

NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI010059
DATE: 11/16/2009
CERTIFICATION PROGRAM: Structural
COMPANY: Superseal Mfg
CODE: S-082-1

The "Notice of Product Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The product described below is approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown, requires corrections.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
Superseal Manufacturing Company 125 Helen Street South Plainfield, NJ 07080	Series "1850" Vinyl Horizontal Sliding Prime Window Configuration: XX Glazing: IG-1/8" Annealed Glass Frame: W-1600mm(63") H-1118mm(44") Panel: W-772mm(30.38") H-1019mm(40.13") STP: Pos+2520Pa(52.5psf) Neg-2520Pa(52.5psf)
SPECIFICATION	PRODUCT RATING
AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM F588-07	HS-R35 1600 x 1118 (63 x 44) FER-Passed

Product Tested By: National Certified Testing Laboratories, Inc.
Report No: NCTL-110-12489-1 (Structural/FER)
Expiration Date: **October 31, 2013**

Administrator's Signature: _____

**NATIONAL ACCREDITATION AND
MANAGEMENT INSTITUTE, INC.**
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SUPERSEAL MANUFACTURING CO.

STRUCTURAL PERFORMANCE REPORT

Series "1850"

Type XX Horizontal Sliding
Vinyl Prime Window

NCTL-110-12489-1



NATIONAL CERTIFIED TESTING LABORATORIES

FIVE LEIGH DRIVE • YORK, PENNSYLVANIA 17406 • TELEPHONE (717) 846-1200
FAX (717) 767-4100
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**SUPERSEAL MANUFACTURING CO.
AAMA/WDMA/CSA 101/I.S.2/A440-05
TEST SUMMARY REPORT**

*Report No: NCTL-110-12489-1S
Expiration Date: 10/31/13*

Test Specimen

Manufacturer: Superseal Manufacturing Co.
Product Type: Type XX Horizontal Sliding Vinyl Prime Window
Series/Model: Series "1850"
Primary Product Designation: HS-R35 1600.2 x 1117.6 (63x44)
Optional Product Designation: Not Applicable
Test Completion Date: 10/30/09

Reference should be made to Structural Performance Test Report Number NCTL-110-12489-1 for complete specimen description and test data.

NATIONAL CERTIFIED TESTING LABORATORIES


SERGE PAQUET
Technician



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STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-110-12489-1

Test Date: 10/30/09

Report Date: 11/02/09

Expiration Date: 10/31/13

Client: Superseal Manufacturing Co.
125 Helen Street, P.O. Box 795
South Plainfield, NJ 07080

Test Specimen: Superseal Manufacturing Co.'s Series "1850" Type XX Horizontal Sliding Vinyl Prime Window HS-R35 1600.2 x 1117.6 (63x44).

Test Specification: AAMA/WDMA/CSA 101/I.S.2/A440-05, "Standard / Specification for Windows, Doors and Unit Sky Lights."

TEST SPECIMEN DESCRIPTION

General: The test specimen was a type XX horizontal sliding vinyl prime window measuring 1600.2 mm (63") wide by 1117.6 mm (44") high overall. Both panels measured 771.53 mm (30-3/8") wide by 1019.18 mm (40-1/8") high with a daylight opening of 704.85 mm (27-3/4") wide by 952.5 mm (37-1/2") high. One (1) metal cam-type sweep lock was located at 161.93 mm (6-3/8") from each end of the interior meeting stile. The metal keepers were located on the exterior meeting stile at the lock positions. A rigid vinyl combination cover/roller guide was snap-fitted at the interior and exterior sill track and interior jamb track of the right jamb. A metal roller/nylon housing was located at 25.4 mm (1") from each end of the bottom rails. One (1) extruded aluminum U-shaped reinforcement bar (2.41 mm (0.095") thick) filled the length of the interior stile and exterior panel jamb stile. The frame and panels were of welded mitered corner construction.

Glazing: Both panels were exterior glazed using sealed insulating glass with an adhesive and foam tape back-bedding and a snap-in dual durometer rigid vinyl glazing bead. The overall insulating glass thickness was 19.05 mm (3/4") consisting of two (2) lites of (3.18 mm (1/8") thick) annealed glass and one (1) space created by a coated U-shaped steel spacer system (CU-D).

Weatherseals: One (1) strip of center fin weatherstrip (6.35 mm (0.250") high) was located at the bottom rails, top rails and stiles. One (1) strip of polypile weatherstrip (12.7 mm (0.500") high) was located at the meeting stiles. Two (2) strips of center fin weatherstrip (6.35 mm (0.250") high) were located at the frame perimeter.

Weeps: One (1) weep hole measuring 4.76 mm (3/16") in diameter was located at each end of the screen retainer track. One (1) weep hole measuring 9.53 mm (3/8") x 6.35 mm (1/4") was located at each end of the interior sill track. One (1) weep hole measuring 12.7 mm (1/2") x 6.35 mm (1/4") was located at each end of the exterior sill track. One (1) weep hole measuring 12.7 mm (1/2") x 6.35 mm (1/4") was located at each end of the sill face. One (1) weep hole measuring 9.53 mm (3/8") x 6.35 mm (1/4") was located at 88.9 mm (3-1/2") from each end of the bottom rails.

Interior & Exterior Surface Finish: White vinyl (PVC).

Sealant: No apparent sealant applied.

Insect Screen: No screen employed.

Installation: The specimen was installed into a standard grade 50.8 mm (2") by 254 mm (10") lumber test buck. The specimen was secured to the buck with 25.4 mm (1") roofing nails through every pre-punched hole in the nail fin. The exterior perimeter was sealed with a silicone sealant.

TEST RESULTS

<u>Par. No.</u>	<u>Title of Test & Method</u>	<u>Measured</u>	<u>Allowed</u>
5.3.1.1	Operating Force - ASTM E 2068		
	Interior Panel Initiate Open	62.28 N (14 lbf)	-----
	Maintain Open	35.59 N (8 lbf)	90 N (20 lbf)
	Initiate Close	53.38 N (12 lbf)	-----
	Maintain Close	75.62 N (7 lbf)	90 N (20 lbf)
	Exterior Panel Initiate Open	40.03 N (9 lbf)	-----
	Maintain Open	35.59 N (8 lbf)	90 N (20 lbf)
	Initiate Close	53.38 N (12 lbf)	-----
	Maintain Close	26.69 N (6 lbf)	90 N (20 lbf)
5.3.1.1.3	Latch Operation - Opening / Closing	31 N (7 lbf)	100 N (22.5 lbf)
5.3.6.3	Deglazing - ASTM E 987		
	Interior Panel		
	Top Rail (230 N/50 lbf)	6.0 % (0.76 mm / 0.030")	<90%
	Bottom Rail (230 N/50 lbf)	5.6 % (0.71 mm / 0.028")	<90%
	Jamb Stile (320 N/70 lbf)	4.0 % (0.51 mm / 0.020")	<90%
	Meeting Stile (320 N/70 lbf)	2.8 % (0.36 mm / 0.014")	<90%
	Exterior Panel		
	Top Rail (230 N/50 lbf)	7.4 % (0.94 mm / 0.037")	<90%
	Bottom Rail (230 N/50 lbf)	7.8 % (0.99 mm / 0.039")	<90%
	Jamb Stile (320 N/70 lbf)	3.4 % (0.43 mm / 0.021")	<90%
	Meeting Stile (320 N/70 lbf)	4.2 % (0.53 mm / 0.017")	<90%
5.3.2	Air Infiltration - ASTM E 283		
	75 Pa - (1.6 psf) (25 mph)	0.5 L / (sec • m ²) (0.1 cfm / ft ²) (0.13 cfm / ft ²) measured	1.5 L / (sec • m ²) (0.3 cfm / ft ²)
5.3.3	Water Penetration - ASTM E 547		
	3.4 L / (min • m ²) 5.0 gph / ft ² WTP= 140 Pa (2.9 psf)	No Leakage	No Leakage
5.3.4.2	** Uniform Load Deflection - ASTM E 330		
	720 Pa (15.0 psf) Exterior	5.46 mm (0.215")	----
	720 Pa (15.0 psf) Interior	5.89 mm (0.232")	----
5.3.4.3	** Uniform Load Structural - ASTM E 330		
	1080 Pa (22.5 psf) Exterior	0.36 mm (0.014")	3.99 mm (0.157")
	1080 Pa (22.5 psf) Interior	0.46 mm (0.018")	3.99 mm (0.157")