

Architectural Specifications Exterior Overhead Coiling Shutters

Part 1: General

1.1 Summary

A. Section includes exterior overhead coiling storm and security shutters.

B. Related Sections:

1. Section 08700: Furnishing lock cylinder.
2. Division No. 26--Electrical: Electrical power, conduits, field wiring and disconnect switches for motorized shutters.

1.2 Submittals

A. Reference Section 013300 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.
5. Samples: Manufacturer's standard colors for selection by Architect.

1.3 Quality Assurance

A. Qualifications:

1. Manufacturer Qualifications: A minimum of five years experience in producing shutters of the type specified.
2. Installer Qualifications: Manufacturer's approval

B. Regulatory Requirements:

1. Comply with all local and governing code requirements. Unless required otherwise, fabricate to withstand wind loads that have the same rating as component and cladding of walls

1.4 Delivery, Storage and Handling

- A. Reference Section 016600 Product Storage and Handling Requirements.
- B. Follow manufacturer's instructions

1.5 Warranty

- A. Manufacturer's Warranty: Submit, for owner's acceptance, manufacturer's standard warrant document executed by an authorized company official.
- B. Warranty Period: One year

Part 2--Products

(Specifier Note: Where items occur in brackets () select item desired for project.)

2.1 Manufacturer:

A. Acceptable Manufacturer:

Chicago One Developers Inc.
555 E. 75th Street
Chicago, IL 60619
Tel: (866)783-2105
Fax: (773)783-2155
sales@chicagone.com
www.chicagone.com

B. Substitutions: Not Permitted

2.2 Materials

A. Shutter Components:

1. Slat Types:

(Specifier Note: Select one of the materials as follows.)

PVC Slats

- Exterior type UV stabilized
- Extruded polyvinyl chloride
- Style: (PV40, PV55,) with slat reinforcement every (0, 1, 2, 3) slats.
- Color: (White, Ivory, Attica Beige, Smokey Grey).

Aluminum Foam-Filled Slats

- Aluminum, 3005 H26 alloy with polyurethane foam insulation core
- Slat Style: "AL40"; 1.57 inches (40 mm) high by .34 inches (9 mm) thick.
- Slat Style: "AL45"; 1.77 inches (45 mm) high by .34 inches (9 mm) thick.
- Slat Style: "AL60"; 2.36 inches (60 mm) high by .55 inches (14 mm) thick.
- Provide light slits in each slat that are concealed with shutter is completely closed.
- Foam Core: High Density

- Finish: Multi-coat baked enamel polyester resin coating
- Color: White, Texas Cream, Attica Beige, Smoky Grey, Brown, Medium Bronze,

Aluminum Double Walled

- Extruded Slats: Aluminum, 6063-T5 alloy
- Slat Style: "AL40E"; 1.57 inches (40 mm) high by .34 inches (9 mm) thick.
- Slat Style: "AL60E"; 2.17 inches (55 mm) high by .55 inches (14 mm) thick.
- Provide light slits in each slat that are concealed with shutter is completely closed.
- Finish: Silver Anodized
- Color: (White, Texas Cream, Attica Beige, Medium Bronze)

Aluminum Singled Wall

- Extruded Slats: Aluminum, 6063-T5 alloy.
- Style: Single Wall (Solid, Rectangular, Grid)
- Color: (White, Bronze, Anodized, Custom)

Lexan Singled Wall

- Clear Lexan slats with extruded aluminum linking ribs.
- Color: Anodized (linking ribs only)

2. Bottom Bar: Extruded aluminum, 6063-T5 alloy, 0.050 inch wall thickness.

3. Operation: (Manual) (Motor Operated).

A. Manual operator type: (Pull strap, crank-strap, gear and crank handle, spring push up/pull-down.)

(Specifier Note: Select a. above or a. below to coordinate with selection of 3. Above)

A. Electric Motor Operator type: Single phase 110V-60Hz UL recognized. Motor Model/Size ____ Provide backup battery power pack. Provide manual override capability allowing manual operation in case of power outage.

(Specifier Note: Battery pack and manual override capability above are optional features. Delete if not required.)

4. End Caps

- Die-cast aluminum.
- Style: (4 sided, 5 sided).
- Color: To match slats.

5. Box Housing

- .040 roll formed aluminum.
- Style (4 sided, 5 sided).
- Color: To match slats.

6. Side Track

- Extruded aluminum, Type 6063-T5, with two rows of polypropylene felt weather stripping
- Rail Size: 1.06 inches (27 mm) thick by 2.5 inches (63 mm) high.
- Finish: Multi-coat baked enamel polyester resin coating
- Finish: Silver Anodized
- Color: To match slats

7. Mounting: (Surface, jamb, recess, angles)

8. Stormbar Assembly

- Aluminum extrusion.
- Style and quantity per manufacturer's design to comply with all certification and test reports in section part E. above. (Specifier Note: If stormbar(s) not required, delete).

Part 3--Execution

3.1 Examination

A. Verify conditions of substrates to determine if acceptable for shutter installation in accordance with manufacturer's instructions. Correct all unsatisfactory conditions prior to commencing shutter installation.

3.2 Installation

A. Install track and all shutter components to comply with project shop drawings and manufacturer's written instructions.

B. After installation test and adjust shutter to operate properly and free from distortion.

3.3 Cleaning

A. Clean installed components in accordance with manufacturer's instruction prior to acceptance. Remove all debris remaining, due to installation, from this installation.

3.4 Protection

A. Comply with manufacturer's recommendations and protect completed shutter installations from damage during remaining construction so as not to void warranty.