CONFIGURATION DRAWINGS

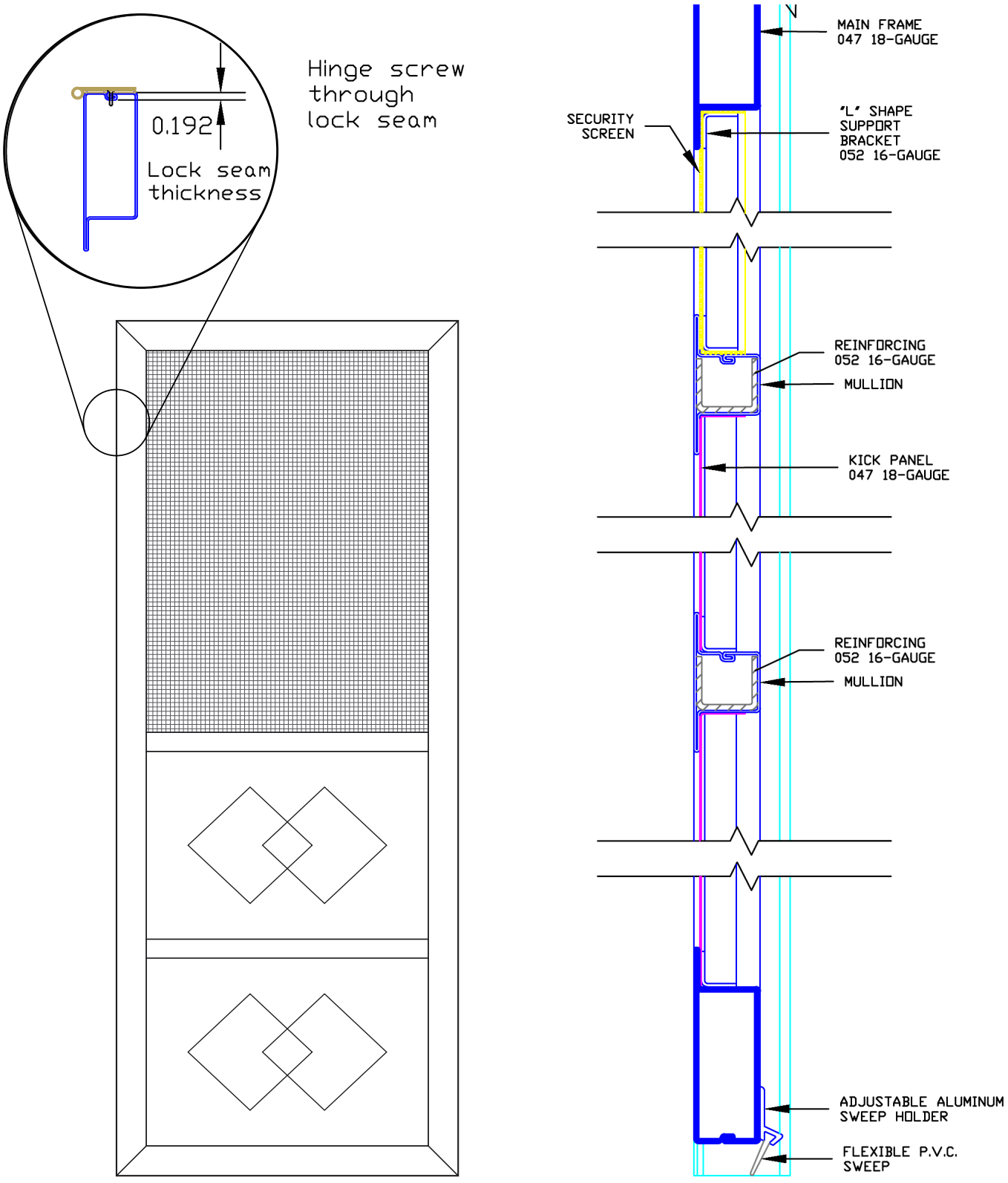


Fig. 1: Model 3900 Steel Security Screen Door. Elevation with lock seam detail, and frame cross-section

MEDIUM DUTY | **ANSI SMA 6001-2002**

The Rusco Model 3900 combines a stainless mesh screen with two embossed steel kick panels, each with a double diamond design. The mesh gives you air flow and visibility, while the two kick panels and tough lock seam construction add rigidity and strength. Each door is custom made to fit your opening, and tested and certified to ANSI SMA 6001-2002.

✓ Screen over two reinforced stamped kick panels for added rigidity and a distinctive look

✓ Custom built to your exact opening, including non-square openings

✓ Same tested-and-certified construction and mesh as every Rusco steel screen door

AT A GLANCE	
Duty Tier	Medium
ANSI Rating	SMA 6001-2002, medium performance
Frame	18 ga. G90 hot-dipped galvanized steel
Mesh	304 stainless, .028" wire, 12 x 12, 800 lb tensile
Kick Panel	Two, 18 ga. diamond stamped, double diamond
Hinges	Four tamper-proof 304 stainless, non-removable pin
Warranty	1 year from delivery, design/material/workmanship

1 GENERAL

- Tested and certified to ANSI SMA 6001-2002 medium performance rating (lab test data available on request)
- Furnished complete with compression-type weatherstripping and sill sweep, pre-hung in an extruded aluminum Z-bar frame, ready for installation

2 MATERIALS

- Main frame: 18 gauge, G90 hot-dipped galvanized steel, tough roll-formed lock seam construction
- Kick panels: two 18 gauge diamond stamped steel panels, each with a double diamond design, for added rigidity
- Screen cloth: 12 x 12 mesh, .028" diameter 304 stainless steel wire, minimum 800 lb tensile strength per linear inch
- Z-bar frame liners: extruded aluminum, with compression-type flexible vinyl weatherstripping on head and both jambs; Z-bar header with drip cap
- Sill sweep: adjustable extruded aluminum with flexible vinyl sweep
- Fastenings: cadmium or zinc-plated steel throughout

3 CONSTRUCTION

- Main frame joints mitered, not less than 2 3/4" x 15/16", with 16 gauge internal corner reinforcing gussets, edge-brazed
- Transom and mullions brazed to master frame; mullion rails have 18 gauge reinforcing for closer and added strength
- Kick panels held in place with 18 gauge continuous steel retainer angle and tamper-proof screws, 4" on center
- Wire mesh held with a minimum 1/2" 90-degree bend on all four sides, secured by 18 gauge continuous steel retainer angle and tamper-proof screws, 4" on center
- Doors hung in a pre-punched aluminum Z-bar on four tamper-proof 304 stainless steel hinges (leaf-and-pin, non-removable pin), left or right, with oil-lite bearings; frames installed onto the existing frame using cadmium or zinc-plated steel screws

4 OPTIONS

- KT186 Heavy Duty Hardware Kit: adjustable door closer, wind chain with hold-up spring, and latch with exterior handle and interior locking mechanism
- KT386 lever handle for ADA compliant openings
- Adjustable box sweep in 6105-T5 aluminum alloy with two flexible SANTOPRENE rubber sweeps
- Z-bars installed with Rusco steel tamper-proof security screws requiring a special removal tool

5 FINISH

- Steel chemically pre-treated for paint adherence
- Electrostatically applied polyester powder paint to all exposed surfaces, baked 20 minutes at 350°F
- Standard colour range, with special colours available to match architectural requirements

6 PACKING

- Doors carefully packaged using cardboard edge liners

7 INSTALLATION

1. Measure the height of the jamb on the brickmould (latch and hinge sides)
2. Cut the Z-bar to length on the jamb sides
3. Set the door in the opening and fasten the hinge side first, through the installation holes in the face of the Z-bar. Set the gap at the header (approximately 1/8") and fasten. Remove the shipping clips from the latch side and fasten. Use 1 1/4" #8 pan head Robertson screws on wood brickmould, or 3/4" #8 self-drilling pan head Robertson screws on steel brickmould
4. Fasten the Z-bar through the hinge port left open in the stainless steel hinge, with a screw long enough to secure the hinge side of the Z-bar from the inside
5. Install the storm door handle with the screws provided, and screw the bottom of the outside handle
6. Mount the closer bracket in line with the mullion above the bottom kick panel, and fasten with the screws provided in the hardware kit. Join the closer to the bracket using the pin, pull the closer to extend 1/2" and lock in place with the lock ring. Fasten the closer to the door
7. Fasten the wind chain to the top of the door. Open the door to just under 90° and lock the closer, then fasten the other end of the wind chain to the header of the frame using the screws provided (hold the chain tight but do not compress the spring). Fasten the spring to the chain at the centre link, and screw the other end of the chain to the header to hold the chain up (fasten towards the hinge side)
8. Set the sweep at the bottom of the door and fasten with #8 x 1/2" pan head Robertson screws. The sweep should touch the sill by approximately 1/8" and is installed on the exterior of the door

8 CLEANING & CARE

- Wash the door and steel frame with a mild, non-abrasive soap and a soft cloth
- Rinse the door and frame with water and dry with a chamois, making sure there are no water spots
- Apply a good car wax as directed by the wax manufacturer, no more than twice per year

9 WARRANTY

- The entire door is guaranteed for one (1) year from the date of delivery to the site. The guarantee covers the entire door against defects in design, material and workmanship
- The contractor agrees to furnish, free of charge, F.O.B. ordering agency, any part or parts, which must be of a design that permits ready installation without special tools
- The contractor agrees to furnish, free of charge, F.O.B. ordering agency, a complete replacement door when the defective part or parts cannot be readily installed without the use of special tools
- All replacements are made by the contractor, and the ordering agency will not negotiate with any party other than the contractor to obtain replacements
- Exceptions: normal wear and tear; uniform fading of colour; improper maintenance; abuse and carelessness