

## **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.

### **1.3 REFERENCES**

- A. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

### **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.

### **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: The Cookson Company, Inc., 1901 South Litchfield Road, Goodyear, AZ 85338. (800) 294-4358. ADS@Cooksondoor.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### **2.2 SIDE FOLDING SECURITY GRILLES**

- A. Cookson Door Inc., The "Classic 126" shall incorporate 2" (51 mm) high truss-like plates at the top and bottom of the closure. Construct of 5/16" diameter vertical rods on 3-1/2" (89 mm) centers linked by flat horizontal bars 1/8" (3 mm) by 5/8" (16 mm) by 7/4" (197 mm). Bars are vertically spaced every 12" (305 mm) with 7/16" (11mm) diameter sleeves over alternating rods.
- B. Materials:
  - 1. Aluminum is to be 6063 aluminum alloy with T-5 temper.
- C. Locking:
  - 1. Members are to be vertical stiles fabricated from rectangular tubing 1.3" (33 mm) x 2.4" (62 mm). Members using floor bolts include dust free, stainless top floor sockets.
  - 2. Lead and trailing end members are to be cylinder controlled lock stiles with self-adjusting, cold rolled steel floor bolts and top bolts through the top of the track into the support.
  - 3. Intermediate locking members with cold rolled steel floor bolts are supplied for (up to) every 10'-0" (3048 mm) of curtain.
  - 4. Bipart assemblies are supplied as required. One lock member will retain a hookbolt deadlock activated by keyed or thumbturn cylinders. A second intermediate locking member with a steel floor bolt shall include a full height channel to accept the hookbolt deadlock.
- D. Track:
  - 1. Overhead track is to be 1.3" (33 mm) wide x 1.8" (46 mm) high and is to accept 1-1/8" (29 mm) diameter roller trolleys. Rollers are to bear on 0.27" (7 mm) thick aluminum surface within the track. Track curves, where indicated, are to have 10" (254 mm) or 14" (356 mm) radii.
- E. Finish:
  - 1. Standard factory finishes are to be: 0.0004" (10 micron) clear anodizing.
- F. Weight and Stacking:
  - 1. Grille weights are to be expressed in lbs./sq. ft. and kg/sq.m of clear opening: Classic 126 - 1.2 lbs./sq. ft. (5.9 kg/sq.m).
  - 2. Minimum stacking shall be 1.05"/linear foot of opening plus 3.5" for each locking member or 87.5 mm/meter of opening plus 89 mm per locking member.
  - 3. Grille support must be able to carry the weight of a fully stacked door at any point along its length. Support is to carry the total weight / the total stacking.

## **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. 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

SECTION 08333

SIDE FOLDING SECURITY GRILLES

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