

500 Series Top Hinged w/ Subframe Security Screen Specification

SECTION 1: GENERAL

1.01 Description

The 500 series operable aluminum security screen described in this specification provides a pleasing style and design while offering excellent physical deterrence against forcible entry through windows by potential vandals.

1.02 Submittals

- A. Manufacturers' submittals will include shop drawings, installation details and elevations showing the scope of the project.
- B. Samples of materials, frame sections, fasteners, corner sections, infill, color, etc. may be requested by client on a per job basis.

1.03 Warranty

Manufacturing materials and workmanship for the screens supplied by Harmony Products Inc. are warranted for one (1) year. Finish is warranted for one (1) year. Warranty does not cover abusive actions by others, deterioration of metals, metal finish fading and other materials beyond normal weathering.

SECTION 2: PRODUCTS

2.01 Acceptable Manufacturers

Harmony Products, Inc.
20 Church Road, PO Box 482, Emigsville, PA 17318
(717) 767-2779 • (717) 767-2918 fax
Website: www.harmonyspi.com

2.02 Subframe

Sub frame material shall be of channel design, extruded from 6063-T5 aluminum alloys with a structural wall thickness of .062". The corners of the sub frame shall be mitered, and mechanically crimped. The sub frame shall include a T-Groove for a combination cushioning strip and insect barrier.

2.03 Main Frame

The main frame member shall not be less than 1 1/2" in width, .050 min. wall thickness, and extruded 6063-T5 aluminum alloy. Corners shall be mitered, corner key inserted and mechanically crimped at each corner. This will ensure meeting the performance requirements and the structural integrity of the product.

2.04 Cover Plate

To retain infill, a .075" thick aluminum cover plate with teeth running the length shall be attached to the main frame using hex head screws.

2.05 Hinge

The hinge consists of a two piece aluminum extrusion. The hinge is mounted to the subframe using #8 x 1/2" Torx T.R. Screws. A retainer clip is located at each end to hold the hinge together with a #8 x 1" Torx T.R. screws.

2.06 Finish

- A. The mainframe and infill shall receive a five stage pretreatment to thoroughly clean and prepare the surface to receive a baked on powder coating. This process provides a hard, durable, uniform and environmentally safe finish.
- B. Optional coatings available upon request.

2.07 Infill

- A. Screen Cloth
 1. Stainless steel 12x12x.028 wire mesh
 2. Stainless steel 12x12x.023 wire mesh

2.08 Fasteners

Infill will be fixed into place with hex head screws on approximately 4" centers.

2.09 Hardware

- A. Installation screws by others.
- B. Stainless Steel Slide bolts (2 per screen)
- C. Optional hardware available upon request.

SECTION 3: EXECUTION

3.01 Inspection

Verify that all openings are plumb, level and provide a solid anchoring surface in compliance with fit tolerances and approved shop drawings.

3.02 Installation

- A. Installation shall be in accordance with specifications and approved shop drawings.
- B. Erect screens aligned, square, plumb and adequately anchored.
- C. Screens shall be adjusted, clean and in working order after completion of installation.