



ETC Laboratories

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Prepared for:

MGM Window Company
287 Freehill Road
Hendersonville, TN 37075

Series/Model:

5000 Series Brickmold

Report Number:

ETC-96-001-3046.0-243.0

Job Number:

ETC-96-001-3262-1

Type: Single Hung, O/X
Frame Size: 36 in. wide by 60 in. high
Sash: 34 1/8 in. wide by 30 3/8 in. high
Day Light Opening: 32 in. wide by 27 in. high

Test Start Date: 8/20/96
Test Finish Date: 10/7/96
Report Date: 10/9/96
Expiration Date: 10/9/00

The product tested was a vinyl window with 5/8" overall insulated glass units, single strength annealed glass, and aluminum reinforcement in the fixed meeting rail.

Summary of ASTM D 4099-89 Test Results

Air Infiltration Test:

0.28 scfm/ft

Water Resistance Test:

4.00 psf Grade 40

Uniform Load Structural Test:

45.0 psf Grade 30

Overall Performance:

Grade -30

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Jonathan Post
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Test Technician

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Sergio Rueda

Sergio Rueda, Manager

Person in Responsible Charge



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SECTION ONE: TEST RESULTS

SPECIFICATION: The test specimen was evaluated in accordance with ASTM D 4099-89 Standard Specification for Poly (Vinyl Chloride) (PVC) Prime Windows/Sliding Glass Doors."

<u>PARAGRAPH</u>	<u>TITLE OF TEST</u>	<u>RESULTS</u>	<u>ALLOWED</u>
8.4	Operating Force Sash: open close	18 lbf 14 lbf	35 lbf 35 lbf
8.1	Air Infiltration Test Pressure = 1.57 psf	0.28 scfm/ft	0.37 scfm/ft
8.2	Water Resistance Test (with and without screen) Test Pressure = 4.00 psf	Grade 40 Pass	No leakage past innermost plane
8.3	Uniform Load Structural Test Test Pressure = 45.0 psf Test Pressure = 45.0 psf	Grade 30 (positive) (negative)	0.005 in. 0.137 in. 0.010 in. 0.137 in.
8.5	Deglazing Test (1) Sash: Top Rail Load = 70 lbf Bottom Rail Load = 70 lbf Left Stile Load = 50 lbf Right Stile Load = 50 lbf	13% 11% 13% 13%	< 100% < 100% < 100% < 100%

NOTE: (1) Deglazing was done on a sash 42" wide by 30 5/8" high, and the sash was wet glazed with silicone backbedding in the pocket of the sash members along the edge of glass and spacer.

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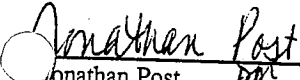
The product tested is detailed in the drawings located in the annex of this report which were supplied by the manufacturer to this laboratory. The general description in the annex of the report was supplied by the manufacturer and compared to the product tested.

Detailed drawings showing wall thicknesses of all members are on file and have been compared to the sample submitted. A copy of this report and samples will be retained by ETC Laboratories for a period of four years from date of test.

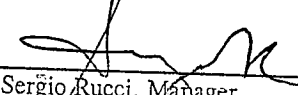
The above results were secured by using the designated test methods and they do indicate compliance with the performance requirements of the above referenced specification paragraphs.

ETC Laboratories makes no opinions or endorsements regarding this product and its performance. This report may not be reproduced or quoted in partial form without the approval of ETC Laboratories. No conclusions of any kind regarding the adequacy of the glass in the test specimen may be drawn from the test. Procedure "A" in ASTM E 330 was used for this test.

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