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SECTION 08 36 13
SECTIONAL GLASS & ALUMINUM OVERHEAD DOORS
ArmRLite: TIMBRLITE MODEL

SPECIFIER NOTES should appear in **Blue**

PART 1 GENERAL

ATTN SPECIFIER: delete items below not required for project

1.1 SECTION INCLUDES

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

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1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete: Prepared opening in concrete. Execution requirements for placement of anchors in concrete wall construction.
- B. Section 04810 - Unit Masonry Assemblies: Prepared opening in masonry. Execution requirements for placement of anchors in masonry wall construction.
- C. Section 05500 - Metal Fabrications: Steel frame and supports.
- D. Section 06114 - Wood Blocking and Curbing: Rough wood framing and blocking for door opening.
- E. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.
- F. Section 08710 - Door Hardware: Cylinder locks.
- G. Section 09900 - Paints and Coatings: Field painting.
- H. Section 11150 – Parking Control Equipment: Remote door control.
- I. Section 16130 - Raceway and Boxes: Empty conduit from control station to door operator.
- J. Section 16150 - Wiring Connections: Electrical service to door operator.

1.3 REFERENCES

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

1.4 DESIGN / PERFORMANCE REQUIREMENTS

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- 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 _____ lb/sq ft

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- B. Wiring Connections: Requirements for electrical characteristics.



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1. 115 volts, single phase, 60 Hz
2. 230 volts, single phase, 60 Hz
3. 230 volts, three phase, 60 Hz
4. 460 volts, three phase, 60 Hz

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- C. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- D. Operation and Maintenance Data.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum (20) years documented experience.
- B. Installer Qualifications: Authorized representative of the manufacturer with minimum (10) years approved by manufacturer.

1.7 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.

1.8 WARRANTY

- A. 20-year welded aluminum frame warranty. (Except on top sections when trolley operated.) Standard one year warranty applies to the rest of the door (track, spring, hardware.)

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- A. Finish Warranty:
 1. 20-year warranty finish for clear anodized, dark bronze anodized, or black anodized finish, except on installations within 1 mile of salt water
 2. 1-year warranty finish for standard RAL Powdercoat, except on installations within 1 mile of salt water
 3. 20-year warranty finish for custom Architectural Fluropon® finish, except on installations within 1 mile of salt water

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: For purposes of designating type and quality of work under this Section, Drawings and Specifications are based on products manufactured or Furnished by ARMRLITE DOOR MANUFACTURING CO. Toll Free: 800-554-5816 P:908-754-2600 ext 4016 Shannon McGrady F: 908-754-6522 email: smcgrady@armrlite.com W: www.armrlite.com.

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- B. Registered WBE-Women owned business enterprise.
- C. Substitutions: Not permitted.
- D. Requests for substitutions will be considered in accordance with provisions of section _____

2.2 GLAZED ALUMINUM SECTIONAL OVERHEAD DOORS

- A. Glazed Sectional Overhead Doors: TIMBRLITE MODEL by ArmRLite Door Manufacturing Co., Inc. Units shall have the following characteristics:
 - 1. Door Assembly: Stile and rail assembly secured with concealed heli-arch welds. Through rods, bolts, and self-tapping screw construction methods will not be accepted
 - a. Panel Thickness: 1-3/4 inches
 - b. Center Stile Width: 3-3/8 inches
 - c. End Stile Width:

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- 1) 3-3/8 inches
- 2) 4-1/2 inches
- 3) 7-1/2 inches
- d. Meeting Rail Pair Width: 3-3/8 inches wide per pair
- e. Top Rail Width:

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- 1) 2-3/4 inches
- 2) 4-1/2 inches
- 3) 7-1/2 inches
- f. Bottom Rail Width:

ATTN SPECIFIER: delete items below not required for project

- 1) 4-1/2 inches
- 2) 7-1/2 inches
- g. Aluminum Panels

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- 1) .050 inch, non-insulated aluminum panels
- 2) .5 inch insulated aluminum panels
- 3) Custom infill panels as selected by architect
- h. Stiles and Rails to be constructed of 4-sided .075 - .085 extruded 6063 - T6 aluminum alloy.

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- 1) Energy Efficiency Package: Polyurethane expanding foam filled insulated rails and stiles with water resistant feature. Not water proof.
- 2) Acoustical Package: Polyurethane foam to fill all 4-sided tubular extrusions. To be used with acoustical glass.
- i. Springs:

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- 1) 10,000 cycles
- 2) 25,000 cycles
- 3) 50,000 cycles
- 4) 75,000 cycles
- 5) 100,000 cycles

- j. TimbRLite Panels

ATTN SPECIFIER: delete items below not required for project. Please consult our our Architectural Liaison Department for extended glass options beyond what is listed below. P: 908-754-2600

- 1) Espresso
- 2) Geode



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- 3) Sterling
- 4) Cinnamon
- 5) Sun Burst
- 6) Walnut
- 7) Copper
- 8) Bronze
- 9) Ember

k. Glazing:

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- 1) 1/8 inch non-insulated glass units
- 2) 1/4 inch non-insulated glass units
- 3) 1/4 inch non-insulated laminate units
- 4) 7/16 inch insulated glass units
- 5) 7/16 inch insulated glass units with _____ low E coating
- 6) 5/8 inch insulated glass units
- 7) 5/8 inch insulated glass units with _____ low E coating
- 8) 1 inch insulated glass units
- 9) 1 inch insulated glass units with _____ low E coating
- 10) STC 35 acoustical glass units
- 11) 5/8 inch impact resistant 3-wall polycarbonate (clear, frosted, or bronze)
- 12) 1 inch impact resistant 7-wall polycarbonate (clear, frosted, or bronze)
- 13) Laminated glazing with large missile impact tested Safelx® interlayer

2. Finish and Color:

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- a. Anodized Finish: clear anodized
- b. Anodized Finish: dark bronze anodized
- c. Anodized Finish: black anodized
- d. Powdercoating Finish: color as selected by architect from manufacturer's standard RAL colors
- e. Metallic Architectural Fluropon® Finish: color as selected by architect off of available color chart or custom matched per architects supplied sample.
- f. Non-Metallic Architectural Fluropon® Finish: color as selected by architect off of available color chart or custom matched per architects supplied sample

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- 3. Windload Design: Provide to meet the Design/Performance requirements specified.
- 4. Hardware: All hinges and fixtures made of 14 gauge galvanized steel. Full floating, ball bearing rollers to have hardened steel races and roller sizes to be adequate for design requirements and limitations. Heavy-duty, fully adjustable roller brackets are attached to each end cap to provide an easy adjustment of the door to the job for proper seal. All hardware is heavy-duty and rust resistant with galvanized fasteners.

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- a. Stainless Steel Corrosion Resistant Package: Stainless steel track, face hardware, and cables for high moisture or corrosive environment.
- b. Powdercoat Corrosion Resistant Package: Powdercoated track and face hardware to provide added corrosion resistance to galvanized steel.
- 5. Lock: Interior galvanized single unit.
- 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.

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- a. Low Headroom Track
- b. Standard Lift Track
- c. High lift Track
- d. Full Vertical Lift Track
- e. Roof Pitch Track

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- 8. Manual Operation: pull rope
- 9. Manual Operation: chain hoist
- 10. Electric Motor Operation: provide electric operator, size and type as recommended by manufacturer.
 - a. Entrapment Protection: Required for momentary contact, includes radio control operation.
 - b. Operator Controls:
 - 1) Push-button operated control stations with open, close, and stop buttons.
- 11. High Performance Electric Motor Operation: Arm-R-Speed high performance electric operator. 18" – 25" per second open/close speed. Subject to weight and headroom limitations; please consult ArmRLite prior to specifying

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that all openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- B. Beginning of installation means acceptance of existing surfaces.

3.2 PREPARATION

- A. Prepare opening to permit correct installation of door unit.

3.3 INSTALLATION

- A. Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions. Framing and opening preparation per submitted shops is the responsibility of the general contractor and not the sectional door installer.
- 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. Secure tracks to structural members only.
- E. Fit and align door assembly including hardware, level and plumb, to provide smooth operation.
- F. Install perimeter trim and closures

3.4 TOLERANCES

- A. Maintain dimensional tolerances and alignment with adjacent work
- B. Maximum variation from plumb: 1/8 inch
- C. Maximum variation from level: 1/8 inch



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D. Longitudinal or diagonal warp: plus or minus 1/8 inch from 10 ft. straight edge

3.5 CLEANING AND ADJUSTING

A. Clean doors, frames and glass.

3.6 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 08 36 13