



Architectural Testing

**FIELD TEST REPORT**

Rendered to:

WINDOW REPAIR SYSTEMS, INC.  
788 Old Dutch Road  
Victor, New York 14564

**Project Identification:** IS 52, 681 Kelly St.  
Bronx, New York

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted by Window Repair Systems, Inc. to perform field cycle testing on one remediated window at the above referenced project. The purpose of the testing was to life cycle the bottom sash of a Riverview Architectural Products' aluminum double hung window in order to evaluate the proper operation and durability of the remediated balance system. The specimen tested met the NYCSCA performance requirements listed herein.

**Reference Documents:** The field testing for this project was conducted in accordance with the attached ATI Letter dated February 7, 2001 to Mr. Gary Rosbrook of Window Repair Systems. The referenced AAMA document is AAMA 910-93, "*Voluntary Life Cycle Specifications and Test Methods for Architectural Grade Windows and Sliding Glass Doors*".

**Performance Criteria:** (Provided by the New York City School Construction Authority)

No functional damage shall occur during or after the completion of the required 2500 cycles, nor shall the balances disengage from the shoes while testing is being performed.

**Remedial Work:** Attached to this report is a copy of the NYCSCA Specification No. 08525 titled "Window Retrofit for Ultralife Plastic Carrier". Window Repair Systems, Inc. reported that the remedial work performed on this test specimen is as outlined in the attached specification.

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**TEST RESULTS**  
**Date: 02/07/01 through 02/10/01**

**Test Specimen:** (See Attached Photographs #1 and #2)

**Windows:** Riverview Architectural Products

**Remediated Balance System:** Window Repair Systems, Inc.

**Description:** Aluminum double hung window (Dual window), glazed with polycarbonate

**Bottom Sash Size:** 39-1/4" wide by 59" high

**Location:** Fourth floor, Room 410, third window from right, interior bottom sash

*General Note: The original factory installed balance system was removed and replaced by Window Repair Systems, Inc. with a remediated balance system.*

<u>Title of Test</u>	<u>Test Results</u> (Operating Force Up/Down)	<u>Allowable</u>
No Cycles	(4-1/2# up, 13# down)	
Life Cycle Tests (See Note #1)		
1st 500 cycles	Pass (10# up, 16# down)	No functional damage
2nd 500 cycles (1000 total) (See Note #2)	Pass (16# up, 15# down)	No functional damage
3rd 500 cycles (1500 total)	Pass (12# up, 17# down)	No functional damage
4th 500 cycles (2000 total)	Pass (13# up, 14# down)	No functional damage
5th 500 cycles (2500 total)	Pass (13# up, 15# down)	No functional damage

*Note #1: The bottom sash was initially cycled at a maximum rate of 12 lineal feet per minute with a 10 second dwell at the top and bottom positions. At the approximate midpoint of the cycle testing (1300 cycles) ATI was directed to increase the cycle speed to two complete open/close cycles per minute. At the end of each day the window remained in the closed position (overnight).*

*Note #2: Non-petroleum silicone spray was used to lubricate the jamb track after 1000 cycles. The spray was applied approximately every 250 cycles thereafter.*




**Witnesses:** The following representatives witnessed all or part of the testing.

Mitchell R. Friedman, R. A.	New York City School Construction Authority
Franklin L. Alexander	New York City School Construction Authority
Scott McCune	Window Repair Systems, Inc.
Nick Defilipo	Window Repair Systems, Inc.
Stephen Campbell	Architectural Testing, Inc.
Eric Westphal	Architectural Testing, Inc.
George DelGrande	Architectural Testing, Inc.
Jeramie Grabosch	Architectural Testing, Inc.

This report is prepared for the convenience of our customer and endeavors to provide accurate and timely project information. It contains a summary of observations made by a qualified representative of Architectural Testing, Inc. This report is intended to help in your Quality Assurance Program, but it does not represent a continuous nor exhaustive evaluation. The statements made herein do not constitute approval, disapproval, certification or acceptance of performance or materials.

A copy of this report will be retained by ATI for a period of four years. This report is the exclusive property of the client so named herein.

For ARCHITECTURAL TESTING, INC:

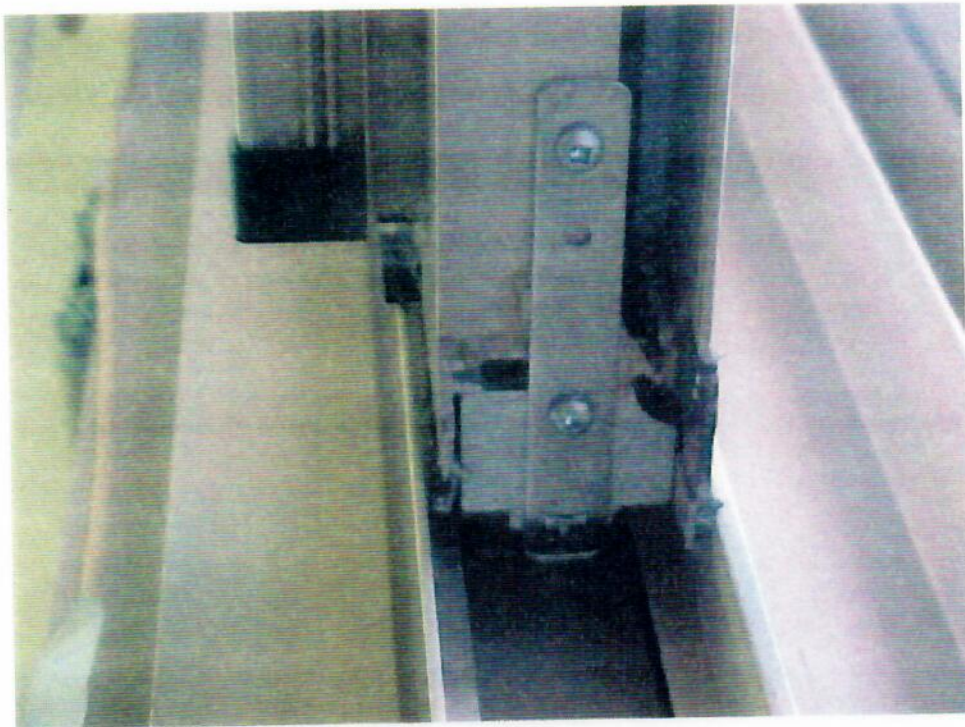
  
 Stephen M. Campbell  
 Technician

  
 Richard E. Merkert  
 Director of Field Testing Services

  
 Eric Westphal  
 Technician



**Photo #1**



**Photo #2**