

# SPECIFICATIONS

## EXTRUDED SCREENS S-102

APPLICATION: INTERIOR OR EXTERIOR

### **PART 1 – GENERAL**

**1.1 Scope.** All aluminum screens of the types and sizes shown in the plans and/or as called for in this specification shall be furnished with all necessary accessories as herein specified and shall be manufactured by Allied Window, Inc. Quality standards shall be as described within these specifications.

### **PART 2 – MATERIALS**

**2.1 Alloys.** Aluminum framing shall be of commercial quality and of proper alloy for screen construction free from defects impairing strength and durability. All straight extruded sections shall be of 6063-T5 alloy and temper and shall have a minimum ultimate tensile strength of 22,000 P.S.I. and a yield of 16,000 P.S.I. Aluminum screen mesh shall be of 5154 alloy and free from defects impairing strength and durability.

**2.2 Screen Frame.** All frame members shall be of extruded aluminum with a 3/8" x 1-1/16" (wide) dimension (S-102), -and with nominal wall thickness of not less than 0.062". All extrusions shall be of sufficient strength to perform as designed. All corner keys shall be of extruded aluminum.

**2.3 Screen Mesh.** All screen mesh shall be plain weave per ANSI/AWCI-01 with 18 x 16 mesh size. Screen mesh wire shall have diameter of not less than 0.011". Standard screen mesh is charcoal aluminum. Black or bright aluminum, bronze, stainless steel, or fiberglass mesh is optional.

### **PART 3 – CONSTRUCTION**

**3.1 Assembly.** All frame members shall be assembled in a secure and workmanlike manner. Framing shall be of mitered head and sill. Frame rails and stiles shall be neatly joined together using extruded aluminum corner keys mechanically staked in place.

**3.2 Screen Mesh.** Screen mesh shall be held firmly in place with extruded vinyl screen spline with 0.250" outer diameter and wall thickness of 0.030".

### **PART 4 – FINISH**

The exposed surfaces of all aluminum frame members shall be clean and free from serious surface blemishes. Standard finishes shall be electrostatically applied baked acrylic enamel in white, colonial white, beige, black or bronze, as well as Class 1 clear anodized. Painted finish shall meet AAMA 2603. Optional custom color finish to be two-part polyurethane paint (air dried). Bronze anodized and Kynar-equivalent finishes are available under appropriate circumstances.

### **PART 5 – INSTALLATION**

Installer shall securely fasten screen in place to a straight, plumb and level condition, without distortion of the screen and shall make final adjustments for proper operation in accordance with the manufacturer's instructions.

### **PART 6 – WARRANTY**

Manufacturer warrants products to be free of defects in material and workmanship, excepting torn screen wire that appear within five (5) years. Warranty for standard paint finish is five (5) years. Warranty for custom color finishes is five (5) years. For complete warranty visit: [www.alliedwindow.com](http://www.alliedwindow.com).

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.*