

SECTION 08330

Coiling Doors and Grilles



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 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 5601

- 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 hot dipped galvanized steel roll formed into corrugated sheet, interlocked and seamed together to make continuous curtain for full height of door.
- C. Nylon Wear Strip:
 - 1. Nylon wear strip of 1" width, stapled to exterior and interior side of the curtain, along both edges, to act as a wear strip to prevent steel to steel contact with the curtain and guide allowing for longevity and quiet operation.
- D. Finish Coat:
 - 1. Prior to roll forming, curtain is pretreated, and then painted with a prime coat and a top coat of Super Durable Polyester paint or equal. Standard colors available are: Glossy White, White, Polar Blue, Royal Blue, Bronze,

Continental Brown, Forest Green, Fern Green, Evergreen, Marine Green, Dark Teal, Teal, Sunset Orange, Tangerine, Valentine Red, Cedar Red, Buckskin, Desert Tan, and Silhouette Gray.

- E. Bottom Bar:
 - 1. Bottom Bar: of Galvalume steel equipped with a vinyl, bulb type weather-stripping
- F. Hardware:
 - 1. Brackets: of stamped steel mounted directly to prepared wall to support, full weight of door.
 - 2. Standard lock is Slide Bolts that provide slide bolts both jambs coil side, suitable for padlocks (padlocks by others).
 - 3. Slide Bar to be steel exterior lock suitable for 2 padlocks (padlocks by others). Slide Bolts: provide slide bolts both jambs coil side, suitable for padlocks (padlocks by others).
 - 4. Cylinder Locks: to be master slide locks, suitable for cylinders (by others).

PART 3

- A. Guide Assembly:
 - 1. Guides: made of 16 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 allowing for longevity and quiet operation.
 - 2. Mounting: mount guides to wood jambs as shown on architectural drawings.
 - 3. Mounting: mount guides to masonry jambs as shown on architectural drawings.
 - 4. Mounting: mount guides to (steel) jambs as shown on architectural drawings.
- B. 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. Assembly: curtain to be coiled on 24 gauge galvanized steel spiral wrapped barrel attached to barrel drums, totally enclosing springs. Springs are mounted to a heavy wall pipe and rotates on steel ball bearings to assure smooth and lasting operation.
- C. Weather-Stripping
 - 1. Provide draft stop vinyl weather-stripping across the full width of header to seal against top of curtain.
 - 2. Provide brush seal weather-stripping at both jambs to seal against both sides of curtain.

3.2 FABRICATION

- A. Model 5601.
 - 1. Standard maximum size: Model 5601 is 14 feet 0 inches wide by 16 feet 0 inches high.

3.3 OPERATION

- A. Operation to be manual push-up.
- B. Operation reduced drive chain hoist. Use 4 to 1 gear reduction of #41 roller chain and sprockets for greater ease of operation and use. Supply galvanized continuous hand chain. (Arch Note: optional up to 100 sq. ft. or up to 10'-0" high.)
- C. Operation: to be LGO motor operated mounted directly to wall or provide optional VFC Bracket and mount motor on drive side bracket. (Arch Note: use up to 196 sq. ft.).

- D. Operation: to be jackshaft motor operated. Operator to be wall mounted on either side of door.

PART 4 EXECUTION

4.1 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.

4.2 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.

4.3 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.

4.4 CLEANING

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

4.5 PROTECTION

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

END OF SECTION