

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 26
COILING DOORS AND GRILLES

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Manual push-up [crank] [chain hoist] [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 grille 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 preconsumer 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) Telephone: 1-800-663-4599; Fax: 800-205-6665 E-mail: CustomerService@DynamicClosures.com
- B. Equivalent products by the following manufacturers are acceptable:
 - 1. CHI Overhead Doors. (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. Lift Ready Portcullis Curtain:
 - 1. 5/16 inch (8mm) diameter extruded aluminum rods spaced 1-3/4 (45mm) inches on center vertically by 1/8 x 5/8 x 4-1/4 inch (3 x 16 x 108mm) aluminum links horizontally spaced 9 inches (229mm) on center and covered by 1/2 inch (13mm) aluminum spacer tubes on every other rod.
 - 2. Pattern: Straight.
- B. Bottom Bar: Tubular aluminum extrusion with bottom [astragal], [ceiling conceal
- C. Hood: [None] Fascia: [None] Minimum 26 gage [aluminum] [steel].
- D. Guides: Extruded aluminum, 3 x 1-1/2 inches (76mm x 38mm) with shoulders for curtain retention, fitted with vinyl stripping both sides of curtain.
- E. Counterbalance: Aluminum barrel with enclosed helical torsion spring with grease sealed ball bearings or self-lubricating graphite bearings for rotating members, sized to grille weight with maximum deflection of 0.03 inch (0.8mm) per foot (305mm) of width.
- F. Bracket Plates: 3/8 inch (10mm) thick by 15 inch (381mm) front-loading off-set steel plate. Finish: grey metallic powder-coat paint.
- G. Operation:
 - 1. Manual push-up.
Or
 - 2. Hand crank from coil side of curtain.
Or
 - 1. Chain hoist from coil side of curtain.
Or
 - 4. Electric Operator:
 - a. Externally mounted on drive side.
 - b. Sufficient power to operate grille at 12 inches (305mm) per second.
 - c. Manually disconnect to make operable in case of power failure.
 - d. Electrical characteristics: [115] [208] [230] [460] VAC; [single] [3] phase.

- e. Control station: 24 volt; constant contact [push button] [keyed switch] station mounted [interior][exterior] [both interior/exterior]. [Furnish [two] [] keys per station.]
- f. Emergency release device: [none] Interior [surface] [recess]-mounted wall handle.
- g. Four-wire electric sensing edge: [none] [wired/coil cord] [wired/reel] [wireless] connection.

H. Lock: Note: All thumb turn locking on grilles require protection rod pattern.

- 1. Interior: [none] [thumb turn] [keyed cylinder]
- 2. Exterior: [none] [keyed cylinder]
- 3. Locking for more than one Grille/Closure [not applicable][keyed alike] [keyed random]
- 4. Key type: [not applicable] [key to section 087100] [manufacturers standard cylinder

acceptable]

I. Support Note: Telescoping tubes maximum height 8 feet (2438mm) above clear opening height.

- 1. Steel tube: 3 x 3 x 1/8 inch (76 x 76 x 3mm) x 24 feet (7315mm) unpainted.
Or
- 2. Steel angle 2 x 3 x 1/4 inch (51 x 76 x 6mm) x required length unpainted.
Or
- 3. Aluminum double/single wall angle 3 x 2-1/2 inch (76 x 64mm) x required length clear anodized
Or
- 4. Aluminum telescoping tube 3 x 2-1/2 inch (76 x 64mm) mill finish w/integral steel U channel.

J. Finishes: Clear anodized is standard finish on curtain, bottom bar and guides.

- 1. Curtain/BB/Guides: Anodized, [clear.] [champagne] [light bronze] [bronze] [black] color.]
- 2. Hood and Fascia:[not applicable] [clear anodized aluminum] [painted steel [grey] brown] white]]

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install grille 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