

**AAMA/NWDA 101/L.S.2-97  
TEST REPORT SUMMARY**

**Rendered to:**

**SILVER LINE BUILDING PRODUCTS  
CORPORATION**

**SERIES/MODEL: 5500  
TYPE: PVC Sliding Glass Door (OXO)  
RATING: SGD-LC35 144 x 80**

<b>Title of Test</b>	<b>Results</b>
Overall Design Pressure	35 psf
Operating Force	17 lb max.
Air Infiltration	0.06 cfm/ft <sup>2</sup>
Water Resistance	5.25 psf
Structural Test Pressure	±52.5 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-34723.05 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.



Adam A. Fodor, Technician

AAF:nlb



130 Derry Court • York, PA 17402-9405  
web [www.testati.com](http://www.testati.com) • Facsimile 717-764-4129 • Telephone 717-764-7700

**AAMA/NWWDA 101/I.S.2-97 TEST REPORT**

Rendered to:

SILVER LINE BUILDING PRODUCTS CORPORATION  
One Silver Line Drive  
North Brunswick, New Jersey 08902

Report No: 01-34723.05  
Test Date: 05/10/99  
And: 09/03/99  
And: 04/07/00  
Report Date: 05/01/00  
Expiration Date: 09/03/03

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted to witness tests on a Series/Model 5500, PVC sliding glass door (OXO) at Silver Line Building Products' test facility in North Brunswick, New Jersey. The sample tested successfully met the performance requirements for an SGD-LC35 144 x 80 rating. Test specimen description and results are reported herein.

**Test Procedure:** The test specimen was evaluated in accordance with the following:

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

**Test Specimen Description:**

**Series/Model:** 5500

**Type:** PVC Sliding Glass Door (OXO)

**Overall Size:** 12' 0" wide by 6' 8" high

**Active Panel Size:** 3' 11-1/2" wide by 6' 5-1/2" high

**Fixed Daylight Opening Size (2):** 3' 7" wide by 6' 1" high

**Screen Size:** 3' 11-1/2" wide by 6' 6" high

**Finish:** All PVC was white.

**Test Specimen Description: (Continued)**

**Glazing Details:** All of the panels utilized 1" thick sealed insulating glass units fabricated from two sheets of 1/8" tempered transparent glass and a dessicant filled metal spacer system. The lites were exterior glazed onto silicone bedding and secured with PVC snap-in glazing beads.

**Weatherstripping:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.210" high by 0.270" wide backed polypile with center fin	1 Row	Perimeter of all panels and frame, astragal
0.400" high by 3/4" wide by 1" long (4 rows) polypile dustpad with center fins	2	Top and bottom of fixed interlock

**Frame Construction:** The heads and jambs were constructed of extruded PVC members, while the sill was constructed of an extruded aluminum member. All corners of the frame were coped, butted, sealed and fastened with three screws each. A vinyl parting strip and extruded aluminum threshold were utilized in the sill. The dead lite jamb/stile was attached to the jamb with four screws, and the extruded aluminum astragal was fastened to the dead lite stile with four screws. The fixed panel jamb/stile was fastened to the opposite jamb with three plastic clips utilizing four screws each.

**Panel Construction:** The panels were constructed of extruded PVC members with mitered and welded corners.

**Screen Construction:** The screen was constructed of rolled aluminum members with plastic keyed corners. The fiberglass mesh was secured with a flexible spline.

**Hardware:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Lock handle assembly	1	Midspan of lock stile
Metal roller assembly	2	Each end of active bottom rail

**Test Specimen Description: (Continued)**

**Drainage:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
1-3/8" wide by 1/4" high weepslot	1	Midspan of sill in intermediate sill leg draining interior sill track into exterior sill track
1" wide by 1/4" high weepslot	2	One in each end of sill face draining exterior sill track

**Reinforcement:** A 0.125" thick by 1-3/16" wide steel bar was utilized full-length in the dead lite stiles, active panel lock stile, active and fixed meeting stiles. In addition to the steel bar, the active and fixed meeting stiles utilized a 0.060" thick 1-3/32" high by 1-3/8" high steel channel reinforcement.

**Installation:** The test unit was installed into the 2" x 8" wood test buck with 2" screws; four in the sill, eight in the head and five in each jamb, all evenly spaced. The interior perimeter was blind stopped with wood members, and the exterior perimeter was sealed with silicone.

**Test Results:**

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.19.5.1	Operating Force To open Keep in motion	17 lbs 10 lbs	30 lbs max. 20 lbs max.
2.1.2	Air Infiltration per ASTM E 283 (See Note #1) @ 1.57 psf (25 mph)	0.06 cfm/ft <sup>2</sup>	0.3 cfm/ft <sup>2</sup> max.
2.1.3	Water Resistance per ASTM E 547 (with and without screen) WTP = 3.75 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the fixed meeting rail) @ 37.5 psf (exterior) @ 37.5 psf (interior)	0.01" 0.07"	0.31" max. 0.31" max.

*Note #1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/NWDA 101/I.S. 2-97 for air infiltration.*

**Test Results: (Continued)**

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.19.5.2	Deglazing Test per ASTM E 987 In operating direction at 70 lbs		
	Lock stile	0.06"/12%	0.50"/100%
	Active meeting stile	0.06"/12%	0.50"/100%
	In remaining direction at 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per ASTM F 842-97		
	Type: B Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test B1 thru B5	No entry	No entry
	Test B7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
<u>Optional Performance</u>			
4.3	Water Resistance per ASTM E 547 (with and without screen) WTP = 5.25 psf	No leakage	No leakage
4.4.2	Uniform Load Structural per ASTM E 330 (Measurements reported were taken on the fixed meeting rail)		
	@ 52.5 psf (exterior)	0.08"	0.31" max.
	@ 52.5 psf (interior)	0.10"	0.31" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI 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.

For ARCHITECTURAL TESTING, INC:



Adam A. Fodor  
Technician



Bruce W. Croak  
Director - Product/Physical Testing

AAF:nlb  
01-34723.05