NATIONAL CERTIFIED TESTING LABORATORIES

FIVE LEIGH DRIVE • YORK, PENNSYLVANIA 17406 • TELEPHONE (717) 846-1200
FAX (717) 767-4100
www.nctlinc.com

SECURITY SCREEN PERFORMANCE TEST REPORT

NCTL-110-25389-1

RENDERED TO:

HARMONY SECURITY PRODUCTS, INC.
20 CHURCH ROAD
EMIGSVILLE, PA 17318

Model/Series: "550"

Specimen Type: Top Hinge Security Screen
(Medium Performance Class)

Report Date: 08/18/22

NATIONAL CERTIFIED TESTING LABORATORIES

FIVE LEIGH DRIVE • YORK, PENNSYLVANIA 17406 • TELEPHONE (717) 846-1200
FAX (717) 767-4100
www.nctlinc.com

SECURITY SCREEN PERFORMANCE TEST REPORT

Report Number	NCTL-110-25389-1
Report Date	08/18/22
Report To	Harmony Security Products, Inc. 20 Church Road Emigsville, PA 17318
Test Date	08/05/22
Specimen:	Harmony Security Products “550” Top Hinge Security Screen (Medium Performance Class)
Test Specification:	SMA 6001-02 (R2013), "Specifications for Metal Protection Screens" Paragraphs 4.3 and 5.

Description of Sample Tested

Note: All dimensions are in the order (Width x Height x Thickness) unless otherwise noted.

Model/Type:	“550”
Configuration	Top Hinge Security Screen
Frame Size	914 mm (36”) wide by 1524 mm (60”) high
Vent Size	864 mm (34”) wide by 1454 mm (57.25”) high
Frame & Vent Type	Extruded aluminum
Joint Construction	Frame (2) Screw mitered Vent Mitered with screw in place corner keys Brace Bar Fastened to the stiles with a metal mounting lug fastened with (1) screw to the stiles
Infill Components	10-10 x 0.035 SST wire mesh 41% opening
Infill Attachment	The screen was attached to the vent and cross bar through the cover plate with (1) #8 x 12.7 mm (0.5”) hex head screw located 25.4 mm (1”) from each end and 102 mm (4”) on center thereafter.
Weatherstrip	
Type:	(1) Strip polypile
Size	5.59 mm (0.220”) high
Location	Stiles and top rail

Operating Hardware

Locks

Type:	Spring loaded pin
Location	Each end of the bottom rail

Keeper

Type	Frame

Hinge Hardware

Type	Full length aluminum hinge
Location	Top rail/ head fastened with pop rivets located on 152 mm (6") centers

Auxiliary

Type:	Slide bolt guard
Location	Locks

Reinforcement	No reinforcement employed
Weep Description	No apparent weeps employed
Interior Surface Finish	White and black painted aluminum
Exterior Surface Finish	White painted aluminum
Sealant	No apparent sealant applied
Installation Method	The screen was installed in a 51 mm x 152 mm (2" x 6") spruce-pine-fir lumber test buck and fastened through each pre punched holes on the frame with (1) #6 x 15.88 mm (0.625") dry wall screw

TEST RESULTS - SMA 6001-02 (R2013)

Paragraph No.	Title Of Test		Result	Allowed
4.3.1	Impact Test (Medium) 50 ft-lbf.		Pass	Meets as Stated
4.3.3	Forced Entry Test			
	Load A & B	75 lbf & 150 lbf	Pass	Meets as Stated
	Load B & C	150 lbf & 75 lbf	Pass	Meets as Stated

Tests performed in accordance with Paragraph 5.3 with any deviations noted. After impact there was no tearing of the screen material from the frame. During loading, locking devices remained engaged, removable from the sub-frame (where applicable) and operable.

This test report was prepared by National Certified Testing Laboratory (NCTL), for the exclusive use of the above named client and it does not constitute certification of this product. The results are for that particular specimen tested and does not imply the quality of similar or identical products manufactured or installed from specifications identical to the tested product. NCTL is a testing lab and assumes that all information provided by the client is accurate and does not guarantee or warranty any product tested or installed.

Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A list of the component drawings reviewed for product verification is included as an appendix to this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL. This report does not constitute certification or approval of the product, which may only be granted by a certification program validator or recognized approval entity. All tests were conducted in compliance with the referenced specifications. This report may not be reproduced, except in full, without the written consent of NCTL. All tests were conducted in compliance with SMA 6001 requirements.

National Certified Testing Laboratories

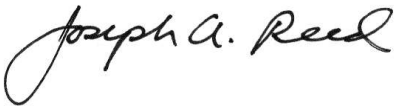


Justin L. Bupp
Laboratory Manager



Joseph A. Reed, PE
Engineering Services





2022.08.29 09:54:47 -04'00'

JLB/bnr

APPENDIX A

Section 1:

Component Drawings, with Applicable Part Numbers, Manufacturing and Modeling Details, were reviewed (as submitted) for Product Verification
(Reference: NCTL-110-25389-1)

See Attached Documentation;
any deviations noted.

Note: The above referenced component drawings along with representative sections of the test specimen will be retained per procedure by NCTL. This testing facility assumes that all information provided by the client is accurate.

Section 2:

Identification	Date	Page & Revision
Original Issue	08/18/22	Not Applicable