

MGM INDUSTRIES INC.
287 Freehill Road
Hendersonville, TN 37075

TEST REPORT

Report No: 8005PD
Test Date: 05/02/2005
Report Date: 05/16/2005
Expiration Date: 05/02/2009

Project Summary: MGM Industries, conducted performance tests at the testing facility in Hendersonville TN. Testing was completed on one Series/Model 8005 (PVC) Sliding Glass Door. The sample tested successfully met the performance requirements for a SGD-R35 (6068) rating. Test specimen description and results are reported herein.

Test Procedure: The test specimen was evaluated in accordance with the following: AAMA/NWDA 101/I.S. 2-97, "*Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*"

Test Specimen Description:

Series/Model: 8005PD

Type: Vinyl Sliding Glass Door

Overall Size: 73" wide by 80 1/4" high

Fixed Panel Size: 36" wide 77-14" high

Operable Panel Size: 36" wide by 77-1/4" high

Screen Size: 36" wide by 78" high

Glazing Type: Clear tempered

Finish: White PVC and a white aluminum sill

Glazing Details:

Nominal 3/4" thick sealed insulating glass fabricated from two 1/8" thick clear tempered sheets separated by an Intercept spacer system. Both the fixed and operable panels were exterior glazed and secured by wet glazing silicone with sap-in dual-durometer glazing beads.

Test Specimen Description (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.300" high by 0.270" back polypile with center fin.	1 row	Meeting stiles
0.300" high by 0.270" back polypile with center fin.	2 rows	Intermediate leg of head & jamb
.360" high by 0.187" back polypile with center fin.	1 row	Interior side on threshold

Frame Construction: The head and jambs were fabricated from PVC extrusions. The corners were mitered and thermally welded. The sill/jambs were coped, butted, sealed (Silicone) and fastened with three screws (#8 by 2-1/2" steel) per end. The fixed panel was secured (at head) by utilizing three #8 steel screws. The fixed stile was secured by #8 by 1" steel screws through the jamb (6" down from the head, 6" up from the sill and at midpoint). The aluminum sill utilized a thermal break.

Panel Construction: Both panels were fabricated from PVC extrusions. All corners were mitered and thermally welded. The meeting stiles utilized snap-in PVC interlocks.

Screen Construction: The screen was fabricated from roll-formed members. The corners were mitered and assembled with PVC corner keys and two screws per key. The mesh cloth was held in place with a flexible spline. The pull stile employed a handle with a single locking mechanism.

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal handle	1	Center of the locking stile with Keeper
Locking mechanism		Aligned and secured to the jamb
Roller assembly with	2	Bottom rail of the active panel

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Weep baffle	2	Bottom exterior leg of threshold
Weep hole	2	Bottom interior leg of threshold

Reinforcement: Both meeting stiles and lock stile employed 18 guage galvanized steel reinforcement. Interlocks have double reinforcements.

Installation: The test specimen was fastened to a 2" by 10" yellow pine wood buck, using #10 by 1" steel screws in jambs spaced approximately 12", #10 by 1" steel screws in head spaced approximately 12", (22 total). Exterior was sealed with silicone sealant.


Test Results: The results are tabulated as follows.

<u>Paragraph</u>	<u>Title of Test-Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.19.51	Operating force Open Motion	24 lbs. 17 lbs.	30 lbs. max. 20 lbs. max
2.1.2	Air Infiltration per ASTM E 283 (See Note) @ 1.57 psf (25 mph)	0.28 cfm/ft ²	0.3 cfm/ft ² max
<i>Note: The tested specimen meets (or exceeds) the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.</i>			
2.1.3.	Water Resistance per ASTM E 547-96 (With and without screen) WTP = 5.25 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the meeting stile) @ 52.5 psf (exterior) @ 52.5 psf (interior)	0.14" 0.18"	0.31" max 0.31" max
2.2.19.5.2	Deglazing Test per ASTM E 987 In operating direction at 70 lbs. Pull stile Locking stile In remaining direction at 50 lbs. Top rail Bottom rail	0.062"/12.4% 0.046"/9.2% 0.046"/9.2% 0.046"/9.2%	0.500"/100% 0.500"/100% 0.500"/100% 0.500"/100%

<u>Paragraph</u>	<u>Title of Test – Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per ASTM F 842 Type A Grade 10		

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by MGM for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product which may only be granted by the certification program administrator.

MGM Industries, Inc.


Randy J. Graves
Manufacturing Engineer