



NATIONAL CERTIFIED TESTING LABORATORIES

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SECURITY SCREEN PERFORMANCE TEST REPORT

Report No: NCTL-110-7870-2
Test Date: 09/17/01
Report Date: 10/04/01
Expiration Date: 09/30/05

Client: Rusco Manufacturing, Ltd.
20 Lowellville Road, Box 87
Struthers, OH 44471

Test Specimen: Rusco Manufacturing, Ltd.'s Model "1900" Steel Security Screen Door
Assembly (Medium).

Test Specification: ANSI/SMA 6001-90, "American National Standard Specifications for
Metal Protection Screens".

TEST SPECIMEN DESCRIPTION

General: The test specimen was a brown painted steel security screen measuring 37-3/4" wide by 81" high overall. The door was mounted to the test buck with sixteen (16) 1-1/2" #6 screws evenly spaced at the Z-bar perimeter. The fixed screen panel measured 30-1/2" wide by 39-3/8" high. The door leaf measured 35" wide by 79-3/8" high. Aluminum Z-bars were used at the head and each jamb. Two (2) 18 gauge steel kick plates were employed with a 22 gauge horizontal cross bar between them. Each cross bar was welded to the frame at each end. The cross bars contained U-shaped steel reinforcements. The steel kick plates were secured to the door cross bars with four (4) evenly spaced screws. The remaining kick plate perimeters were secured to the leaf using 16 gauge steel retaining angles with sixteen (16) evenly spaced screws in each plate. The door frame members were of 22 gauge roll formed steel construction, employing spot brazed mitered corners with 16 gauge galvanized steel corner reinforcements. The Z-bar frame was of double screw butt-type corner construction at the head/jamb corners. Four (4) 3" stainless steel hinges with brass bushings were employed at evenly spaced intervals at the hinge stile. The security screen was held in place by 16 gauge steel retaining angles employing thirty-four (34) evenly spaced 3/8" #6 screws at the screen perimeter. A stainless steel 12 x 12 mesh, 0.028" diameter 800 lbs tensile strength screen was employed.

TEST RESULTS

<u>Para. No.</u>	<u>Title Of Test</u>	<u>Measured</u>	<u>Allowed</u>
4.2.4.1	Impact Test (Medium) 50 ft-lbs.	Meets As Stated	
4.2.4.2	Sag Test 60 lbs.	0.008"	0.063"

TEST COMPLETED 09/17/01

This test specimen meets the performance requirements for the Medium Type in the ANSI/SMA 6001-90 specification.

Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested.

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