

The Genuine. The Original.



SECTION 08333

SECURITY GRILLES

EVERSERVE® MODEL 671S

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**** NOTE TO SPECIFIER ** Overhead Door Corporation; operating security grille and closure products.**

**This section is based on the products of Overhead Door Corporation, which is located at:
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Suite 200
Lewisville, TX 75067
Toll Free: (800) 275-3290
Phone: (469) 549-7100
Fax: (972) -906-1499
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Overhead Door Corporation pioneered the upward-acting door industry, inventing the first upward-acting door in 1921 and the first electric door opener in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door Corporation products more often than any other brand.

This specification includes side folding and upward coiling security grille closures of aluminum, galvanized steel and stainless steel.

PART 1 GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER ** Delete items below not required for project.**

- A. Springless Security Grille.

1.2 RELATED SECTIONS

**** NOTE TO SPECIFIER ** Delete any sections below not relevant to this project; add others as required.**

- A. Section 05500 - Metal Fabrications: Support framing and framed opening.
- B. Section 06200 - Finish Carpentry: Wood jamb and head trim.
- C. Section 08332 - Rolling Counter Doors.

- D. Section 08710 - Door Hardware: Product Requirements for cylinder core and keys.
- E. Section 16130 - Raceway and Boxes: Conduit from electric circuit to grille operator and from grille operator to control station.
- F. Section 16150 - Wiring Connections: Power to disconnect.

1.3 REFERENCES

**** NOTE TO SPECIFIER ** Delete references from the list below that are not actually required by the text of the edited section.**

- A. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated/Galvanized or Zinc-Iron Alloy-Coated/Galvannealed by the Hot-Dip Process.
- B. ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- C. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- D. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- E. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes - Metric.
- F. NEMA 250 - Enclosures for Electrical Equipment -1000 Volts Maximum.
- G. NEMA ICS 2 - Industrial Control and Systems: Controllers, Contactors, and Overload Relays, Rated Not More Than 2000 Volts AC or 750 Volts DC.
- H. NEMA MG 1 - Motors and Generators.

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.
- C. Shop Drawings: Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

**** NOTE TO SPECIFIER ** Delete selection samples if colors have already been selected.**

- 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, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.

**** NOTE TO SPECIFIER ** Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.**

- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Install in areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship and installation is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
- C. Store materials in a dry, warm, ventilated weathertight location.

1.7 COORDINATION

- A. Coordinate Work with other operations and installation of adjacent finish materials to avoid damage to installed materials.

1.8 WARRANTY

**** NOTE TO SPECIFIER ** The following paragraph applies to EverServe Model 671S: only. Delete if not applicable.**

- A. EverServe Model 671S: Manufacturer's limited warranty for 2 years or 300,000 cycles on door system materials and workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Overhead Door Corporation, 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

**** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.**

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 SPRINGLESS SECURITY GRILLE

- A. EverServe Model 671S Springless Security Grille by Overhead Door Corporation.
1. Performance:
 - a. Springless direct drive mechanism without chain and sprocket connecting the drive mechanism to the door.
 - b. System cycle of no less than 300,000 cycles.
 2. Curtain: Horizontal 5/16 inch (7.8 mm) diameter rods with network of vertically interlocking links to form a pattern. Vertical rod 2 inch (51 mm) on center spacing. Continuous spacer tubes. Bottom bar extruded aluminum tubular shape.
 - a. Material:

**** NOTE TO SPECIFIER ** Select the material required from the following paragraphs and delete the paragraph not required.**

- 1) Stainless Steel Link, Solid Rod, and Spacer: No. 4 finish.
- 2) Stainless Steel Link, Solid Rod, and Spacer: No. 2B finish.
- 3) Galvanized w/ Rust Inhibitor Steel Link, Solid Rod, and Mill Aluminum Spacer.
- 4) Mill Aluminum Link, Spacer and Galvanized Steel Solid Rod.
- 5) Clear Anodized Aluminum Link, Spacer and Galvanized Steel Solid Rod.

- b. Pattern:

**** NOTE TO SPECIFIER ** Select the pattern required from the following paragraphs and delete the paragraphs not required.**

- 1) Straight lattice; horizontal spacing 9 inches (228 mm) on center.
- 2) Brick pattern; horizontal spacing 9 inches (228 mm) on center.

3. Finish:

**** NOTE TO SPECIFIER ** Select the finish required from the following two paragraphs and delete the paragraph not required.**

- a. Prime all non-galvanized, exposed ferrous surfaces with one coat of rust-inhibitive primer
- b. Powder coat: PowderGuard Premium powder coat, color as selected by the Architect.

4. Guides: Three angle structural steel high usage guide.

**** NOTE TO SPECIFIER ** Select the finish required from the following paragraphs and delete the paragraphs not required.**

- a. Finish:
 - 1) PowderGuard Premium powder coat in black color.
 - 2) PowderGuard Premium powder coat, color as selected by the Architect.
 - 3) PowderGuard Zinc base coat, gray.
 - 4) PowderGuard Zinc base coat, gray with PowderGuard Premium powder coat color as selected by Architect.

5. Bottom Bar: Reinforces curtain in the guides.

- a. Tubular extruded aluminum
 - 1) Finish: Mill finish aluminum
- b. Double structural steel angle.
 - 1) Material:

**** NOTE TO SPECIFIER ** Select the material required from the following paragraphs and delete the one not required.**

- (a) Steel.
 - (b) Stainless steel with a brushed finish.
- 2) Finish:

**** NOTE TO SPECIFIER ** Select the finish required from the following paragraphs and delete those not required. Delete entirely for stainless steel.**

- (a) PowderGuard Premium powder coat in black color.
 - (b) PowderGuard Premium powder coat, color as selected by Architect.
 - (c) PowderGuard Zinc base coat, gray.
 - (d) PowderGuard Zinc base coat with PowderGuard Premium powder coat, color as selected by the Architect.
6. Motor: Direct drive, integrated gear motor/brake assembly sized for openings. Provide with a manual hand chain for operation during power outages. Operator and drive assembly is factory pre-assembled and provided with all wiring harnesses needed direct from the factory.

**** NOTE TO SPECIFIER ** Select one of the following paragraphs; and delete the one not required.**

- a. Supply Voltage: 220/240V AC, 1-phase, operating range 220-240V.
- b. Supply Voltage: 230V AC, 3-phase per, operating range 208-245V.
- c. Supply Voltage: 440V/480V AC, 3-phase. Require appropriate step down transformer.
- d. Supply Voltage: 575V AC, 3-phase. Require appropriate step down transformer).

**** NOTE TO SPECIFIER ** Select one of the following paragraphs; and delete the one not required.**

- e. Left hand mount.
 - f. Right hand mount.
7. Control Panel: Electronic controller with microprocessor self-diagnostics. Digital readout indicates door action, alarm conditions and fault conditions. Time delay self-close timer and non-resettable cycle counter are included. Enclosure is IP54 rated/NEMA 3 equivalent.
8. Door Roll: Directly driven, springless roll shall be steel tube with integral shafts, keyed on the Drive End and supported by self-aligning greaseable sealed bearings. Door shall not require any counterbalance device.
9. Hood, operator end cover and bracket end cover: Protecting drive motor, barrel, chain, and sprocket from dirt and debris and extending between the support brackets.

a. Material:

**** NOTE TO SPECIFIER ** Select one of the following hood material paragraphs; and delete the ones not required. Standard hood assembly is 24 gauge black painted steel.**

- 1) Steel.
- 2) Aluminum.
- 3) Stainless steel with a brushed finish.

b. Finish:

**** NOTE TO SPECIFIER ** Select the steel or aluminum finish required from the following paragraphs and delete those not required. Delete entirely for stainless steel.**

- 1) Polyester paint in black for steel only.
- 2) PowderGuard Premium powder coat, color as selected by the Architect.
- 3) Clear anodized for aluminum only.

**** NOTE TO SPECIFIER ** Select the following paragraph for exterior mounted doors; and delete if not required.**

- c. Provide with sloped top for exterior mounting.
10. Brackets: Provide steel brackets to support motor, curtain, and hood:

**** NOTE TO SPECIFIER ** Select one of the following paragraphs; and delete the ones not required. Standard is PowderGuard Premium in black color. Contact manufacturer for PowderGuard powder coat colors available.**

- a. PowderGuard Premium powder coat in black color.
- b. PowderGuard Premium powder coat, color as selected by Architect.

- c. PowderGuard Zinc base coat, gray.
 - d. PowderGuard Zinc base coat with PowderGuard Premium powder coat color as selected by the Architect.
11. Safety Devices: Provide door with following safety devices:
- a. Photoelectric sensors that cast an invisible beam across the door opening and reverses the downward motion of the door when an object enters the path of the beam.
 - b. Built-in brake mechanism to motor assembly eliminates uncontrolled curtain travel independent of other safeties.

**** NOTE TO SPECIFIER ** Select the following optional paragraph or delete if not required.**

- c. Electric sensing edge.
12. Actuators:
- a. One Open/Close/Stop push button station incorporated into Control Panel.

**** NOTE TO SPECIFIER ** Complete the following paragraph for optional equipment as required; and delete if not required. Specify optional push buttons, loop detectors, radio control, motion detectors, or any combination thereof as required. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Contact the manufacturer for additional information.**

- b. Radio control.
- c. Interior Push buttons.
- d. Exterior Push buttons.
- e. Interior Key switch.
- f. Exterior Key switch.
- g. Loop detectors.
- h. Motion detectors.
- i. Warning light.
- j. Second set of photoelectric sensors.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify opening sizes, tolerances and conditions are acceptable.
- B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.

- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

**** NOTE TO SPECIFIER ** Select the following paragraph for electric operation of grilles and delete if not required.**

- E. Coordinate installation of electrical service with Section 16150. Complete wiring from disconnect to unit components.
- F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.
- G. Install perimeter trim and closures.

3.4 ADJUSTING

- A. Test security grilles for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 CLEANING

- A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 PROTECTION

- A. Protect installed products until completion of project.

END OF SECTION