



TEST REPORT

SMA 6001-2021

REPORT No.: 30174.01-106-11

RENDERED TO: HARMONY SECURITY PRODUCTS
Emigsville, Pennsylvania

PRODUCT TYPE: Operable Security Screen

SERIES / MODEL: 2050

Test Completion Date: 1/22/2025

Reference must be made to Report No. 30174.01-106-11, dated 2/13/2025 for complete test specimen description and detailed test results.

CLIENT INFORMATION: HARMONY SECURITY PRODUCTS
Emigsville, Pennsylvania

TEST LABORATORY: Molimo, LLC
1410 Eden Road
York, Pennsylvania 17402
717-900-6034

PROJECT SUMMARY:

PRODUCT TYPE: Operable Security Screen

SERIES/MODEL: 2050

PROJECT SUMMARY:

Molimo LLC was contracted to perform testing on the above referenced product. The results are tested values and were secured by using the designated test method.

PROJECT DETAILS:

Test Dates: 1/22/2025 – 1/22/2025

Test Record Retention End Date: 1/22/2029

Test Location: Molimo, LLC test facility in York, Pennsylvania.

Test Specimen Source: The test specimen was provided by the client. Representative samples of the test specimen will be retained by Molimo for a minimum of four years from the test completion date.

Drawing Reference: The test specimen drawings were supplied by the client. The test specimen construction was verified by Molimo and was found to be representative of the product tested. Test specimen drawings are located in Appendix B of this report.

WITNESSES:

The following representatives witnessed all or part of the testing.

Name	Company
Christopher Geesey	Harmony Security Products
Scott Beveridge	Harmony Security Products
Abram Diehl	Harmony Security Products
Kyriacos Philippou	Harmony Security Products
Justin Bupp	Molimo, LLC
Jordan Dinges	Molimo, LLC
Brett Shultz	Molimo, LLC

TEST METHOD:

SMA 6001-2021 "Specifications for Metal Protection Screens"

TEST SPECIMEN DESCRIPTION:
PRODUCT SIZES:

Test Specimen				
Overall Area: 1.4 m ² (15 ft ²)	Width		Height	
	Millimeters	Inches	Millimeters	Inches
Overall Size:	914	36	1524	60
Vent:	849	33-7/16	1454	57-1/4

FRAME CONSTRUCTION:

Frame Member	Material	Detail
Head, Sill and Jambs	Aluminum	Extruded
Corner Construction	--	Miter-cut with (2) screws

VENT CONSTRUCTION

Vent Member	Material	Detail
Rails and stiles	Aluminum	Extruded with aluminum cover plate and cover plate snap
Corner Construction	--	Miter-cut with metal corner key and (4) screws per corner

TEST SPECIMEN DESCRIPTION: (Continued)
REINFORCEMENT: (Brace Bar)

Drawing Number	Material	Location
E500H-E-07A	Aluminum	Mid span of the stiles attached with a diecast clip fastened with (1) screw at each end

INFILL DETAILS:

Description	Detail
Infill Type:	10 x 10 x 0.035" SST Wire mesh
Infill Attachment:	#10 x 5/8" hex head SST sheet metal screw located 1-1/2" from each end and 4" on center there after
Opening Size: (2)	727 mm x 654 mm (28-5/8" x 25-3/4")

WEATHERSTRIPPING:

Description	Quantity	Location
0.100" high polypile	1 Row	Vent perimeter

HARDWARE:

Description	Quantity	Location
Single handle (3) point integrated lock with lock guard	1	12-1/2" From the bottom of the lock stile with lock points located 4", 24-1/2" and 51-1/2" from the bottom of the lock stile
3" Butt type hinge	4	3" and 19" from each end of the hinge stile with corresponding hinge on the hinge jamb

INSTALLATION: The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/4" shim space.

Location	Anchor Description	Anchor Spacing
Head and sill	#6 x 1-5/8" dry wall screw	2" From each end and mid span
Jambs	#6 x 1-5/8" dry wall screw	6" From each end and 16" on center there after

TEST RESULTS: The temperature during testing was 18° C (65° F).

IMPACT TEST:

Impact	Results	Allowable
Heavy: 100lbf-ft (136N-m)	Meets as Stated	<3" Deflection

SAG TEST:

Sag Load	Results	Allowable
Heavy: 90lbs (40.8kg)	1.1mm (0.045")	1.6mm (0.063")

FORCED ENTRY RESISTANCE TEST:

Forced Entry	Results	Allowable
Heavy: Load A & B Load B & C	Meets as Stated	Meets as Stated

A copy of this report, detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Molimo, LLC for the entire test record retention period. At the end of this retention period, the service life of this report will expire.

Results obtained are tested values and were secured by using the designated test methods. This test report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written permission of Molimo, LLC.

For MOLIMO, LLC:



Justin L. Bupp
Manager-Product Testing



Robert J. Beatty
Project Manager

JLB:cmc

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Alteration Addendum (1)

Appendix-B: Drawings (5)

This report was produced from controlled document template MMO 00012, Rev 4, 06/3/2021.

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	2/13/2025	All	Original Report Issue

Appendix A

Alteration Addendum

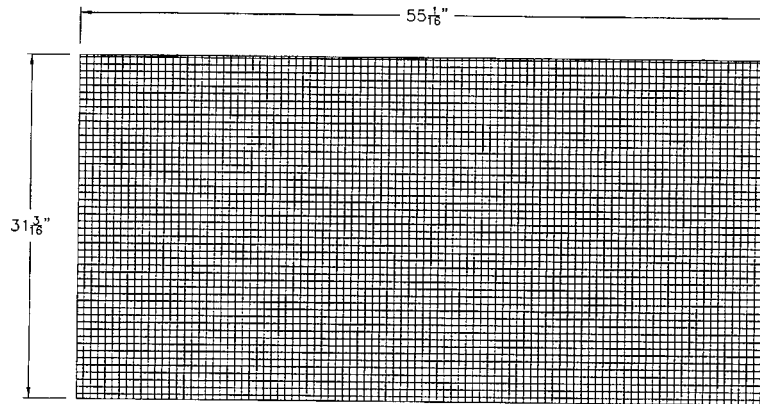
No alterations were performed.

Appendix B

Drawings

NOTE:

1. Mesh woven from .035" diameter UNS S30403 wire.
2. Mesh Count: 10 wires and spaces per 1" of width for both height (warp) and width (weft).
3. Nominal Open Area: 42.25%.
4. Mesh woven per IWMESH SPECIFICATION 2019-001 HEAVY MESH Rev 10.
5. Mesh Finish: Satin black polyester powder per AAMA-2604.



These drawings and specifications are the proprietary property of IWM International and may be used only for the specific purpose authorized in writing.

	Molimo Architectural Product Testing
Report #:	30174.01-106-11
Date:	2/7/2025
By:	J. Bupp

		TOLERANCES (EXCEPT AS NOTED)		IWM International 500 E. Middle Street, Hanover, Pa 17331	
		DECIMAL 0.0 - +/ - 0.030 0.00 - +/ - 0.015 0.000 - +/ - 0.005		TITLE: IWMESH-10 Security Infill	
		FRACTIONAL $\pm 1/8"$		MATERIALS: See Notes	
		ANGULAR $\pm 1^\circ$		SCALE: N.T.S.	
		DATE: 01-31-2025		DRAWN BY: J. Hess	
		PART NUMBER: 3049481 - Rev0		APPROVED BY:	
				SHEET 1 OF 1	

Revision	Description of Revision	Date	Dr. By	Appr. By

Revisions