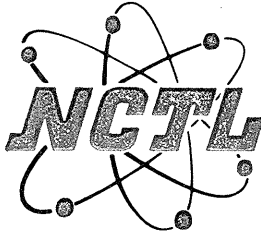


MILCO BUILDING PRODUCTS
STRUCTURAL PERFORMANCE TEST REPORT

Series "7000/8000" Fixed Lite Prime Window

NCTL 210-2729-2

Gary D. Palmer
3/5/02



NATIONAL CERTIFIED TESTING LABORATORIES

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STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-210-2729-2
Test Date: 11/09/01
Report Date: 11/09/01

Client: Milco Building Products
318 Modoc Road
Swainsboro, GA 30401

Test Specimen: Milco Building Product's "Series 7000/8000" Fixed Lite Prime Window (F-R65).

Test Method: AAMA/NWWDA 101/I.S. 2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC), and Wood Windows and Glass Doors."

TEST SPECIMEN DESCRIPTION

General: The test specimen was an aluminum fixed lite prime window measuring 59" wide by 72" high overall. The fixed lite was glazed to the frame members, providing a viewing area of 56-15/16" wide by 69-3/16" high. The frame members were not thermally broken and were of butt-type double screw corner construction.

Glazing: The fixed lite was interior glazed using 0.187" thick tempered glass with a double stick foam tape back-bedding and an extruded aluminum glazing bead.

Weeps: N/A

Interior & Exterior Surface Finish: White painted aluminum.

Sealant: The frame corners were sealed with a silicone sealant.

Darryl Perkins
3/5/02

TEST RESULTS

<u>Par. No.</u>	<u>Title Of Test</u>	<u>Measured</u>	<u>Allowed</u>
2.1.2	Air Infiltration - ASTM E283 1.57 psf (25 mph)	<0.01 cfm/ft ²	0.3 cfm/ft
2.1.3	Water Resistance - ASTM E547/E331 5.0 gph/ft ² WTP = 12.0 psf	No Leakage	No Leakage
2.1.4.2 **	Uniform Load Structural - ASTM E330 75.0 psf Exterior 75.0 psf Interior	0.019" 0.045"	0.288" 0.288"
2.1.8	Forced Entry Resistance - ASTM F588 Level 10 (See Appendix A for test results)	Meets as Stated	

OPTIONAL PERFORMANCE

4.4.2 **	Uniform Load Structural - ASTM E330 97.5 psf Exterior 97.5 psf Interior	0.040" 0.049"	0.288" 0.288"
**	No glass breakage or permanent damage causing the unit to be inoperable		

TEST COMPLETED 11/09/01

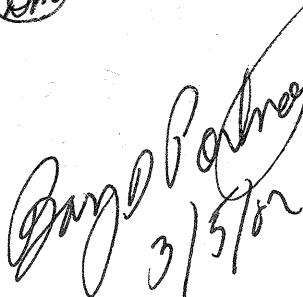
This test specimen meets (or exceeds) the performance levels specified in Table 2.1 of AAMA/NWWDA 101/I.S. 2-97 for air infiltration. The listed results were secured by using the designated test methods and indicate compliance with the performance requirements of the referenced specification paragraphs for the F-R65 product designation.

Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four (4) years. The results obtained apply only to the specimen tested. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen may be drawn from this test. This report does not constitute certification of the product which may only be granted by a certification program validator.

NATIONAL CERTIFIED TESTING LABORATORIES

Daniel D. Conyers 

DANIEL D. CONYERS
Laboratory Manager


3/5/02

APPENDIX A

Forced Entry Resistance Test Results

Test Method: *ASTM F588-85 (94), "Standard Test Method for Resistance of Window Assemblies to Forced Entry, Excluding Glazing."*

TEST RESULTS

<u>Paragraph No.</u>	<u>Loads</u>	<u>Duration</u>	<u>Measured</u>	<u>Allowed</u>
10.2.4.2		5 Minutes	No Entry	No Entry

Darryl Portno
3/5/02