

## **Part 1 General**

### **1.01 Description**

The Egress security screen described in this specification provides an easy exiting while offering excellent physical deterrence against glass breakage and forcible entry through windows.

### **1.02 Submittals**

- A. Manufacturer shall submit shop drawings, installation plans and elevations showing the scope of the project.
- B. Samples of materials may be requested by client on a per job basis.

### **1.03 Warranty**

The operation of security screen supplied by Fasolid on the designated project is warranted for one (1) year against any proven defective material or parts, as called for in the specifications. Warranty does not cover abusive actions by others.

## **Part 2 Products**

### **2.01 Acceptable Manufacturers**

### **2.02 Main Frame**

- A. Egress security screen is produced in accordance with ANSI/SMA 6001-02 (heavy class) "American National Standard Specifications for Metal Protection Screens" for impact, sag and forced entry resistance testing.
- B. The main frame shall be of hollow extruded aluminum alloy 6063-T5. The main frame structural wall thickness shall not be less than .063" and a tensile strength of 22,000 pounds per square inch. Weight of aluminum shall be not less than 0.5 lbs/ft. This will ensure meeting the performance requirements of Part 2.02 (A).

### **2.03 Sub Frame/Sash**

The sub frame shall consist of solid extruded aluminum alloy 6063-T5 with a minimum structural wall thickness of .063" and a tensile strength of 22,000 pounds per square inch.

### **2.04 Finish**

All extruded frames shall receive a five stage pretreatment to thoroughly clean and prepare

the surface to receive a baked on powder coating. This provides a durable, uniform and environmentally safe finish.

### **2.05 Infill**

- A. The infill shall be 304 stainless steel mesh count to be 11\*11 strands per inch at a 0.032 diameter with a tensile strength not less than 860 pounds per linear inch. Screen wire mesh shall be one continuous piece with 1" wide, 90 degree bends on all four sides.

### **2.06 Fasteners**

Tamper-resistant screws are used to attach wire cloth to the sub frame. The screws are drilled through the mesh and into the other side of the frame with massive torque, forcing the clamp to bite down on the mesh against any forcible intruder.

### **2.07 Hardware**

- A. Hinges – There shall be a minimum of two concealed hinges per screen unit, three or more if size span is over 40".
- B. Locking mechanism – The operable screens shall include one emergency exit locking system per screen. Operable screens shall comply with ICC/ANSI A117.1 accessibility standards and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2 N). Handle drawing see FIG. 1
- C. Emergency release – No plastic parts are to be used to operable the security screen. All operable screens shall be released easily in the direction of egress travel.
- D. Each screen shall come fully assembled and tested at the factory for operation.

## **Part 3 Execution**

### **3.01 Inspection**

Verify that openings fit allowable tolerance, are plumb, level and provide a solid anchoring surface.

### **3.02 Installation**

- A. Install in accordance with approved shop drawings and specifications.
- B. Plumb and align faces in a single plane and erect screens square.
- C. After completion of installation, screens shall be adjusted, in working order and clean.

Appendix – Operable Screen Handle Drawing

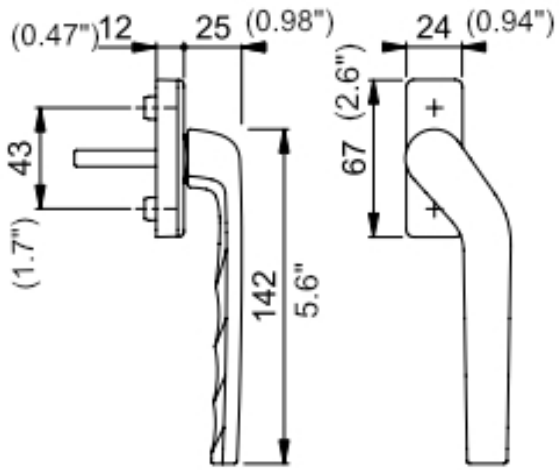


Fig. 1