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

SECURITY SCREEN PERFORMANCE TEST REPORT

NCTL-110-25385-1

RENDERED TO:

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

Model/Series: "1050"

Specimen Type: Side Hinge Security Screen
(Heavy Performance Class)

Report Date: 08/18/22

SECURITY SCREEN PERFORMANCE TEST REPORT

Report Number	NCTL-110-25385-1
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 “1050” Side Hinge Security Screen (Heavy 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:	“1050”
Configuration	Side Hinge Security Screen
Frame Size	914 mm (36”) wide by 1524 mm (60”) high
Vent Size	864 mm (34”) wide by 1468 mm (57.8125”) high
Frame Type	Extruded aluminum
Vent Type	Extruded aluminum frame with steel sub frame and cross bar
Joint Construction	Frame Mitered with metal corner keys Vent Brace Bar Fastened to perforated metal only Steel Sub Frame Butted with metal corner connector Aluminum Vent Frame Mitered with metal corner key Steel Sub Frame to Aluminum Vent Frame The steel sub frame was attached to the aluminum vent frame with (3) screws to the horizontals and (4) to the verticals.

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Infill Components	18 Ga SST Perforated metal 63% opening
Infill Attachment	The screen was attached to the sub frame and cross bar with (1) #8 x 12.7 mm (0.5”) hex head proof 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	Frame perimeter
Operating Hardware	
Locks	
Type:	Single handle (3) point integrated lock system (lock pin)
Location	337 mm (13.25”) From the bottom of the lock stile
Keeper	
Type	Metal
Location	Lock jamb at the lock locations
Hinge Hardware	
Type	76 mm (3”) Butt type hinge
Location	184 mm (7.25”) From each end and midspan of the hinge stile with corresponding hinge on the hinge jamb
Auxiliary	
Type	Extruded aluminum sub frame
Location	Head and sill
Type	Lock guard
Location	Fastened with (2) screws at the lock
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 the frame with (3) evenly spaced #6 x 15.88 mm (0.625”) dry wall screws at the head and sill and (4) evenly spaced at the jambs.

TEST RESULTS - SMA 6001-02 (R2013)

Paragraph No.	Title Of Test		Result	Allowed
4.3.1	Impact Test (Heavy) 100 ft-lbf.		Pass	Meets as Stated
4.3.2	Sag Test 90 lbf.		0.055”	0.063”
4.3.3	Forced Entry Test			
	Load A & B	150 lbf & 300 lbf	Pass	Meets as Stated
	Load B & C	300 lbf & 50 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

DIGITAL SIGNATURE

Justin L. Bupp
Laboratory Manager

Joseph A. Reed, PE
Engineering Services

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JOSEPH A. REED
ENGINEER No. PE-044401-E

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APPENDIX A

Section 1:

Component Drawings, with Applicable Part Numbers, Manufacturing and Modeling Details, were reviewed (as submitted) for Product Verification
(Reference: NCTL-110-25385-1)

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