SECTION 08 1166

GUARDA™ SECURITY SCREEN DOORS

The Guarda™ Security Screen Door in this specification is appropriate for use in residential properties, military installations, prisons, commercial properties, and other structures that require the ultimate in security.

Guarda™ Security Screen Doors provide high security protection, protection from pests and insects, reduction of harmful UV rays, clear views, and ventilation all without compromising the style or appearance of the building.

PART 1- GENERAL

1.01 SUMMARY

A. This section includes:

B. Related work in other sections:
   1. Section 08 10 00- Door and Frames
   2. Section 08 50 00- Windows
   3. Section 08 80 00- Glazing
   4. Section 08 88 00- Special Function Glazing

1.02 SUBMITTALS

A. Product Data: Submit manufacturer’s product data for protective security door screens including:
   1. Manufacturer’s standard details and fabrication method.
   2. Data on finishes, hardware, and accessories.
   3. Recommendations for maintenance and cleaning of finish surfaces.
   4. Test data, Knife Shear Test, Dynamic Impact Test, Jimmy Test, and Salt Spray Test.

B. Shop drawings for each Protective Security Screen Door are required, including:
   1. Layout and installation details.
   2. Elevations at 1/4-inch scale.
   3. Detail sections.

C. Samples for approval:
   1. Submit pairs of samples of each specified metal color and finish on sections of extrusions, formed shapes, and screen mesh.

1.03 QUALITY ASSURANCE

A. Installer qualifications: Engage an experienced installer who has completed installations of similar protective security screen doors in design and extent to
those required for the project and whose work has resulted in construction with a record of success in service performance.

B. Manufacturer’s qualifications: Provide Protective Security Screen Doors produced by a firm experienced in manufacturing screens that are similar to those indicated for this project and that have a proven record of success in service performance.

C. Single source responsibility: Obtain Protective Security Screen Doors from a single manufacturer, to ensure full compatibility and warranty of parts.

D. Design criteria: The drawings indicate the size, and dimensional requirements of the Protective Security Screen Doors required and are based on the specific types and models indicated.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver Protective Security Screen Doors and related components in the manufacturer’s original protective packaging. Do not deliver security screens until the work is ready for their installation.

1. Inspect components for damage upon delivery. Unless minor defects in metal components can be made to meet the Architect’s specifications and satisfaction, damaged parts should be removed and replaced.

1.05 PROJECT CONDITIONS

A. Field Measurements: Check opening by accurate field measurement before fabrication. Show recorded measurements on shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of the work and possible damage to the finished product.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER’S

A. Basis of design: Design is based on Guarda™ Security Screen Doors as manufactured by:

C.R. Laurence (CRL)
Tel: (800) 421-6144 Ext. 6180 Fax: (800) 262-3299
Email: glazing@crlaurence.com
www.crlaurence.com
www.crl-arch.com

2.02 MATERIALS

053012 CRL/08 1166 PROTECTIVE SECURITY SCREEN DOORS
A. Mesh
1. SUS 316 marine grade 0.0315 inch (0.8 mm) wire diameter, high tensile stainless steel, 10.5 strands per lineal inch weft and 11 strands per lineal inch warp. The wire cloth is woven according to ISO9044/ ASTM E2016-06 standards. The open area space for the mesh is 42.7% (with min. tensile strength >800 lbs/linear inch).
2. The mesh is powder coated black (AS4506-2005 Metal Finishing for thermo-set powder coating). These standards set out relevant test procedures and specify Performa Requirements for thermo-set powder coatings applied to metal substrates. Major applications specify for a stainless steel substrate with very high grade of industrial classification.
4. Independent salt-spray testing has exceeded 10,000 hours under laboratory conditions according to ASTM B117-2009.

B. Aluminum Extrusion
1. The Extruded Aluminum material is 6063-T5 with high strength and corrosion resistance properties.
2. Extrusions are powder coated (AS 3715-2002 Thermo-set powder coating for architectural applications of aluminum), and American Architectural Manufacturers Association AAMA 2603. The Australian and U.S. standards test procedures and specify performance requirements for thermo-set powder coatings intended specifically for architectural applications.

C. Main Frame (Sash) Materials
1. [Slider][Hinged] The main frame (or sash) is [Premium 1-1/8 inches (28.6 mm) x 3-1/2 inches (88.9 mm)] [Slimline 13/16 inc (20.6 mm) x 3-1/4 inches (82.5 mm)] and is extruded from aluminum alloys 6063- T5, 0.509 lb/ft. The nominal wall thickness of the main frame is 1/16” (1.6 mm).

D. Weatherstripping
1. Weatherstripping greatly reduces the infiltration of light, air, wind, rain, snow and other elements into building structures and rooms, helps prevent heat loss, controls the penetration of smoke and fumes, and also reduces or prevents invasion of pests around door openings.

E. Door Closer
1. Smooth pneumatic operation suits either left or right-hand closing hinged doors. Adjustable closing speed with stop bracket, aluminum and UV resistant ABS polymer construction. Standard and heavy-duty versions available.
F. Screws
   1. Screws are stainless steel in either 302 or 304 grade for corrosion resistance.

G. Hardware
   1. Heavy-Duty Commercial Type
   2. Cylinder: 2x5 pin, C4 key profile cylinder lock
   3. Lock Set: Universal auxiliary lock and rods. Snip operate all 3 locks

PART 3 - EXECUTION

EXAMINATION

A. Examine screens with the installer, present for compliance with requirements indicated, installation tolerances and other conditions that affect the installation of the Protective Security Screen Doors. Correct unsatisfactory conditions before proceeding with the installation.

1. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 INSTALLATION

A. Install Protective Security Screen Doors in accordance with approved drawings, instructions, Specifications, and other information depending on the customer’s requirements.

B. After completion of installation, all panels should be cleaned in accordance with the manufacturer’s written instructions.

C. Installation Tolerances:
   1. Maximum variation from plumb or level: 1/8 inch (3.2 mm) in 3 feet or 1/4 inch (6.4 mm) in any 10 feet, whichever is less.
   2. Maximum misalignment of members, abutting end to end: 1/16 inch (1.6 mm).

3.03 CLEANING

A. Airborne dust, dirt, and impurities can accumulate over time in the mesh causing visual defects to the Protective Security Screens. In order to prevent this, and ensure enduring quality and extended product lifespan, the following care is recommended: regularly clean the Protective Security Screens every month. Wash down mesh and frame using a soft cloth, mild soap or detergent and water,
taking care to remove any excess moisture or water when done. Avoid using any sharp objects or materials when cleaning to prevent visual defects.

3.04 PROTECTION

A. Institute protective measures required throughout the remainder of the construction period to ensure that the Protective Security Screens do not incur any damage or deterioration, other than normal weathering, at the time of acceptance.

-END OF SECTION-