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SECTION 08 17 00

INTEGRATED DOOR OPENING ASSEMBLIES

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide integrated door assemblies including frames, doors, operating hardware, and accessories as required for complete operational installation.
- B. Related Sections:
  - 1. Division 26: Electrical rough-in, wiring and connections for electro-magnetic door holders; smoke detectors.

1.2 SUBMITTALS

- A. Product Data: Furnish manufacturer's literature including listing of primary components of total door assembly including door, frame, and hardware.
- B. Shop Drawings: Indicate each door and frame condition; frame type, profile and installation detail; items of finish hardware, finishes and electrical rough-in requirements.
- C. Samples: Submit door and hardware finish samples.

1.3 QUALITY ASSURANCE

- A. Sustainability Requirements: Comply with CALGreen requirements including those relative to finish material pollution control for adhesives, composite wood products formaldehyde limitations, and paints and coatings.

**PART 2 - PRODUCTS**

2.1 SYSTEMS MANUFACTURERS

- A. Total Door, an Openings Co.
- B. Adams Rite Manufacturing Co./The Rite Door.
- C. Substitutions: Refer to Section 01 25 00.

2.2 MATERIALS

- A. System Description: Provide integrated door assemblies including frames, doors, operating hardware, and accessories.

- B. Regulatory Requirements: Provide system tested and approved for fire rated application at elevator lobby applications in accordance with applicable codes.
  - 1. Fire Rating: Minimum 20-minute fire rating for total assembly unless otherwise indicated on Drawings or Door Schedules.
  - 2. Tests: Performed and listed by Underwriters Laboratory, Warnock Hersey, or other independent testing laboratory acceptable to applicable code authorities.
- C. Integrated Door Assembly: Total door, frame, and hardware assembly with push plate type panic locking mechanism, and smoke seals, roller leveled, electro-galvanized and bonderized steel faces.
- D. Door: Manufacturer's standard hollow metal door construction; conform to Steel Door Institute (SDI) Standards.
  - 1. Gage: Not less than 16-gage.
- E. Frames: Conform to Steel Door Institute (SDI) Standards 100 and 111A for steel door frames all-welded unit type with ASTM A1008 cold rolled steel, not less than 16-gage.
  - 1. Reinforce for closers with 12-gage reinforcing plates. Provide suitable adjustable type anchors spaced at maximum 2'-0" intervals.
- F. Hardware: Manufacturer's standard hardware for application indicated and as specified.
  - 1. Latchset: Function 01 with flush push plate and pull grip.
  - 2. Closers: Track type with special template for concealed mounting when door is in open position.
  - 3. Electro-Magnetic Door Holders: Wall type, proper projection to hold door at required degree of opening.

## 2.3 FABRICATION

- A. Construct smoke door assemblies to manufacturer's published specifications and applicable Code requirements, except where more stringent requirements are included in Contract Documents.
- B. Verify dimensions and field conditions before commencing fabrication; do not unnecessarily delay Project, allow for field cutting and fitting where necessary and where approved by Architect.
  - 1. Notify Architect where field dimensions are at variance with those of reviewed shop drawings.
  - 2. Corrective measures are subject to Architect approval prior to commencing fabrication.

- C. Coordinate door assembly details with details of adjacent work to assure proper attachments, clean junctions, and proper operation.
- D. Furnish welded frames with removable spreader bar at sill.

## **2.4 FINISHES**

- A. Frames: Factory prime painted for field applied finish; coordinate primer with finish coats specified in Section 09 90 00 – Painting and Coating.
- B. Door Faces: Factory prime painted for field applied finish; coordinate primer with finish coats specified in Section 09 90 00 – Painting and Coating.
- C. Hardware:
  - 1. Latch Plates/Pull Grips: Manufacturer's standard units as approved by Architect; match building hardware finish specified in Section 08 71 00 – Door Hardware.
  - 2. Closers and Electro-Magnetic Door Holders: Manufacturer's standard units concealed when door is in hold-open position.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Prior to commencing installation of work, examine parts of the building structure which are to receive the assemblies or component parts.
- B. Starting work implies acceptance of surfaces as satisfactory.

### **3.2 INSTALLATION**

- A. Install work in accordance with SDI, UL and door manufacturer's instructions, using trained and experienced crews.
- B. Set frames plumb and square and brace until adjacent wall or finish is constructed and securely anchored.
  - 1. Furnish clips, fastenings and anchorages necessary for complete, operable door installation; conceal clips, fastenings and anchorages unless otherwise approved by Architect.
- C. Hang doors and adjust to freely swinging operation without binding, sticking, sagging or excessive clearances.
- D. Drill and tap reinforcing plates for installation of closers.
- E. Where practical, properly fit hardware items and then remove until completion of field painting work.
- F. When installation is otherwise complete, adjust operating hardware for proper operation and function.

### **END OF SECTION**