



PERFORMANCE TEST REPORT

Rendered to:

FABRAL METAL WALL AND ROOFING SYSTEMS

SERIES/MODEL: Stand 'N Seam

PRODUCT TYPE: Aluminum Roof Panels

Report No.: 63452.01-109-44

Test Date: 02/28/06

Report Date: 03/15/06

Expiration Date: 02/28/10

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Rendered to:

FABRAL METAL WALL AND ROOFING SYSTEMS
3449 Hempland Road
Lancaster, Pennsylvania 17601

Report No.: 63452.01-109-44
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Project Summary: Architectural Testing, Inc. (ATI) was contracted by Fabral Metal Wall and Roofing Systems to perform testing on a Series/Model Stand 'N Seam, aluminum roof panels. Test specimen description and results are reported herein.

Test Methods: The test specimen was evaluated in accordance with ASTM E 2140-01, *Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head*.

Test Specimen Description:

Series/Model: Stand 'N Seam

Product Type: Aluminum Roof System

Overall Size: 5' 4" wide by 8' 9-1/4" high

Roof Panel Description: The roof system consisted of three (3) full width panels and two (2) partial width panels. The aluminum panels measured 0.032" thick, 16" wide by 105-1/4" long. The partial panels on the ends were only 8" wide. The panel had two raised areas that ran parallel with the panel and were located 5" from each end. Each side of the panel utilized a 90° upright bend and another 90° lateral bend at the top. The side of the panel where the clip was attached had a roll-formed ledge on it so that the clip could interlock to it. The first panel was a partial panel with one edge cut off. The panels were secured with stainless steel clips that measured 3/4" on the bottom, at the screw locations, and then went upright 90°, 3/4" high. The clips were bent another 90° downward forming the part of the clip that interlocked with the panel. The next panel was put in place and overlapped the previous panel. The panels were seamed together utilizing a mechanical seamer, forming a 180° seam at the overlap.

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Page 3 of 4**Test Specimen Description:** (Continued)

Installation: The panels were installed into a wood test buck. The buck utilized one purlin, placed perpendicular to the panel seams and located in the middle of the buck. The ends of the panels were secured with #12 x 1" self-tapping hex head screws, located 2" from each end and one at midspan (Reference Photo No. 2). The sides of the partial width panels were fastened with the same screws as the ends, located 12" on center (Reference Photo No. 3). The panels' clip was located at the purlin and was fastened with one #12 x 1" self-tapping pan head screw (Reference Photo No. 4). Butyl sealant was utilized along each panel to panel seam and around the perimeter.

Test Results:

The results are tabulated as follows:

<u>Test Method</u>	<u>Title of Test</u>	<u>Results</u>
ASTM E 2140	Water Resistance	
	1 Hour	No leakage
	3 Hours	No leakage
	6 Hours	No leakage

Representative samples of the test specimen and a copy of this report will be retained by ATI for a period of four years from the original test date. 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 approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Jeramie D. Grabosch

Jeramie D. Grabosch
Technician

JDG:jdg/vlm

Attachment (pages):

Appendix-A: Photographs (2)

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E.
Senior Project Engineer



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Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	03/15/06	N/A	Original report issue



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Appendix A
Photographs

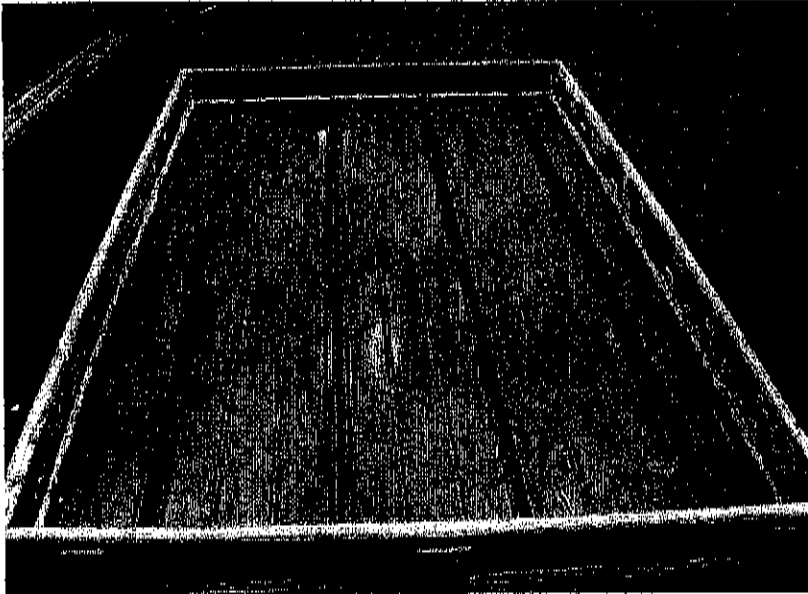


Photo No. 1
Roof Panels

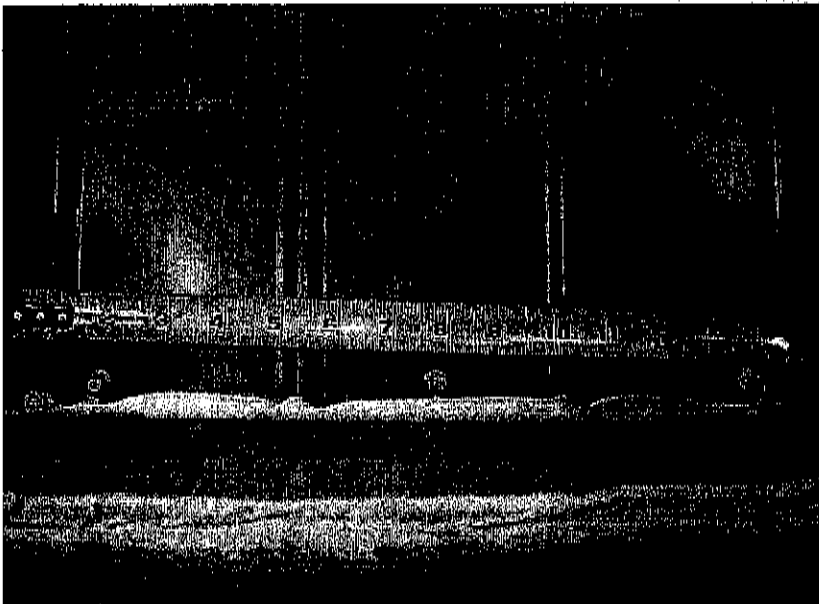


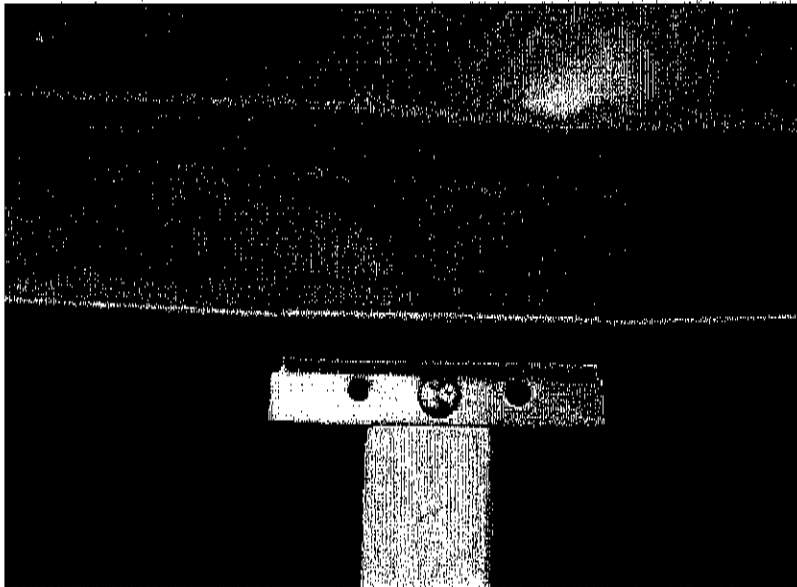
Photo No. 2
Installation



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**Photo No. 3
Installation**



**Photo No. 4
Installation**