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Fixed Window Security Screens (Including Storefront) Technical Specifications

Technical description of product:

- The fixed panel security screen in this specification is appropriate for use in windows, store-fronts, vents and any other applications requiring a non-opening screen. The system comes in a slim and classic design with mitered corners, together with a frame secured with stainless steel security head screws.
- The fixed panels provide high security protection from pests and insects, reduction of harmful UV rays, clear views and ventilation and all without compromising the style or appearance of your home.

Main Frame (sash):

- 43mm (w) x 20 (d) and is extruded from aluminum alloys 6063-T5 with 0.523 kg/M. The bracket installation is 45mm (w) x 20 (d) and is extruded from aluminum alloy 6063-T5, 0.494 kg/M. The nominal wall thickness of the frame is 1.5mm and is mitered cut on the corners and fitted with the internal extruded solid aluminum corner stake with a dimension of 50mm (w) x 50 (h) x 6.5 (d).
- The mid rail or the horizontal frame is the middle of the screen and shall be extruded from aluminum alloys 6063-T5 with 1.246 kg/M. The nominal wall thickness of the mid rail is 1.5mm. The mid rail is secured to the main frame with the product fabrication detail provided as 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.

Configuration:

- 4 sided (for face-on or reveal installations)

Screws:

- Screws are stainless steel in either 302 or 304 grade for corrosion resistance

Aluminum Extrusion:

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