

**CORROSION RESISTANCE
PERFORMANCE TEST REPORT**

Rendered to:

INTEX MILLWORK SOLUTIONS, LLC

PRODUCT: Rail/Bracket Interface

DRAFT 02-01-10

Report No: 96909.01-106-31
Report Date: 02/01/10
Expiration Date: 01/20/14

CORROSION RESISTANCE PERFORMANCE TEST REPORT

Rendered to:

INTEX MILLWORK SOLUTIONS, LLC
34 West Black Horse Pike
Williamstown, New Jersey 08094

Report No: 96909.01-106-31
Test Dates: 12/09/09
Through: 01/20/10
Report Date: 02/01/10
Expiration Date: 01/20/14

Product: Rail/Bracket Interface

Project Summary: Architectural Testing, Inc. was contracted by INTEX Millwork Solutions, LLC to conduct a corrosion resistance evaluation on six (6) assembled specimens of painted rail ends and brackets. This report details the test methods utilized and the performance of the specimens exposed to 1000 hours of continuous salt fog as defined by ASTM B 117-07a, *Standard Practice for Operating Salt Spray (Fog) Apparatus*. Minor chips developed on two of five gasketed specimens and on the non-gasketed specimen after five weeks of exposure (approximately 840 hours). No chip measured greater than 1/16" inch in size.

Test Specimens: Six specimens were provided to Architectural Testing for use in this program. Each specimen was comprised of a painted rail segment that measured 4" long by 1" high by 2-3/16" wide. A 1/8" thick stainless steel plate was secured to the end of each rail segment with four 1-1/4" long stainless steel screws. One specimen joint placed the aluminum rail in direct contact with the stainless steel bracket. The remaining five specimens utilized a foam gasket to provide an electrogalvanic barrier between the two metals.

Test Procedure: All specimens were placed in a salt spray exposure chamber configured to operate at a temperature of 38°C while atomizing a 5% salt water solution as detailed by ASTM B 117. After the completion of each consecutive week of exposure, the specimens were examined for blistering, pitting and general condition. Observations were made specific to the interface of the joint and the paint condition along the main face of the rail segments.

Test Results: The individual weekly observations are reported in the following table.

Salt Spray Exposure

Week No.	1	2	3	4	5	6 (1000 hours)
Condition	No Change				Chips on control and samples 3 and 5	No further change

See photos in Appendix A for visual depiction of chips.

Data sheets, representative samples of test specimens, and a copy of this test report will be retained by Architectural Testing for a period of four years from the original test date. At the end of this retention period such materials shall be discarded without notice and the service life of this report by Architectural Testing will expire. 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.

For ARCHITECTURAL TESTING, INC.:

Todd D. Burroughs - Senior Project Engineer
Components / Materials Testing

Gary Hartman, P.E. - Director
Components / Materials Testing

TDB:tdb/nlb

Attachments (pages) This report is complete only when all attachments listed are included.
Appendix A - Photographs (1)

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Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	02/01/10	N/A	Original report issue.

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APPENDIX A

Photographs

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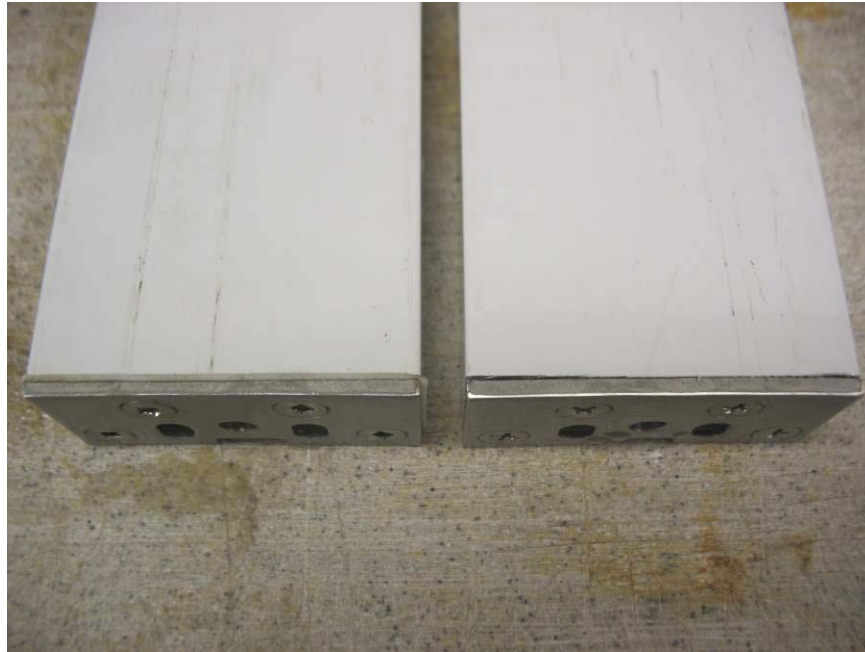


Photo No. 1
Specimen 1 Gasketed (L) and Non-gasketed (R) Specimen - Prior to Test

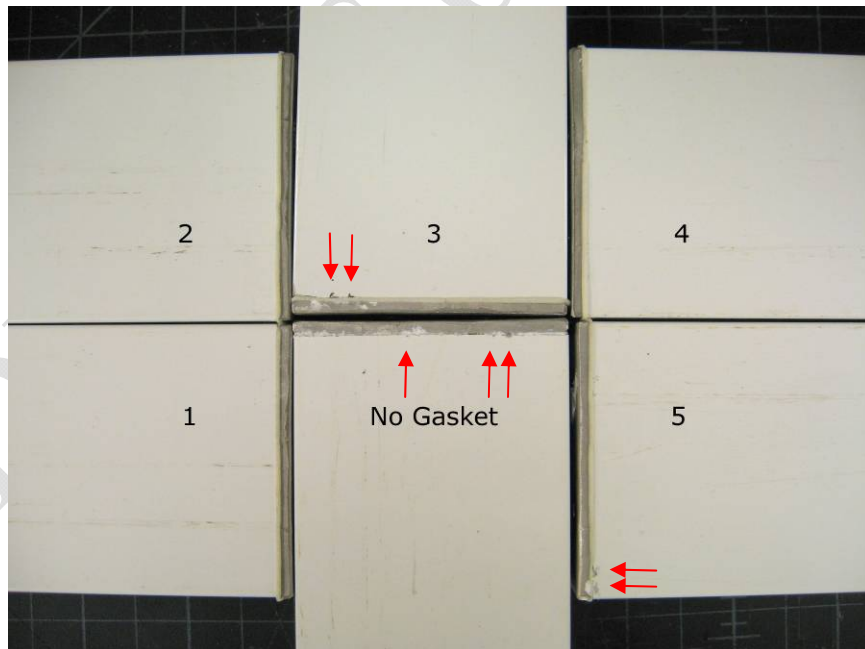


Photo No. 2
Specimens after 1000 hours (Red arrows indicate chip locations)