

STEEL SECURITY SCREEN DOOR

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**GENERAL**

- 1.1 Stainless steel security screen doors must be tested by a recognized testing laboratory to conform to SMA 6001-90 "Proposed American National Standard Specifications for Metal Protection Screens".
- 1.2 Stainless steel security screen doors shall be furnished complete with magnetic and/or compression type weatherstripping, sill sweep and be pre-hung in an aluminum Z-bar frame ready for installation.

MATERIALS

- 2.1 Master frame shall be of 22 gauge, G90 hot dipped galvanized steel, roll formed tubular lock seam construction.
- 2.2 Kick panel shall be 18 gauge galvanized steel, embossed for rigidity (also available in 16 gauge).
- 2.3 Z-bar frame liners shall be of extruded aluminum and utilize magnetic and/or compression type flexible vinyl weatherstripping on head and both jambs. (Z-bar header with drip cap).
- 2.4 Stainless steel screen cloth to be 304 h alloy .028 inch diam. wire, 12 x 12 mesh with a tensile strength not less than 800 pounds per linear inch after weaving.
- 2.5 Fastenings to be cadmium or zinc plated steel screws.
- 2.6 Adjustable sill sweep shall be of extruded aluminum with flexible vinyl sweep.

CONSTRUCTION

- 3.1 Master frame shall be mitered joint construction with internal corner reinforcing gussets of 16 gauge steel and be edge brazed.
- 3.2 Transom and mullions to be brazed to master frame.
- 3.3 For added security, mullion rails may be used to separate two or more wire mesh sections, 18 gauge reinforcing is added to mullion in hardware application.
- 3.4 Kick panels to be held in place with continuous steel stops and screens.

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**CONSTRUCTION** (cont'd.)

- 3.5** Wire mesh screening shall have a 90 degree bend minimum 1/2 inch on all four sides and be held in place with 18 gauge continuous steel retainer angle applied with Rusco tamper proof screws 4 inch on center to discourage easy removal.
- 3.6** Doors to be hung in a pre-punched aluminum Z-bar using four tamperproof 304 stainless steel hinges (leaf and pin) with oil lite bearings. Frames to be installed into existing frame using cadmium or zinc plated steel screws.

OPTION: Z-bars may be installed in existing frame using Rusco steel security screws requiring special tool for removal to discourage vandalism and theft.

KT 186 heavy duty hardware kits with Rusco black security installation screws are available from manufacturer.

FINISH

- 4.1** All steel sections will be chemically treated to ensure proper paint adherence.
- 4.2** All exposed surfaces of the door, wire mesh, aluminum Z-bar and aluminum sweep shall be finished with a polyester powder paint, electrostatically applied and baked for a total of 30 minutes at 350 degrees Fahrenheit. Colors to be selected from manufacturer's standard color range.

OPTION: Special colors available to match architectural requirements.

PACKAGING

- 5.1** Doors will be carefully packaged using cardboard edge liners and wrapped in polybags.

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**INSTALLATION** (cont'd.)

- 6.1 Verify that door openings are satisfactory and ready to accept pre-hung screen door.
- 6.2 The installer shall securely fasten doors in place in a straight, plumb and level condition, without distortion of the door or door frame, and shall make final adjustments for proper operation and satisfactory weathering contact and seal in accordance with manufacturer's instructions.
- 6.3 Clean up properly as the work proceeds and on completion, touch up any marred enameled surfaces, remove all protective materials and dispose of all rubbish and surplus materials resulting from the foregoing work.

GUARANTEE

The entire door shall be guaranteed for a period of one (1) year from the date of delivery to the site. The guarantee shall cover the entire door against defects in design, material and workmanship. The contractor shall agree to furnish, free of charge, F.O.B. ordering agency any part or parts which must be of a design that will permit installation readily and not require special tools. The contractor shall agree to furnish, free of charge, a complete replacement door, F.O.B. ordering agency, when the defective part or parts cannot be readily installed without the use of special tools.

It is understood that all replacements shall be made by the contractor and the ordering agency will not negotiate with any party other than the contractor to obtain replacements.

The following exceptions shall apply to said warranty:

1. Normal wear and tear
2. Uniform fading of color
3. Improper maintenance
4. Abuse and carelessness