

## SECTION 08350

### VisionGlide™ SIDE-FOLDING GRILLES – OPEN DESIGN

#### GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE, AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING.

EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. (NUMBERS AND TITLES REFERENCED ARE BASED ON MASTERFORMAT, 1995 EDITION).

THIS SECTION ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING SECTIONS 01330 SUBMITTAL PROCEDURES, 01620 PRODUCT OPTIONS, 01630 PRODUCT SUBSTITUTION PROCEDURES, 01660 PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01770 CLOSEOUT PROCEDURES, AND 01780 CLOSEOUT SUBMITTALS. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

THIS IS AN OPEN PROPRIETARY SPECIFICATION ALLOWING USERS THE OPTION OF APPROVING OTHER MANUFACTURERS WHICH COMPLY WITH THE CRITERIA SPECIFIED HEREIN.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

OPTIONAL ITEMS REQUIRING SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G.: [35] [40] [45]. IN CASES WHERE ONE OF THE OPTIONAL ITEMS IS A STANDARD FEATURE OF THE GRILLE MODEL, IT IS LISTED IN THE FIRST POSITION. MAKE APPROPRIATE SELECTION AND DELETE OTHERS.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED, E.G.: \_\_\_\_\_ .

OPTIONAL PARAGRAPHS ARE SEPARATED BY A REDLINED "OR" E.G.:

OR

## PART 1 GENERAL

### 1.1 SUMMARY

- A. Section Includes: Aluminum, manually operated, side-folding grilles.
- B. Related Sections:
  - 1. 05500 Metal Fabrications. Structural support for track.
  - 2. 06100 Rough Carpentry. Structural support for track.
  - 3. 08310 Access Doors and Panels. Access doors.
  - 4. 08700 Hardware. Masterkeyed cylinders.

INCLUDE APPROPRIATE LANGUAGE BELOW, INCLUDING A REFERENCE TO SECTION 01230 ALTERNATES, IF SIDE-FOLDING GRILLES ARE INCLUDED IN ANY ALTERNATES, ADD SECTION 01230 TO 1.1 B. DELETE IF NO ALTERNATES.

- C. Alternates:

### 1.2 SUBMITTALS

- A. Reference Section 01330 Submittal Procedures; submit the following items:
  - 1. Product Data.
  - 2. Shop Drawings: Include special conditions not detailed in Product Data. Show interface with adjacent work.
  - 3. Quality Assurance/Control Submittals:
    - a. Provide proof of manufacturer ISO 9001:2000 registration.
    - b. Provide proof of manufacturer and installer qualifications – see 1.3 below.
    - c. Provide manufacturer's installation instructions.
  - 4. Closeout Submittals:
    - a. Operation and Maintenance Manual.
    - b. Certificate stating that installed materials comply with this specification.

### 1.3 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Manufacturer Qualifications: ISO 9001:2000 registered and a minimum of five years experience in producing side-folding grilles of the type specified.
  - 2. Installer Qualifications: Manufacturer's approval.

### 1.4 DELIVERY STORAGE AND HANDLING

- A. Reference Section 01660 Product Storage and Handling Requirements.
- B. Follow manufacturer's instructions.

### 1.5 WARRANTY

- A. Standard Warranty: Two years from date of shipment against defects in material and workmanship.

## **PART 2 PRODUCTS**

### 2.1 MANUFACTURER

- A. Manufacturer: Cornell Iron Works, Inc., Crestwood Industrial Park, Mountaintop, PA 18707. Telephone: (800) 233-8366, Fax: (800) 526-0841. Underwriters Laboratories, Inc. (UL), ISO 9001:2000 Registered.

INSERT NAME, ADDRESS, AND PHONE NUMBERS OF LOCAL DISTRIBUTOR BELOW.

- 1. Distributor:
- B. Model: ESG30
- C. Substitutions: Reference Section 01630 Product Substitution Procedures.

### 2.2 MATERIALS

- A. Curtain:

1. Vertical Tubes: 5/16 inch (8 mm) diameter, 5056 H32 aluminum alloy, 2 inches (50.8 mm) on center.
  2. Tube Spacers: 7/16 inch (11 mm) outside diameter by 0.049 inch (1.24 mm) wall thickness aluminum tubes to maintain chain spacing at each hanger tube.
  3. Horizontal Chains: Eyeletted aluminum links, 3/4 inch (19 mm) wide, [12 inches (305 mm) o.c.] [9 inches (229 mm) o.c.] [6 inches (152 mm) o.c.] [3 inches (76 mm) o.c.].
  4. Hinge Panels: 6 inch (152 mm) high, 0.052 inch (1.32 mm) thick continuous interlocking extruded aluminum panels between top two and bottom two chain sets.
  5. Vertical End and Intermediate Members: 1 5/16 x 2 3/8 x 1/8 inch (33 x 60 x 3 mm) thick extruded aluminum tube with recess for attaching curtain sections.
    - a. Leading End Member: Provide concealed masterkeyable, cylinder operated hook-bolt lock operable from [both sides of curtain] [public side of curtain; thumbturn cylinder lock operable from tenant side of curtain] locking into [strike channel] [bi-part strike member].
    - b. Intermediate Members: Provide concealed masterkeyable, cylinder operated drop-bolt lock assembly operable from tenant side. Include [floor socket] [dust-proof floor socket].
    - c. Trailing End Member: [Floating in pocket.] [Fixed, attached to jamb.]
- B. Strike Channel: Full height 1 5/8 x 1/2 x 1/8 inch (41 x 13 x 3 mm) thick extruded aluminum channel.
- C. Trolleys: 1 1/8 inch (29 mm) diameter nylon tired ball bearing wheels; two wheel assembly at each hanger; four wheel assembly at all vertical members.
- D. Track: 1 1/2 x 1 7/8 x 0.093 inch (38 x 48 x 2.36 mm) thick extruded aluminum section with continuous recess for splice tongues and pins.

<p>FOLLOWING CURVED TRACK SECTIONS ARE AVAILABLE. NUMBERS LISTED INDICATE STANDARD SIZES; BLANK SPACES ARE FOR CUSTOM SIZES. MINIMUM RADIUS IS 10 INCHES (254 mm). DELETE IF NO CURVES ARE REQUIRED.</p>
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1. Provide [90] [120] [135] [150] [ \_\_\_ ] degree curve track section(s) with [10 inch (254 mm)] [ \_\_\_ inch ( \_\_\_ mm)] radius.

E. Finishes:

1. Rods, Tube Spacers, Chains [Mill finish] [Clear anodized] [Medium bronze anodized] [Dark bronze anodized] [Black anodized].
2. End and Intermediate Members, Hinge Panels and Strike Channel:[Clear anodized] [Medium bronze anodized] [Dark bronze anodized] [Black anodized].
3. Track: [Clear anodized] [Medium bronze anodized] [Dark bronze anodized] [Black anodized].

### 2.3 ACCESSORIES

<p>FACTORY SUPPLIED POCKET DOORS ARE AN AVAILABLE OPTION WITH ALL SIDE-FOLDING UNITS. DELETE IF NOT DESIRED. POCKET DOORS STOP AT UNDERSIDE OF TRACK AND LOOK BETTER AESTHETICALLY WHEN SIDE-FOLDING GRILLE TRACK IS RECESSED IN THE CEILING OR SOFFIT.</p>
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A. Pocket Door(s):

1. Door

- a. Material: A36 HR steel
- b. Thickness: USS 12-gauge
- c. Finish: Phosphate treatment followed by a light gray baked-on polyester powder coat; minimum 2.5 mils (0.065 mm) cured film thickness.

OR

- c. Finish: Phosphate treatment followed by a baked-on polyester powder coat, [color as selected from manufacturer's standard color range, minimum 32 colors] [custom color as selected by Architect]; minimum 2.5 mils (0.065 mm) cured film thickness; ASTM-D-3363 pencil hardness: H or better.

- d. Size: Rough opening minus 13/16" (20.6 mm)

2. Frame

- a. Material: A36 HR steel
- b. Thickness: USS 12-gauge steel
- c. Finish: Phosphate treatment followed by a light gray baked-on polyester powder coat; minimum 2.5 mils (0.065 mm) cured film thickness.

OR

- c. Finish: Phosphate treatment followed by a baked-on polyester powder coat, [color as selected from manufacturer's standard color range, minimum 32 colors] [custom color as selected by Architect]; minimum 2.5 mils (0.065 mm) cured film thickness; ASTM-D-3363 pencil hardness: H or better.

- d. Size: Overlaps opening 2" (50.8 mm) with a 5/8" (15.9 mm) projection off wall

3. Hinges: 3" (76.2 mm) non-mortise type

4. Lock: 1" (25.4 mm) security mortise cylinder

## 2.4 FABRICATION

A. Fabricate with every fourth vertical rod as a hanger rod. Provide tube spacers at each hanger rod to maintain chain spacing.

B. Hinge Panels: Continuous rows between top two and bottom two chain sets.

C. Intermediate Members: Spacing not to exceed 10 feet (3.05 M) on center and located at each curve.

D. Bi-Parting Grilles: Attach strike channel to appropriate curtain section.

## 2.5 OPERATION

A. Manual push-pull.

## PART 3 EXECUTION

### 3.1 EXAMINATION

A. Examine header substrates upon which side-folding grilles will be installed and verify conditions are in accordance with approved shop drawings. Header, floor or sill to be level across entire grille opening.

- B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates and floor or sill levels.
- C. Commencement of work by installer is acceptance of substrate.

### 3.2 INSTALLATION

- A. General: Install side-folding grille with necessary hardware, anchors, inserts, hangers and supports.
- B. Follow manufacturer's installation instructions.

### 3.3 ADJUSTING

- A. Following completion of installation, including related work by others, lubricate, test, and adjust side-folding grilles for ease of operation.

### 3.4 CLEANING

- A. Clean surfaces soiled by work as recommended by manufacturer.
- B. Remove surplus materials and debris from the site.

### 3.5 DEMONSTRATION

- A. Demonstrate proper operation to Owner's Representative.
- B. Instruct Owner's Representative in maintenance procedures.

END OF SECTION