



SECTION 08333
SECURITY GRILLES
677 SERIES LEXGARD SIDE FOLDING GRILLE

Display hidden notes to specifier by using 'Tools'/'Options'/'View'/'Hidden Text'. On newer versions of Microsoft Word click on round Windows logo in top left corner, Click on 'Word Options' button at bottom of drop down menu. Click on 'Display' on left menu bar, and check the box for 'Hidden Text'.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Side Folding Security Grilles, manually operated.

1.2 RELATED SECTIONS

- A. Section 05500 - Metal Fabrications: Support framing and framed opening.
- B. Section 06200 - Finish Carpentry: Wood jamb and head trim.
- C. Section 08332 - Overhead Coiling Counter Doors.
- D. Section 08710 - Door Hardware: Product Requirements for cylinder core and keys.
- E. Section 16130 - Raceway and Boxes: Conduit from electric circuit to grille operator and from grille operator to control station.
- F. Section 16150 - Wiring Connections: Power to disconnect.

1.3 REFERENCES

- A. [ASTM A 653](#) - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. [ASTM A 666](#) - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- C. [ASTM A 924](#) - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- D. [ASTM B 221](#) - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- E. [NEMA 250](#) - Enclosures for Electrical Equipment (1000 Volts Maximum).
- F. [NEMA ICS 2](#) - Industrial Control and Systems: Controllers, Contactors, and Overload Relays, Rated Not More Than 2000 Volts AC or 750 Volts DC.
- G. [NEMA MG 1](#) - Motors and Generators.

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.
- C. Shop Drawings: Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.
- 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, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Install in areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship and installation is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
- C. Store materials in a dry, warm, ventilated weathertight location.

1.7 COORDINATION

- A. Coordinate Work with other operations and installation of adjacent finish materials to avoid damage to installed materials.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 SIDE FOLDING SECURITY GRILLES

- A. Side-Folding Polycarbonate Vision Panel Grilles: Overhead Door Corporation Model 677. Polycarbonate panels shall be cushioned with specially designed vinyl compression gaskets at top and bottom of glazing.
 - 1. Curtain: Aluminum 18 gauge (1.27 mm) with 1/8 inch (3 mm) thick self-extinguishing polycarbonate viewable area.
 - a. Panel Width: Standard 7 inch (178 mm) with a 4-3/4 inch (121 mm) viewable area.
 - b. Panel Width: Wide-body 11-1/4 inch (286 mm) with a 8-7/8 inch (226 mm) viewable area.
 - c. Frame: Truss like aluminum frame, minimum 4 inch (102 mm) high bottom and 5-1/4 inch (133 mm) high top plates.
 - 2. Finish:
 - a. Aluminum clear anodized.
 - b. Aluminum color anodized. Color as selected by Architect.
 - c. Duracron acrylic or powder coat paint. Color as selected by Architect.
 - 3. Track:
 - a. Trolley assemblies shall be 1-1/8 inch (29 mm) and adjustable 1 inch (25 mm) upward or downward without the removal of the curtain.
 - b. Track shall be heavy extruded aluminum 1-3/8 inch (35 mm) wide by 1 5/8 inch (41 mm) high.
 - c. Curves:
 - 1) 90 degrees.
 - 2) 120 degrees.
 - 3) 135 degrees.
 - 4) 150 degrees.
 - 5) Radius: 14 inch (356 mm) for standard models.
 - 6) Radius: 22 inch (559 mm) radius for Wide-Body models.
 - 4. Locking:
 - a. Provide lead post with a concealed a hook bolt lock activated by a keyed cylinder or thumb turn that engages a full height wall channel. Where required, provide a top and bottom spring loaded locking post with interior thumb turn and protection or keyed cylinder and dustproof floor sockets for all drop bolts. Provide rubber bumper at the edge of locking post.
 - b. Intermediate posts:
 - 1) Floor mounted provide intermediate posts a maximum of 10 feet (3048 mm) of curtain length.
 - 2) For counter mounts and at each curve provide intermediate posts a maximum of 6 feet (1828 mm).
 - 3) Intermediate posts contain an adjustable concealed spring loaded drop bolt with cylinder locks keyed alike. Provide with dustproof floor sockets for all drop bolts.
 - c. Traveling end post shall have an attached full height protection plate and shall be self locking into a steel V-stop. End post are fixable to a wall when stacked in the opening using top and bottom locking posts.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify opening sizes, tolerances and conditions are acceptable.
- B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- E. Coordinate installation of electrical service with Section 16150. Complete wiring from disconnect to unit components.
- F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.
- G. Install perimeter trim and closures.

3.4 ADJUSTING

- A. Test security grilles for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 CLEANING

- A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 PROTECTION

- A. Protect installed products until completion of project.

END OF SECTION