

Architectural Specifications 10712 Exterior Overhead Coiling Shutters

Part 1 -- General

1.01 Summary

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

B. Related Sections:

1. Section 08710: Furnishing lock cylinder.
2. Division No. 16--Electrical: Electrical power, conduits, field wiring and disconnect switches for motorized shutters.

1.02 Submittals

A. Procedure: Comply with requirements of Section 01330: Submittal Procedures.

B. Product Data: Submit manufacturer's complete product data for all specified components, including specifications, finish information and installation instructions.

C. Shop Drawings: Submit shop drawings showing layout, sizes and types, product materials, components and accessories, fabrication data, operation and wiring diagrams for motor driven operators, finishes, rough-in dimensions, anchorage and installation requirements and details.

D. Samples: Manufacturer's standard array of colors for selection by Architect.

E. Quality Assurance Submittals:

1. Test Reports: Certified test reports showing compliance with specified requirements.
2. Certificates: Manufacturer's certification that design criteria meets specified requirements.
3. Operating and Maintenance Instructions: Submit detailed maintenance requirements and operating instructions.
4. Warranty: Submit specified warranty documents.

1.03 Quality Assurance

A. Installer Qualifications: Use only manufacturer's factory trained installers or qualified licensed installers approved by shutter manufacturer.

B. Regulatory Requirements:

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

C. Pre-Installation Conference: Conduct a pre-installation meeting to verify project installation and coordination requirements, field conditions and manufacturer instructions.

1.04 Delivery, Storage and Handling

A. Procedure: Comply with requirements of Section 01650: Product Delivery Requirements.

B. Deliver components in manufacturer's original, unopened, undamaged containers with identification labels intact. Store components protected from harmful weather conditions and damage from other construction activity.

1.05 Project Conditions

A. Field Measurements: Verify actual measurements of openings by field measurements before fabrication. Show recorded measurements on shop drawings.

1.06 Warranty

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

1. Warranty Period: One year

Part 2--Products

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

Manufacturer
QMI Security Solutions
1661 Glenlake Avenue
Itasca, IL 60143
Tel: (800)446-2500
Fax: (630)980-6364

2.02 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: (PV-2, PV-3, PV-4) with slat reinforcement every (0, 1, 2, 3) slats.
- Color: (White, Ivory, Beige, Grey).

Aluminum Foam-Filled Slats

- Aluminum, 3005 H26 alloy with polyurethane foam insulation core
- Style: (AL2-A, AL2-H, AL3-A, AL3-H).
- Color: (White, Brown, Ivory, Beige, Grey, Bronze, Clear, Anodized).

Aluminum Double Walled

- Extruded Slats: Aluminum, 6063-T5 alloy
- Style: AL6-E (Solid, Punch Style (11, 21, 31, 41, 51)).
- Color: (White, Brown, Ivory, Beige, Grey, Bronze, Clear Anodized).

Aluminum Singled Wall

- Extruded Slats: Aluminum, 6063-T5 alloy.
- Style AL6-E (Solid, Punch Style (11, 21, 31, 41, 51)).
- Color: (White, Brown, Ivory, Beige, Grey, Bronze, Clear Anodized).

Grill Slats

- Style (CD-800, CD-802, CD-78, CD-88, CD-900A, CD-900B).
- Color (Clear Anodized Light Bronze, Medium Bronze, Dark Bronze, Black or Custom Colors).

Transparoll

- Transparent polycarbonate slats with extruded aluminum linking ribs.
- Color: (White, Brown, Clear Anodized (Linking rib 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-recoiler, 3/1 crank-strap recoiler, 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 back-up 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, round).
- Color: To match slats.

5. Box Housing

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

6. Side Track

- Aluminum extrusion, 6063-T5, lined with insulation woven polypropylene runners.
- 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 1.02 part E. above.

(Specifier Note: If stormbar(s) not required, delete).

Part 3--Execution

3.01 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.

3.02 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.

3.03 Cleaning

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

3.04 Protection

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