

08 33 00

SIDE FOLDING DOORS AND GRILLES

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: Aluminum, manually operated, side-folding grilles.

B. Related Sections:

1. 05 50 00 Metal Fabrications. Structural support for track.
2. 06 10 00 Rough Carpentry. Structural support for track.
3. 08 31 00 Access Doors and Panels. Access doors.
4. 08 70 00 Hardware. Masterkeyed cylinders.

C. Alternates:

1.2 SUBMITTALS

A. Reference Section 01 33 00 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 and installer qualifications - see 1.3 below.
 - b. 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: 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 01 66 00 Product Storage and Handling Requirements.

B. Follow manufacturer's instructions.

1.5 DESIGN / PERFORMANCE REQUIREMENTS

A. Stacking:

1. Minimum stacking shall be 1.05 inches/linear foot (87.5 mm/meter) of opening plus 3.5 inches (89 mm) for each locking member.

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2. Grille support must be designed 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 and is express as lbs. per linear ft.

B. Lintel Deflection: Accommodate deflection of lintel to prevent damage to components, deterioration of seals, or movement between door frame and perimeter framing.

C. Thermal Movement: Design sections to permit thermal expansion and contraction of components to match perimeter opening construction.

1.6 WARRANTY

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

B. Maintenance: Submit for owner's consideration and acceptance of a maintenance service agreement for installed products.**PART 2 PRODUCTS**

2.1 MANUFACTURER

A. Manufacturer: Cornell Iron Works, Inc. or Equal.

B. Basis of Design Model: ESG32 - GlideGard

2.2 MATERIALS

A. Curtain:

1. Vertical Tubes: 5/16 inch (8 mm) diameter, 6063 T5 aluminum alloy, 3.5 inches (89 mm) on center.
2. Tube Spacers: 7/16 inch (11 mm) outside diameter aluminum tubes to maintain horizontal chain spacing.
3. Horizontal Bars: Aluminum bars, 6 inches x 3/4 inch (152 mm x 19 mm), Bars to be vertically spaced at 12 inches (305 mm) o.c. in a brick pattern.
4. Hinge Panels: 2 inch (51 mm) high continuous interlocking aluminum panels at the top and bottom of the closure.
5. Leading End Member: 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. Provide concealed masterkeyable, cylinder operated hook-bolt #7 member with lock operable from public side of curtain that engages a full height wall channel. Provide rubber bumper at the edge of the locking member.
7. Trailing End Member: 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. Provide self locking #6 floating end member with an attached full height protection plate and self locking into a steel V-stop mounted to the floor or counter inside the storage pocket.

B. Trolleys: 1 1/8 inch (29 mm) diameter nylon tired ball bearing wheels;

two wheel assembly at each hanger; three wheel assembly at all vertical members.

C. Track: 1.3 x 1.8 inch (33 x 46 mm) thick extruded aluminum section with continuous recess for splice tongues and pins.

D. Finishes: Clear anodized

2.3 ACCESSORIES

A. Pocket Door(s):

1. Door

a. Material: A36 HR steel

b. Thickness: USS 12-gauge

c. Finish: Phosphate treatment followed by a baked-on polyester powder coat, color as selected from manufacturer's standard color range; minimum 2.5 mils (0.065 mm) cured film thickness.

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 baked-on polyester powder coat, color as selected from manufacturer's standard color range; minimum 2.5 mils (0.065 mm) cured film thickness.

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) masterkeyable 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.

2.5 OPERATION

A. Manual push-pull.

PART 3 EXECUTION

3.1 EXAMINATION

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- 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.

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