



NATIONAL CERTIFIED TESTING LABORATORIES

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REMODELERS SUPPLY CENTER
AAMA/ WDMA/ CSA 101/ I.S.2/ A440-05
TEST SUMMARY REPORT

Report No: *NCTL-110-12879-1S*
Expiration Date: *04/30/14*

Test Specimen

Manufacturer: *Remodelers Supply Center*

Product Type: *Fixed Lite Vinyl Prime Window*

Series/Model: *Series "2000"*

Primary Product Designation: *FW-R75 1219.2 x 1219.2 (48 x 48)*

Optional Product Designation: *Not Applicable*

Test Completion Date: *04/30/10*

Reference should be made to Structural Performance Test Report Number NCTL-110-12879-1 for complete specimen description and test data.

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Technician



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STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-110-12879-1
Test Date: 04/30/10
Report Date: 05/06/10
Expiration Date: 04/30/14

Client: Remodelers Supply Center
2622 North Pulaski
Chicago, IL 60639

Test Specimen: Remodelers Supply Center's Series "2000" Fixed Lite Vinyl Prime Window (FW-R75 1219.2 x 1219.2 (48 x 48)).

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 fixed lite vinyl prime window measuring 1219.2 mm (48") wide by 1219.2 mm (48") high overall. The fixed lite was glazed to the frame members, providing a viewing area of 1111.25 mm (43-3/4") wide by 1111.25 mm (43-3/4") high. The frame was of welded mitered corner construction.

Glazing: The fixed lite was interior glazed using sealed insulating glass with two (2) leaf dual durometer and silicone back-bedding and a snap-in two (2) leaf dual durometer rigid vinyl glazing bead. The overall insulating glass thickness was 25.4 mm (1") consisting of two (2) lites of 3 mm double strength annealed glass and one (1) air-filled space created by a coated U-shaped steel spacer system (CU-D).

Weatherseals: No weatherseals employed.

Weeps: One (1) weep hole measuring 25.4 mm (1") x 6.35 mm (1/4") and employing a plastic weep cover was located at 215.9 mm (8-1/2") from each end of the exterior sill face.

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

Sealant: The glazing bead was sealed to the frame and glass with a silicone sealant.

Installation: The specimen was installed into a standard grade 50.8 mm (2") x 254 mm (10") lumber test buck. The specimen was secured to the buck with 12.7 mm (1/2") x 19.05 mm (3/4") blind stop. The blind stop was full length at the exterior perimeter and cut back approximately 152.4 mm (6") from each end of the interior perimeter. The blind stops were fastened with staples. The exterior perimeter of the specimen was sealed to the buck with a silicone sealant.

TEST RESULTS

<u>Par. No.</u>	<u>Title of Test & Method</u>	<u>Measured</u>	<u>Allowed</u>
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) (<0.01 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 720 Pa (15.0 psf) Interior	0.18 mm (0.007") 0.23 mm (0.009")	---- ----
5.3.4.3	** Uniform Load Structural - ASTM E 330 1080 Pa (22.5 psf) Exterior 1080 Pa (22.5 psf) Interior	0.03 mm (0.001") 0.03 mm (0.001")	4.88 mm (0.192") 4.88 mm (0.192")
5.3.5	Forced Entry Resistance Test - ASTM F 588 Grade 10	Meets As Stated	
5.3.6.2	Thermoplastic Corner Weld Test - ASTM D 618	Meets As Stated	

OPTIONAL PERFORMANCE

4.4.2.6	Water Penetration - ASTM E 547 3.4 L/(min • m ²) 5.0 gph/ft ² WTP= 540 Pa (11.25 psf)	No Leakage	No Leakage
4.4.2.6	** Uniform Load Deflection - ASTM E 330 3600 Pa (75.0 psf) Exterior 3600 Pa (75.0 psf) Interior	0.58 mm (0.023") 0.97 mm (0.038")	---- ----
4.4.2.6.2	** Uniform Load Structural - ASTM E 330 5400 Pa (112.5 psf) Exterior 5400 Pa (112.5 psf) Interior	0.03 mm (0.001") 0.10 mm (0.004")	4.88 mm (0.192") 4.88 mm (0.192")

* Tested with and without insect screen

** No glass breakage or permanent damage causing the unit to be inoperable

TEST COMPLETED 04/30/10

The tested specimen meets (or exceeds) the performance level specified in AAMA/WDMA/CSA 101/I.S.2/A440-05 for air leakage resistance. The listed results were secured by using the designated test methods and indicate compliance with the performance requirements of the referenced specification paragraphs for the FW-R75 1219.2 x 1219.2 (48 x 48) product designation.

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 the particular specimen tested and do not imply the quality of similar or identical products manufactured or installed from specifications identical to the tested product. The test specimen was supplied to NCTL by the above named client. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen are to be drawn from the ASTM E 330 test. Foam tape is mounted to the perimeter of the test buck prior to clamping to the test wall. 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. Component drawings were reviewed for product verification. The bill of materials contains details with any deviations noted. Ambient conditions during the referenced testing are available upon request. 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 full compliance with the referenced specifications and/or test methods. This report may not be reproduced, except in full, without the written consent of NCTL.

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Technician



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

APPENDIX A
Forced Entry Resistance Test Results

Test Method: ASTM F 588-07, "Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact". Grade 10

TEST RESULTS

<u>Paragraph No.</u>	<u>Loads</u>	<u>Duration</u>	<u>Measured</u>	<u>Allowed</u>
<i>A2.1 Disassembly Test</i>	<i>N/A</i>	<i>5 Minutes</i>	<i>No Entry</i>	<i>No Entry</i>
<i>A2.3 Sash Manipulation</i>	<i>N/A</i>	<i>5 Minutes</i>	<i>No Entry</i>	<i>No Entry</i>