

ENVIRONMENTAL TEST REPORT

Rendered to:

G. P. WILLIAMS INC.

SERIES/MODEL: Drain Plain Siding Backer
PRODUCT TYPE: HDPE Cladding Spacer

Report No.:	76985.01-201-23
Test Dates:	09/24/2007
Through:	09/27/2007
Report Date:	10/12/2007
Expiration Date:	09/24/2011

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G.P. Williams Inc.
5858 Blackshire Path
Inver Grove Heights, Minnesota 55076

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Project Summary: Architectural Testing, Inc. (ATI) was contracted by G. P. Williams Inc. to perform testing on a wall mock-up. Test specimen description and results are reported herein.

Test Procedure: The sample was installed into the environmental exposure chamber and subjected to the following temperature cycle on both interior and exterior sides.

1. Cool the specimens from 73°F ±5°F to -22°F ±5°F in 2 hours
2. Maintain the specimens at -22°F ±5°F next 2 hours
3. Heat the specimens to 180°F ±5°F next 4 hours
4. Maintain the specimens at 180°F ±5°F next 2 hours
5. Cool the specimens to 73°F ±5°F next 2 hours

This cycle was looped 6 more times for a total of 7 cycles.

Test Specimen Description:

Product Type: HDPE Cladding Spacer

Mock-up Description: A 120" by 72" stud wall was constructed using nominal 2" x 6" studs spaced 16" on center, sheathed with 1/2" plywood, and covered with Tyvek weather barrier. Vertical strips of the HDPE Drain Plain were nailed over the Tyvek into studs with 8 penny rim-shank nails spaced every 12". Two types of siding were installed in sections and bordered with a 1" x 4" Miratec trim board. The first section was 6" fiber cement lap siding and the second a flat, one piece, fiber cement sheet. Two strips of the HDPE backer were left uncovered. (See photos)

Test Results:

- No visual or siding deformations were observed on the exposed product through completion of test. There was no significant shape change in the covered spacers to affect the appearance of the exterior siding. (See photos)

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 the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Karl A. Lips-Eakins
Technician

Daniel A. Johnson
Director of Regional Operations

KLE:mb

Attachments (pages):

Appendix A:

Photos: (14) (Pre-Test)

Photos: (8) (After-Test)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	10/12/07	N/A	Original report issue

Appendix A
Photos (Pre Test)



Photo No. 1



Photo No. 2



Photo No. 3

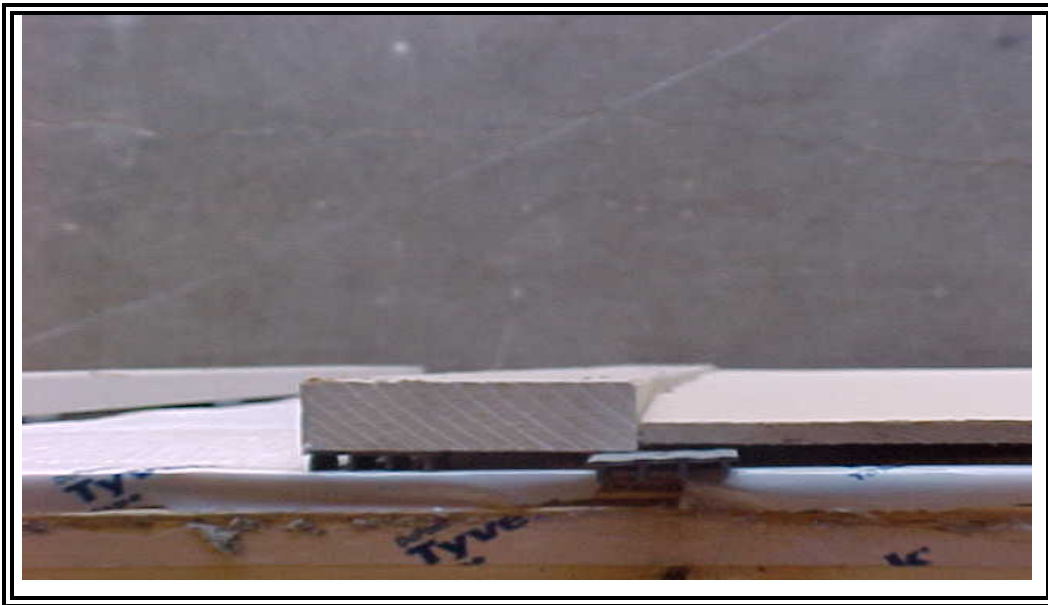


Photo No. 4



Photo No. 5



Photo No. 6



Photo No. 7

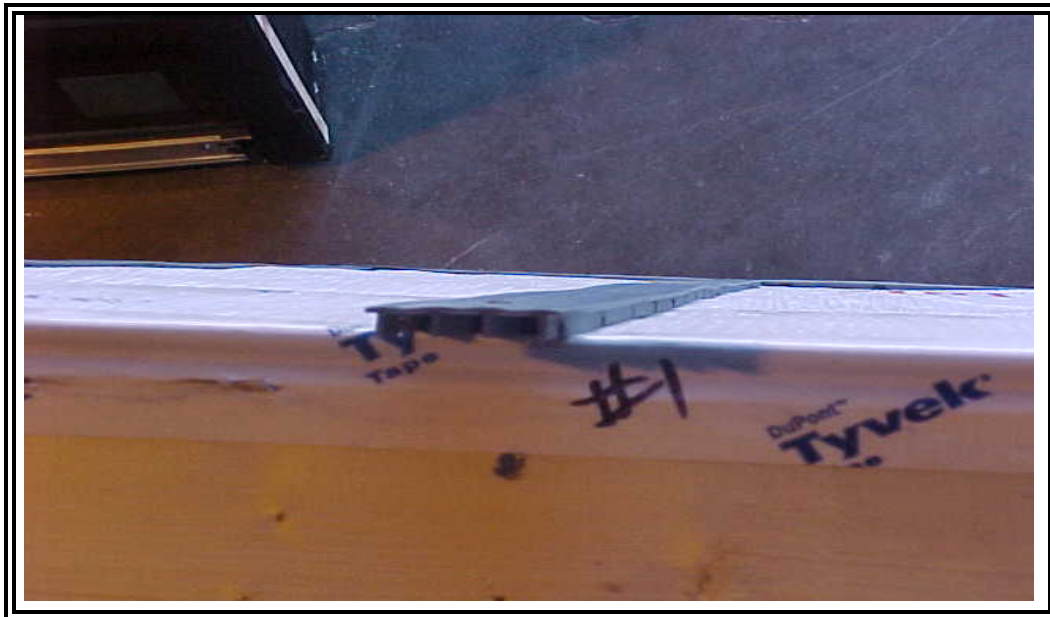


Photo No. 8



Photo No. 9



Photo No. 10



Photo No. 11



Photo No. 12



Photo No. 13



Photo No. 14

Photos (After Test)



Photo No. 1

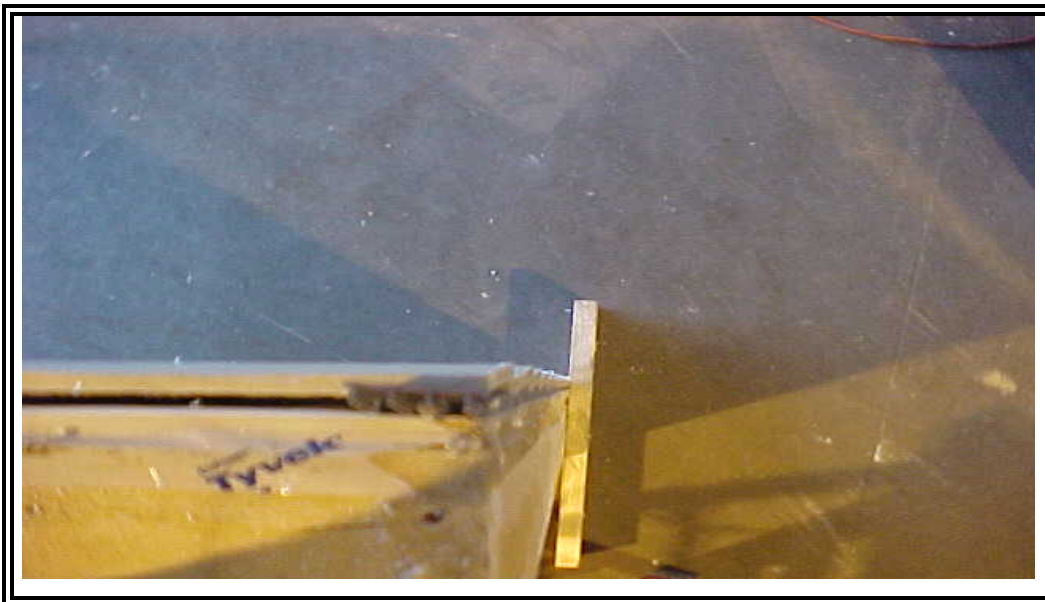


Photo No. 2



Photo No. 3



Photo No. 4

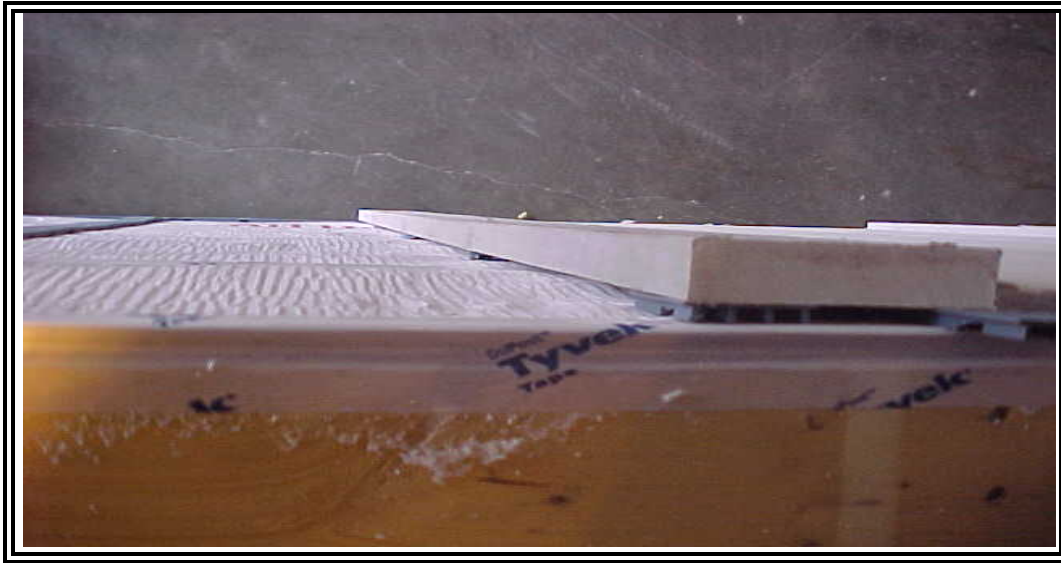


Photo No. 5



Photo No. 6



Photo No. 7



Photo No. 8