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**SECTION 08 36 13**  
**SECTIONAL GLASS & ALUMINUM OVERHEAD DOORS**  
**ArmRLite: TITAN™ MODEL w/ ADA pass Door**

**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.

**ATTN SPECIFIER: delete items below not required for project**

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

**ATTN SPECIFIER: delete items below not required for project**

- A. Wiring Connections: Requirements for electrical characteristics.
  - 1. 115 volts, single phase, 60 Hz
  - 2. 230 volts, single phase, 60 Hz
  - 3. 230 volts, three phase, 60 Hz



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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.)
- B. 5-year welded aluminum frame warranty on pass door sections. (Except on top sections when trolley operated.)

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- C. Finish Warranty:
  1. 20-year warranty finish for clear anodize, 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 Fluoropon® 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](mailto:smcgrady@armrlite.com) W: [www.armrlite.com](http://www.armrlite.com).

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- B. Registered WBE-Women owned business enterprise.
- C. Substitutions: Not permitted.

## 2.2 GLAZED ALUMINUM SECTIONAL OVERHEAD DOORS

- A. Glazed Sectional Overhead Doors: TITAN™ 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:
    - 1) 7-1/2 inches
  - d. Meeting Rail Pair Width: 3-3/8 inches wide per pair
  - e. Top Rail Width:
    - 1) 4-1/2 inches
  - f. Bottom Rail Width:
    - 1) 4-1/2 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.
- i. ADA Compliant Pass Door: includes threshold and closer. Pass door is located in center of door, swing out only:

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- 1) ADA pass door to contain 1/8" tempered glass (clear, frosted, or tinted) with 10" kick plate on bottom panel.
- 2) ADA pass door to contain multi-wall polycarbonate glazing with horizontal fluting (clear, frosted, or tinted)
- 3) ADA pass door to contain solid, non-insulated panels
- 4) ADA pass door to contain solid, insulated panels.
- 5) 5 year welded frame warranty on pass door sections, except top section when trolley operated
- 6) Hardware:

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- (a) Standard hardware with exterior handle and interior thumb turn latch and exterior cylinder lock.
- (b) Custom panic hardware as required by code

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- 7) Energy Efficiency Package: Polyurethane expanding foam filled insulated rails and stiles with water resistant feature. Polystyrene insulation will not be accepted.

- j. 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

- k. Glazing:



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**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 E:info@armrlite.com.**

- 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
3. 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.
4. Lock: Interior galvanized single unit.
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.

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- a. Standard Lift Track (*24" of headroom minimum for doors up to 10' wide*)
- b. High lift Track (*Minimum 36" headroom required*)
- c. Full Vertical Lift Track (*Required for doors up to 14' wide*)

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7. Electric Motor Operation: provide jackshaft electric operator, size and type as recommended by manufacturer.
- a. Entrapment Protection: Required for momentary contact, includes radio control operation.
  - b. Pass Door Interlock Switch
  - c. Operator Controls:



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- 1) Push-button operated control stations with open, close, and stop buttons.

### **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. General Contractor to prepare opening per Arm-R-Lite shop drawings. All steel reinforcing or wood blocking for track, springs and operator mounting by General Contractor.

#### **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. 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
- 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.



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**END OF SECTION 08 36 13**