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## Casement & Awning Security Screen Windows Technical Specifications

The window security screen in this specification is appropriate for use in windows. The system comes in a classic design with mitered corners together with the aluminum frame that is secured with stainless steel security head screws. Our window security screen provides high security protection, filtering, reduction of harmful UV rays, clear views and ventilation, and all without compromising the style or appearance of your home.

### Main Frame (sash):

- The main frame or sash is 89mm (w) x 23 (d) and is extruded from aluminum alloys 6063- T5 with 0.984 kg/M. The nominal wall thickness of main frame is 2 mm. The main frame is mitered cut on the corners and fitted with the internal extruded solid aluminum corner stake with a dimension of 60mm (w) x 60 (h) x 20 (d).
- The mid rail or the horizontal frame is the middle of the screen shall be extruded from aluminum alloys 6063- T5 with 1.246 kg/M. The nominal wall thickness of the mid rail is 1.5 mm. The mid rail is secured to the main frame with the product fabrication detail provided a fastener.

### Mesh:

- 304 0.9mm wire diameter, high tensile stainless steel, with 10 strands per liner inch on the weft and warp of mesh. The woven wire cloth is manufactured according to ISO9044/ASTM E2016-06 standards. The open area space for the mesh is 41.6% (with minimum tensile strength (800 MPa)
- The mesh is powder coated to international standards (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, with the exception of aluminum for architectural. Major applications specify for a stainless steel substrate with very high grade of industrial classification.
- The pre-treatment system incorporates process for the mesh, these process breaks into: Alkaline cleaning, Water Rinsing, Acid cleaning, Water Rinsing, Deionizer, Chromate, Drying and Coating.
- Independent salt-spray testing has exceeded 10,000 hours under laboratory conditions according to ASTM B117-2009.

### Aluminum Extrusion:

- The extruded aluminum material is 6063-T5 which has high strength and corrosion resistance.

**ub Frame (Bracket) Material:**

- The window frame is 42mm (w) x 33 (d) and is extruded from aluminum alloys 6063- T5 with 0.643 kg/M. The nominal wall thickness of main frame is 2mm. The roller frame is mitered cut on the corners.
- The middle frame is 52mm (w) x 43 (d) in width and is extruded from aluminum alloys 6063- T5 with 0.804 kg/M. The nominal wall thickness of main frame is 2mm. The roller frame is straight cut on the corners.