Surface: Flush.
- c. Section Material: 16 gauge, galvanized steel.
- d. Center and End Stiles: 16 gauge steel.
- e. Springs:
 - 1) 10,000 cycles.

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f. Knockout Lower Door Sections:

1) Provide with optional knock-out lower door section. Lower two sections are Knock & Lock breakaway sections comprised of two sub-sections which can deflect in either direction when impacted. Exterior is 1/8 inch (3 mm) thick reinforced extruded polymer. Interior is a finished ABS backskin. Lower sections insulated with polystyrene insulation with extruded aluminum end caps.

1) Panel Thickness: 1-3/4 inches (44 mm).

2) Exterior Surface: Flush, Textured.

3) Thermal Values: R-value of 8.56; U-value of 0.17.

2. Finish and Color: Two coat baked-on polyester, white color. Field paint color to be selected by Architect.

3. Windload Design: Provide to meet the Design/Performance requirements specified.

4. Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.

5. Lock:

a. Interior mounted slide lock.

b. Locking mechanism designed to maintain security for exterior while permitting break out when impacted from the inside.

6. Weatherstripping:

a. Flexible bulb-type strip at bottom section.

b. Flexible Jamb seals.

c. Flexible Header seal.

7. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.

8. Manual Operation: Pull rope.

9. Manual Operation: Chain hoist.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until openings have been properly prepared.

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

C. Verify electric power is available and of correct characteristics.

D. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

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3.3 INSTALLATION

- A. Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions.
- B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- C. Anchor assembly to wall construction and building framing without distortion or stress.
- D. Securely brace door tracks suspended from structure. Secure tracks to structural members only.
- E. Fit and align door assembly including hardware.
- F. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

3.4 CLEANING AND ADJUSTING

- A. Adjust door assembly to smooth operation and in full contact with weatherstripping.
- B. Clean doors, frames and glass.
- C. Remove temporary labels and visible markings.

3.5 PROTECTION

- A. Do not permit construction traffic through overhead door openings after adjustment and cleaning.
- B. Protect installed products until completion of project.
- C. Touch-up, damaged coatings and finishes and repair minor damage before Substantial Completion.

END OF SECTION 083600