

SECTION 108200 (2011) / 10240 (1995)

GRILLES AND SCREENS

ECONOSPAN**®** HORIZONTAL FLAT PICKET

[ATTENTION SPECIFIER: DISPLAY HIDDEN NOTES FOR BEST RESULTS]

\*\* NOTE TO SPECIFIER \*\* Willard Shutter Company, Inc., aluminum grilles and screens for concealing rooftop equipment.  
 .  
 This section is based on the products of Willard Shutter Company. Inc., which is located at:  
 4420 N.W. 35th Court  
 Miami FL 33142  
 Tel: 800-826-4530 or 305-633-0162  
 Fax: 305-638-8634  
 Email: [info@willardshutterco.com](mailto:)  
 [www.willardshutterco.com](http://www.willardshutterco.com)

1. GENERAL
   1. SECTION INCLUDES
      1. Econospan**®** Flat picket aluminum screens for concealing rooftop equipment.
   2. RELATED SECTIONS

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

* + 1. Section 05500 - Metal Fabrications: Superstructure support and bracing of rooftop screens and grilles.
    2. Section 07510 - Built-Up Bituminous Roofing: Treating penetrations for support of rooftop screens.
    3. Section 07530 - Elastomeric Membrane Roofing: Treating penetrations for support of rooftop screens.
    4. Section 10210 - Wall Louvers.
  1. REFERENCES

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

* + 1. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2000.
    2. ASTM B 209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (Metric); 2000.
    3. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2000.
    4. ASTM B 221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2000.
    5. ASTM C 578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2000.
  1. PERFORMANCE REQUIREMENTS
     1. Wind Load: Design grilles and screens, including superstructure support system, to withstand positive and negative wind loading in accordance with applicable building code.

\*\* NOTE TO SPECIFIER \*\* If this article is retained, delete paragraph above or below.

* + 1. Wind Load: Design grilles and screens, including superstructure support system, to withstand wind loading as follows:
       1. Positive wind load: \_\_\_\_\_\_ lbf/sq ft (\_\_\_\_\_ Pa).
       2. Negative wind load: \_\_\_\_\_\_ lbf/sq ft (\_\_\_\_\_ Pa).
       3. Safety factor: 1.5 times design loads.
  1. SUBMITTALS
     1. Submit under provisions of Section 01300.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Storage and handling requirements and recommendations.
        2. Installation methods.
     3. Shop Drawings: Include plans, sections, and details of connections and bracing.
        1. Include structural calculations indicating compliance with wind loading requirements.

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

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products of the type specified in this section, with not less than ten years of documented experience.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging until ready for installation.
     2. Comply with manufacturer's instructions for handling of grille and screen products.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Willard Shutter Company, Inc.; 4420 N.W. 35th Court, Miami, Florida 33142. ASD. Tel: 800-826-4530 or 305-633-0162. Fax: 305-638-8634. E-mail: [info@willardshutterco.com](mailto:info@willardshutterco.com) web: [www.willardshutterco.com.](http://www.willardshutterco.com.)

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

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01600.
  1. HORIZONTAL FLAT PICKET SCREENS
     1. Construction: Individual roll-formed aluminum pickets snapped onto extruded horizontal aluminum stringers spaced at 24 in (610 mm) on center, which in turn are supported by custom superstructure.
        1. Vertical Stringers: Extruded aluminum members of alloy 6061-T6 or equivalent per ASTM B 221 (ASTM B 221M), 0.040 in (1.0 mm) thick, formed into a 1.5 in (38 mm) deep hat shape, with punched clips protruding 0.65 in (16.5 mm) for retaining snapped-on slats spaced 0.688 in apart, allowing 15 percent free air flow. Stringers to be installed at 24” O.C. minimum or as per manufacturer’s alternate recommendation as recommended.
        2. Horizontal Slats: Aluminum alloy 3005-H26 or equivalent per ASTM B 209 (ASTM B 209M), 3.375 in (85.7 mm) wide members roll-formed into shallow channel shape and designed to snap onto vertical stringers.
     2. Aluminum Finish: Low gloss polyester enamel paint, roller coated over pretreated aluminum and baked at 400 degrees F (204 degrees C).

\*\* NOTE TO SPECIFIER \*\* Manufacturer's standard colors are Arctic White, Colonial White, Space Black, Charcoal Gray, Dark Bronze, Canary yellow, Desert Beige, Cordovan Brown, Avocado, and Forest Green.

* + - 1. Color: As selected from manufacturer's standard colors.
      2. Color: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
  1. ACCESSORIES
     1. Miscellaneous Trim: Aluminum sheet formed to shapes indicated and finished to match grilles and screens.
     2. Superstructure: As specified in Section 05500.
     3. Superstructure: As specified in Section \_\_\_\_\_\_.
     4. Fasteners: Self-tapping stainless steel screws, as approved by manufacturer of grilles and screens.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install grilles and screens in accordance with approved shop drawings and manufacturer's printed instructions.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION