



Manufacturers Proprietary Specification

**SPECIFIER NOTE:** This specification should be reviewed by Dynamic Closures as listed in Section 2 .1 below prior to using for construction purposes.

**SECTION: 08 33 00**  
**COILING DOORS AND GRILLES**

**PART 1 GENERAL**

1.1 SUMMARY

- A. Section Includes:
  - 1. Manual push-up [strap] [crank] [electric motor operated] overhead rolling doors.
  - 2. Operating hardware [, controls,] and supports.
  
- B. Related Sections:
  - 1. 05500 Metal fabrications; door jamb and header.
  - 2. 06100 Rough carpentry; door jamb and header.
  - 3. 08310 Access doors and panels.
  - 4. 08710 Door hardware; keyed mortise cylinders
  - 5. Division 16; all miscellaneous wiring for electric motors and accessories.

1.2 REFERENCES

- A. ASTM International (ASTM) B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.3 SUBMITTALS

- A. Submittals for Review:
  - 1. Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
  - 2. Product Data: Provide information on door construction, components, materials, and finishes.
  
- B. Sustainable Design/LEED Submittals: Documentation of recycled content and location of manufacturer.
  - 1. LEED, MR Credit 4 – Recycled Content: Provide documentation for cost of products having recycled content indicating percentages by weight of postconsumer plus 1/2 of the pre-consumer content.
  - 2. LEED, MR Credit 5 – Regional Materials: Provide documentation for cost of materials or products that have been extracted, harvested, or recovered and also manufactured within 500 miles of project site.
  
- C. Closeout Submittals:
  - 1. Operation and Maintenance Data.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum of three years experience in the fabrication and installation of Coiling Doors and Grilles.
  
- B. Installer Qualifications: Authorized representative of the manufacturer.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Reference Section 01660 Product Storage and Handling Requirements.

- B. Deliver materials in labeled protective packages. Store and handle in compliance with manufacturer's instructions.

## 1.6 WARRANTIES

- A. Provide manufacturer's 2 year warranty against defects in materials and workmanship.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Contract Documents are based on products by Dynamic Closures Corporation. ([www.dynamicclosures.com](http://www.dynamicclosures.com)) Telephone: 1-800-663-4599; Fax: 1-800-205-6665  
E-mail: [CustomerService@DynamicClosures.com](mailto:CustomerService@DynamicClosures.com)
- B. Equivalent products by the following manufacturers are acceptable:
  - 1. CHI Overhead Doors. ([www.chiohd.com](http://www.chiohd.com))
- C. Substitutions: [Under provisions of Division 01.] [Not permitted.]

### 2.2 MATERIALS

- A. Aluminum Extrusions: ASTM B221, 6063-T5 or T6 alloy and temper.

### 2.3 COMPONENTS

- A. LEX Curtain:
  - 1. Horizontal Slats: Extruded single wall polycarbonate curved slats. Slat width shall be 2.5 inches (63.5 mm) high and extruded of 1/8 inch (3 mm) thick wall. Slats are assembled into a curtain by extruded aluminum connectors 5/8 (16 mm) by 3/8 (9 mm) inch wide.
- B. Bottom Bar: Double-walled extruded aluminum with polypropylene felt weather-stripping on bottom to seal for light and sound.
- C. Hood and Fascia: 18 gauge (.040) thickness preformed sheet aluminum.
- D. Guides: : Extruded aluminum 2-3/8 inch (59mm) by 1-1/8 inch (29mm) fitted with two rows of polypropylene felt weather stripping for quiet operation and to cushion both sides of curtain.
- E. Counterbalance: Helical torsion spring assembly set in roll formed galvanized steel pipe of recommended size by manufacturer to support curtain with a maximum deflection of .03 inch (.8mm) per foot (305mm) of curtain width.
- F. Bracket Plates: Minimum 3/16 inch (5mm) thick die cast aluminum to support counterbalance assembly, curtain and hood.
- G. Operation:
  - 1. Manual push-up.  
Or
  - 2. Hand crank from coil side of curtain.  
Or
  - 3. Strap operation from secure side of curtain.  
Or
  - 4. Electric Motor: Tubular motor, size recommended by manufacturer.
    - a. Keyed control stations: Constant contact operation, flush mounted one or both sides of curtain for secure operation.
- H. Lock: Located on bottom bar; [slide locks on secured side of curtain.] [Keyed cylinder centered [interior] [exterior]].
- I. Finish-Exposed Aluminum Parts: Clear anodized

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. Install door assembly in accordance with manufacturer's instructions.
- B. Follow approved shop drawings.
- C. Fit and align grille assembly including hardware, level and plumb, to provide smooth operation.

### 3.2 ADJUSTING/MAINTENANCE

- A. Test Operation of door and adjust to provide smooth and proper operation.
- B. Clean exposed surfaces using manufacturers recommended cleanser.

END OF SECTION

PART 2