

SECTION 08330

Coiling Doors and Grilles



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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Rolling Sheet Doors
- B. Guides and Framing

1.2 RELATED SECTIONS

- A. Section 04810 - Unit Masonry Assemblies: Prepared opening in masonry.
- B. Section 05500 – Metal Fabrications: - Steel framed door openings.
- C. Section 06100 – Rough Carpentry: Wood framing and blocking for door opening.
- D. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.

1.3 REFERENCES

- A. ASTM A 653/A 653M – Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

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.
  - 4. Operation and maintenance data.
- C. Shop Drawings: Include opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- 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, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

#### 1.5 WIND PERFORMANCE REQUIREMENTS

- A. Design doors to withstand positive and negative wind loads as calculated in accordance with applicable governing building codes.

#### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the types of doors specified in this section.
- B. Installer Qualifications: Installation to be by qualified dealer in accordance with the manufacturer's installation instructions.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

#### 1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Amarr Garage Doors; 165 Carriage Court, Winston-Salem, NC 27105. ASD. Tel: (800) 503-3667. Fax: (336) 251-1851. Email: [marketing@amarr.com](mailto:marketing@amarr.com) [www.amrr.com](http://www.amrr.com).
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### 2.2 ROLLING SHEET DOORS –MODEL 5501

- A. Provide each door with door curtain, brackets, guide assembly, counterbalance mechanisms and hardware to suit the opening and headroom available.
- B. Curtain:
  - 1. Curtain made from #26 US gauge hot dipped galvanized steel roll formed into corrugated sheet, interlocked and seamed together to make continuous curtain for full height of door.
- C. Polypropylene Strip:
  - 1. Polypropylene strip of 1" width, stapled to exterior side of the curtain, along both edges, to act as a wear strip to prevent steel to steel contact with the curtain and guide.
- D. Finish Coat:
  - 1. Prior to roll forming, curtain is pretreated, and then painted with a prime coat and a top coat of medium gloss high temperature siliconized polyester paint or equal. Standard colors available are: Gloss White, Satin White, Cobalt

Blue, Polar Blue, Royal Blue, Ultra Blue, Duro Bronze, Chocolate Brown, Calypso Green, Hunter Green, Marine Green, Extra Green, Dark Teal, Public Orange, Urgent Orange, Patriot Red, Lighthouse Red, Garnet Red, Bright Yellow, Lightstone Tan, and Natural Tan.

- E. Bottom Bar:
  - 1. Bottom Bar: of extruded aluminum equipped with a vinyl, bulb type weather-stripping
- F. Hardware:
  - 1. Brackets: made of #14 US gauge stamped galvanized steel, secured to the guides and the opening jamb.
  - 2. Steel Bearings: provide steel bearings in door mounting bracket.
  - 3. Slide Bar (Standard Lock on 5501): to be #11 US gauge, exterior lock suitable for 2 padlocks (padlocks by others).
  - 4. Slide Bolts: provide slide bolts both jambs coil side, suitable for padlocks (padlocks by others).
  - 5. Cylinder Locks: to be Chateau Storage master slide locks, suitable for cylinders (by others).
- G. Guide Assembly:
  - 1. Guides: made of #18 US gauge galvanized steel with polypropylene strip attached to inside edge, to act as a wear strip and to prevent steel to steel contact between the curtain and guide.
  - 2. Mounting: mount guides to (*wood*) (*masonry*) (*steel*) jambs as shown on architectural drawings.
- H. Spring Counterbalance:
  - 1. Counterbalance is factory calibrated to match site specifications.
  - 2. Springs to be helical wound torsion type made from oil tempered wire.
  - 3. Adjustment: to be ratcheting mechanism type.
- I. Weather-Stripping
  - 1. Provide draft stop vinyl weather-stripping across the full width of header to seal against top of curtain

## 2.3 FABRICATION

- A. Model 5501.
  - 1. Standard maximum size: Model 5501 is 10 feet 0 inches wide by 10 feet 0 inches high.

## 2.4 OPERATION

- A. Operation to be manual push-up.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.

- B. Prepare opening to permit correct installation of door unit to perimeter air and vapor barrier seal.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions. Doors to be face mounted on a prepared surface.
- B. Anchor assembly to wall construction and building framing without distortion.
- C. Secure guides to structural members or solid backing only.
- D. Fit and align curtain assembly, guides and operating hardware.
- E. Adjust door assembly and counter balance to smooth operation.

### 3.4 CLEANING

- A. Clean doors, frames and glass.
- F. Remove packing labels and visible markings.

### 3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION