



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-110-14546-2

RENDERED TO:

Harmony Products, Inc.

20 Church Road

Emigsville, PA 17318

Model/Series: "1050B (0.028 Wire Mesh)"

Specimen Type: Operable Aluminum Security Screen

(Heavy Performance Class)

Original Report Date: 10/27/11

Test Expiration Date: 10/27/15

Revision Date: 11/09/11



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 No: NCTL-110-14546-2
Test Date: 10/27/11
Report Date: 10/31/11
Expiration Date: 10/27/15
Revision Date: 11/09/11

Client: Harmony Products, Inc.
20 Church Road
Emigsville, PA 17318

Test Specimen: Harmony Products, Inc.'s Series "1050B (0.028 Wire Mesh)" Operable Aluminum Security Screen (Heavy Performance Class).

Test Specification: ANSI/SMA 6001-02, "Specifications for Metal Protection Screens" Paragraphs 4.3 and 5.

TEST SPECIMEN DESCRIPTION

MODEL/TYPE:	"1050B"
CONFIGURATION:	Operable Aluminum Security Screen
FRAME SIZE:	914.4 mm (36") wide by 1524 mm (60") high
VENT SIZE:	863.6 mm (34") wide by 1470.03 mm (57-7/8") high
FRAME TYPE:	Extruded aluminum
JOINT CONSTRUCTION	
FRAME:	Mitered with single screw metal corner gussets
VENT:	Mitered (2) screw corner construction. A steel mullion 1.91 mm (0.075") thick was fastened with (1) screw at each end and located at midspan
GLAZING SYSTEM:	The unit was glazed with a 0.7112 mm (0.028") wire mesh held in place by a steel retainer bar 1.91 mm (0.075") thick. The retainer corners were of butt-type construction with corner gusset. The retainer was secured to the vent with a #8 x 19.05 mm (0.75") hex head tek screw located 38.1 mm (1.5") from each end and 82.6 mm (3.25") on center thereafter
WEATHERSTRIP	
TYPE:	(1) Strip polypile weatherstrip
SIZE:	3.81 mm (0.150") high
LOCATION:	Frame perimeter
OPERATING HARDWARE	
LOCKS	
TYPE:	(1) Pull handle (3) point integrated lock system was located on the lock stile 342.9 mm (13.5") from the bottom rail
LOCATION (Lock Points):	165.1 mm (6.5"), 673.1 mm (26.5") and 1130.3 mm (44.5") from the bottom rail

OPERATING HARDWARE (continued)

KEEPER

TYPE: (1) 76.2 mm (3") x 25.4 mm (1") x 3.18 mm (0.125") thick angle held in place by (2) screws
 LOCATION: At lock point locations on the lock jamb

HINGE HARDWARE

TYPE: (1) Butt-type hinge
 LOCATION: 254 mm (10") from each end and at midspan of the hinge jamb

AUXILIARY

TYPE: (1) Vent guide
 LOCATION: 241.3 mm (9.5") from the lock jamb and held in place with (1) screw

REINFORCEMENT

None employed

WEEP HOLES

No apparent weeps employed

TEST RESULTS

<u>Paragraph No.</u>	<u>Title of Test</u>	<u>Measured</u>	<u>Allowed</u>
4.3.1	Impact Test (Heavy) 100 ft-lbs.		Meets As Stated
4.3.2	Sag Test - 90 #	0.01"	0.063"
4.3.3	Forced Entry Resistance Test Load A & B 150 # - 300 # Load B & C 300 # - 50 #		Meets As Stated Meets As Stated

TEST COMPLETED 10/27/11

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



Drew Klinedinst
 Technician



ROBERT H. ZEIDERS, P.E.
 Vice-President Engineering & Quality