



**ROTARY OPERATOR
PERFORMANCE TEST REPORT**

Rendered to:

ACME WINDOW AND DOOR HARDWARE

SERIES: Face-Mount Single Arm - SST

PRODUCT: Rotary Window Operators

Report No.: D6113.01-106-31

Report Date: 07/21/14

Test Record Retention Date: 05/15/17



ROTARY OPERATOR PERFORMANCE TEST REPORT

Rendered to:

ACME WINDOW AND DOOR HARDWARE
777 Schwab Road
Unit J
Hatfield, Pennsylvania 19440

Report No.: D6113.01-106-31
Test Start Date: 04/30/14
Test Completion Date: 05/15/14
Report Date: 07/21/14
Test Record Retention Date: 05/15/17

Series: Face-Mount Single Arm

Product: Rotary Window Operators

Project Summary: Architectural Testing, Inc. was contracted by Acme Window and Door Hardware to conduct rotary operator cycling tests on one design of rotary window operator. This report details the results of testing and the performance capabilities for those samples tested. All operators met the requirements for C-R15, C-LC25, and Class R-PG15C. All operators complied with AAMA 907-05 for corrosion resistance of the coating.

Results Summary

Operator Model	AAMA 901	AAMA 907
Face - Mount Series - SST Single Arm (Stainless Steel)	Pass	Pass

Specimens were submitted directly to Architectural Testing by Acme Window and Door Hardware under initial submittal status.

Test Methods: The test specimens were evaluated in accordance with the following:

AAMA 901-07, Voluntary Specifications for Rotary Operators in Window Applications

AAMA 907-05, Voluntary Specifications for Corrosion Resistant Coating on Carbon Steel Components

Test Sample Description: All specimens were constructed of stainless steel as noted in the results tables. Four operators were tested by Architectural Testing, Inc. in accordance with AAMA 901 and two were evaluated in accordance with AAMA 907 for each type of operator.

Test Results Summary: Individual operator model test conditions are listed in the tables.

Operator Model	Pivot Distance of Arm (in)	Load Carried (%)
Face - Mount Series - SST (Single Arm / Stainless Steel)	13.478	100

Face - Mount Single Arm - SST			
500 Cycles		7,500 Cycles	
Operating Moment	Closing Torque	Operating Moment	Closing Torque
80 in·lb	30 in·lb	60 in·lb	30 in·lb
Single Arm		Single Arm	
P1	P2	P1	P2
5.9 lbs	11.9 lbs	4.5 lbs	8.9 lbs

Test Results: The results are reported in the following tables.

AAMA 901 Test Results

Test loads, which were used for testing to Class C-R15, C-LC25, are as follows:

Face – Mount Single Arm - SST			
Specimen No.	Cycles Completed	Window Designation	Results*
1	500 of 500 / 7,500 of 7,500	Residential Window	Pass
2	500 of 500 / 7,500 of 7,500		Pass
3	500 of 500 / 7,500 of 7,500		Pass
4	500 of 500 / 7,500 of 7,500		Pass

* All specimens must be able to raise and lower the weights through a complete cycle at the end of the test. Failure of any one operator shall constitute failure of that set of operators.

Test Results: (Continued)

AAMA 907 Test Results

Upon completion of 300 hours of exposure to ASTM B 117 conditions, the specimen visual evaluations are as follows:

Face - Mount Single Arm - SST	
Specimen No.	Results
1	Pass - No visible corrosion on operator or any attached pieces
2	Pass - No visible corrosion on operator or any attached pieces

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

Results obtained are tested values and were secured using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.:

Dennis Fassnacht, Jr.
Technician I
Components / Materials Testing

Joseph M. Brickner
Laboratory Supervisor
Components / Materials Testing

DMF:dmf/jas

Attachments (pages) This report is complete only when all attachments listed are included.
Appendix A - Photographs (2)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	07/21/14	N/A	Original report issue



D6113.03-106-31

APPENDIX A

Photographs



Photo No. 1
Face - Mount Single Arm - SST - Closed Position



Photo No. 2
Face - Mount Single Arm - SST - Open Position



Photo No. 3
Face - Mount Single Arm - SST - Before 300 Hour Salt Spray



Photo No. 4
Face - Mount Single Arm - SST - After 300 Hour Salt Spray