



SAETY WASH SYSTEM TEST REPORT

Rendered to:

GORAL INDUSTRIES, INC.
300 South Central Park Avenue
Hartsdale, New York 10530-3153

Report No: 01-42811.01
Test Dates: 10/29/02
Through: 11/14/02
Report Date: 11/27/02
Expiration Date: 05/14/04

Product: The Safety Wash System Balance Accessory

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Goral Industries, Inc. to test and evaluate the durability of the mechanisms of "The Safety Wash System" in accordance with a modified version of AAMA 902/908, *Voluntary Specifications for Sash Balance/Friction Based Sash Balances*. The mechanisms provided were installed into two (2) full-sized glazed double hung windows, one wood and one vinyl. The windows were then installed into a balance cyler and run for 4000 cycles (requirement for sash balances). Upon completion of the cycles, the mechanisms were evaluated for failure and there was none that occurred. The windows were then individually clamped into a stationary vertical position, approximately chest high and the lower sash tilted into the cleaning position. Pushing down on a force gauge attached to the outermost portion of the window sash caused the necessary force required to break the mechanism free from its open and secured position. The safety cord system resisted a load of 68 lbs of force prior to the sash clips failing.

Test Procedure: The system components were tested in accordance with a modified version of the AAMA 902-99, *Voluntary Specification for Sash Balances*.

Representative test specimens and a copy of this report will be retained by ATI for a period of eighteen months. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.:



Rodney E. Holland
Technician II - Component/Materials Testing



Todd D. Burroughs
Director - Component/Materials Testing

REH.reh/nlb
01-42811.01