

SECTION 08360

SECTIONAL OVERHEAD DOORS

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Aluminum Doors
- B. Track and Framing

1.2 RELATED SECTIONS

- A. Section 04810 - Unit Masonry Assemblies: Prepared opening in masonry.
- B. Section 05500 – Metal Fabrications: - Steel framed door openings.
- C. Section 06100 – Rough Carpentry: Wood framing and blocking for door opening.
- D. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.
- E. Section 08710 - Door Hardware: Cylinder locks.
- F. Section 11150 - Parking Control Equipment: Remote door control.
- G. Division 16 Sections: Electrical service and connections for powered operators.

1.3 REFERENCES

- A. ASTM A 653/A 653M – Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. ASTM B 209/209M – Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- C. ASTM B 221/221M – Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.
- D. ANSI/DASMA 102-2011.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- 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.

4. Operation and maintenance data.
  5. Nameplate data and ratings for motors.
- C. Shop Drawings: Include opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
  - D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
  - E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- 1.5 WIND PERFORMANCE REQUIREMENTS
- A. Design doors to withstand positive and negative wind loads as calculated in accordance with applicable governing building codes.
- 1.6 QUALITY ASSURANCE
- A. Manufacturer Qualifications: Company specializing in manufacturing the types of doors specified in this section with minimum five years documented experience.
  - B. Installer Qualifications: Installation to be by qualified dealer in accordance with the manufacturer's installation instructions.
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Store products in manufacturer's unopened packaging until ready for installation.
- 1.8 PROJECT CONDITIONS
- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- 1.9 WARRANTY
- A. 1-year limited warranty on materials and workmanship.
  - B. 5-year limited warranty on finish.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: ASSA ABLOY Entrance Systems; 165 Carriage Court, Winston-Salem, NC 27105. ASD. Tel: (844) 232-4676. Email: [us.garagedoors@assaabloy.com](mailto:us.garagedoors@assaabloy.com)  
Website: [www.assaabloyentrance.us](http://www.assaabloyentrance.us).
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### 2.2 OVERHEAD DOORS - GENERAL

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- A. Provide each door with door sections, brackets, tracks, counterbalance mechanisms and hardware to suit the opening and headroom available.
- B. Hardware:
  - 1. Minimum of 14 gauge galvanized steel hinges and 13 gauge galvanized steel track brackets.
  - 2. Rollers have 10 ball bearings with casehardened inner and outer races.
  - 3. Sliding end stile locking device provided with spring-loaded bolt for inside operation only.
  - 4. Doors 16 feet 4 inches (5102 mm) and wider provided with double end hinges and stiles and long stem rollers.
- C. Track: 2 inches (51 mm) or 3 inches (76 mm) as required.
- D.
  - 1. Vertical Track:
    - a. 2 inch vertical track 17 or 19-gauge minimum galvanized steel, inclined using adjustable brackets to assure weather tight closure at the jambs.
    - b. 3 inch vertical tapered track 12-gauge minimum galvanized steel inclined using adjustable tapered reverse angle to assure a weather tight closure at the jambs.
  - 2. Horizontal tracks
    - a. 2 inch 16-gauge minimum galvanized steel, reinforced with 13-gauge galvanized steel angles as required by door size and weight.
    - b. 3 inch 12-gauge minimum galvanized steel, reinforced with 11-gauge galvanized steel angles
  - 3. Provide standard lift track as indicated.
  - 4. Provide vertical lift track as indicated.
  - 5. Provide high lift track as indicated.
  - 6. Provide follow-the- roof-pitch tracks as indicated.
  - 7. Provide low headroom tracks as indicated.
- E. Spring Counterbalance: Torsion springs for door counter-balance mounted on a continuous cross header shaft. Springs to be oil tempered, helical wound and custom computed for each door. Cable drums to be die cast aluminum. Galvanized lift cable to provide minimum safety factor of five to one. Springs to comply with ANSI/DASMA 102-2011 as follows:
  - 1. Standard Cycle Spring: 10,000 cycles.
  - 2. High Cycle Spring: 25,000 cycles.
  - 3. High Cycle Spring: 50,000 cycles.
  - 4. High Cycle Spring: 100,000 cycles.
- F. Handle: Galvanized steel step plate/lift handle provided on inside and outside of bottom section.
- G. Lock: Standard interior sliding end stile lock with hole to receive padlock.
- H. Weather stripping: Perimeter seal for header and jambs.
- I. Mounting: Continuous reverse angle mounting for steel jambs.
- J. Mounting: Bracket mounting for wood jambs.

### 2.3 ALUMINUM DOORS

- A. ASSA ABLOY Holden HO1000 residential aluminum MultiView door.

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1. Door Size: As indicated on the Drawings.
2. Door Sections: 2 inches (51 mm) thick.
  - a. Rails and stiles extruded from 6063-T6 aluminum to produce a door thickness of 2 inches (51 mm).
  - b. Center stiles to be 2-3/4 inches (70 mm).
  - c. End stiles to be 3-3/8 inches (86 mm).
  - d. Horizontal Center rail to be 2-3/4 inches (70 mm).
  - e. Top rails to be 3-7/8 inches (98 mm)
  - f. Intermediate rails to be 3-3/4 inches (95 mm) per pair.
  - g. Bottom rails to be 3-7/8 inches (98 mm).
  - h. All center stiles and rails to be secured with 5/16 inch (8 mm) diameter through rods.
  - i. All end stiles and rails to be secured with 5/16 inch (8 mm) diameter lag bolts
3. Standard Door Finish Options:
  - a. All aluminum rails and stiles to be a Class 1 clear anodized finish.
  - b. All aluminum rails and stiles to be a Class 1 dark bronze anodized finish.
  - c. All aluminum rails and stiles to be a Class 1 black anodized finish.
  - d. All aluminum rails and stiles to be a white powder coat finish.
  - e. All aluminum rails and stiles to be custom high performance paint comprised of at least 50% PVDF (Specifier to color code, description or RAL color number and description here) fluoropolymer that meets AAMA 2604 minimum standards.
    - 1) Aluminum glazing bead
  - f. All aluminum rails and stiles to be custom powder coat (Specifier to add RAL color number and description here) color that meets AAMA 2604 minimum standards.
4. Glazing Panels
  - a. Glazed Panels: 3/16 inch (4.8 mm) Tempered glass panels.
  - b. Glazed Panels: 1/2 inch (12.7 mm) overall insulated double pane 1/8" (3.2 mm) Tempered glass panels.
  - c. Custom Glazed Panels in 3/16", 1/4" or 1/2" thickness:
    - 1) Add custom panel specification here
5. Glazing Bead
  - a. Glazing Panels in standard finish options sealed with glazing tape and matching aluminum glazing bead.
  - b. Glazing Panels in custom finish options sealed with glazing tape and matching aluminum glazing bead.
6. Operation
  - a. Manual Operation: Pull rope.
  - b. Manual Operation: Chain hoist.
  - c. Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer. Operator shall meet UL325-2010 requirements for continuous monitoring of safety devices.

## 2.4 FABRICATION

### A. Aluminum Doors.

1. Standard Maximum Width: ASSA ABLOY Holden HO1000
  - a. 20 feet 2 inches (6.2m) widths for doors with 3/16" glass panels.
  - b. 20 feet 2 inches wide (6.2m) for doors with 1/2" insulated double pane glass panels.
2. Aluminum struts (truss bars): Provide struts that do not block the viewable area of glazed panels on all ASSA ABLOY Holden HO1000 doors 16 feet 0 inches (4.9m) and

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- wider to prevent deflection of no more than 1/120 of the spanned width when in the open position.
3. Standard Maximum Height: ASSA ABLOY Holden HO1000
    - a. 16 feet 1 inch (4.9m) height.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare opening to permit correct installation of door unit to perimeter air and vapor barrier seal.

### 3.3 INSTALLATION

- B. Install in accordance with manufacturer's instructions. Doors to be interior face mounted on a prepared surface.
- C. Anchor assembly to wall construction and building framing without distortion.
- D. Securely brace door tracks suspended from structure. Secure tracks to structural members or solid backing only.
- E. Fit and align door assembly, tracks and operating hardware.
- F. Install perimeter weatherstripping.
- G. Adjust door assembly to smooth operation and in full contact with weatherstripping.

### 3.4 CLEANING

- A. Clean doors, frames and glass.
- H. Remove labels and visible markings.

### 3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

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