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SECURITY SCREEN PERFORMANCE TEST REPORT

Report No: NCTL-110-7870-1
Test Date: 10/15/01
Report Date: 10/31/01
Expiration Date: 10/31/05
Revised Date: 12/07/01

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

Test Specimen: Rusco Manufacturing, Ltd.'s "Series 1700" Steel Security Screen
Door (Medium Class).

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

TEST SPECIMEN DESCRIPTION

General: The test specimen was a brown painted steel door/aluminum Z-Bar two (2) lite security screen door measuring 38" wide by 80-5/8" high overall. The door was mounted to the test buck with sixteen (16) screws at the Z-Bar perimeter. Both screen panels measured 29-7/16" wide by 29-1/2" high; the kick panel measured 29-1/2" wide by 15-3/4" high. The panels were separated by a horizontal mullion. A 24 gauge steel reinforcement channel was housed by each mullion hollow. The door leaf measured 35" wide by 79-1/4" high. The screen was secured to the door leaf from the interior with 34 evenly spaced screws. The kick panel was fastened to the bottom rail and mullion with six (6) screws with five (5) screws at the interior perimeter. Aluminum Z-Bars were used at the head and each jamb. The mullion was welded to the leaf at each end. A stainless steel 12x12 mesh 0.028" diameter, 800 lbs tensile strength screen was employed. Door leaf corners were of mitered corner construction with 5-1/2" steel corner keys and spot brazed at the interior side. The Z-Bar frame was of double screw butt-type corner construction at each end of the head. The screen and kick panel were held in place with steel 0.050" thick L-shaped retainers at the interior perimeter. The door leaf members consisted of 0.043" thick steel and press-fitted seams. The kick panel was 0.050" thick steel. Four (4) 3" stainless steel butt hinges with brass bushings and non-removable hinge pins were employed at the hinge stile. The lock and striker holes were located 40" from the bottom of the door leaf.

Weatherstrip: A bulb vinyl was used at the Z-bar perimeter.

Surface Finish: The interior and exterior surfaces were brown painted steel.

Sealant: No apparent corner sealant applied.

TEST RESULTS

<u>Paragraph No.</u>	<u>Title Of Test</u>	<u>Measured</u>	<u>Allowed</u>
4.2.4.1	Impact Test 50 ft-lbs.		Meets As Stated
4.2.4.2	Sag Test 60 lbs.	0.012"	0.063"

TEST COMPLETED 10/15/01

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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