AAMA 508 TEST REPORT

Rendered to:

NORTHCLAD RAINSCREEN SOLUTIONS

SERIES/MODEL: NorthClad AL

PRODUCT TYPE: Interlocking Rain Screen Wall Cladding System

Report No.: 94366.01-901-44
Test Date: 09/29/09
Report Date: 10/09/09
Expiration Date: 09/29/13
AAMA 508 TEST REPORT

Rendered to:

NORTHCLAD RAINSCREEN SOLUTIONS
11831 Beverly Park Road, Building C
Everett, WA  98204

Report No.: 94366.01-901-44  
Test Date: 09/29/09  
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Project Summary: Architectural Testing, Inc. was contracted by NorthClad Rainscreen Solutions to conduct performance tests on their interlocking aluminum panel system. General construction details and test results are included herein.

Test Methods: The test specimen was evaluated in accordance with AAMA 508-07, *Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems*.

Test Specimen Description: Reference attached drawings

**Overall Size:** 96" wide by 96" high

**Panel Sizes (4):** 47-1/2" wide by 47-1/2" high

Test Set-Up:

An 8' wide by 8' high stud wall was constructed with 2 x 4 wood studs spaced 24" on center inside a 2 x 8 wood buck. The stud wall was covered with a 1/4" thick sheet of clear polycarbonate sealed and fastened to the exterior of the wall to simulate an air/water barrier. The rain screen system was then installed in a manner consistent with normal construction procedures for the system, and the perimeter was sealed to the test buck to eliminate water leakage around the perimeter.

The polycarbonate was calibrated to a pre-determined air leakage rate by drilling 1/8" diameter holes in the back side of the polycarbonate, in a uniform pattern, making sure to create an even pressure drop and leakage rate across the wall and in each quadrant.
Test Results: The following results have been recorded.

<table>
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<th>Title of Test - Test Method</th>
<th>Results</th>
<th>Allowed</th>
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<tbody>
<tr>
<td>Air Infiltration per ASTM E 283 @ 1.57 psf</td>
<td>0.117 cfm/ft²</td>
<td>Between 0.108 and 0.132 cfm/ft²</td>
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*Pressure Cycling per ASTM E 1233
100 cycles @ 25.00 psf<br><0.08 sec. 0.08 sec.

Water Penetration per ASTM E 331 @ 6.24 psf<br>Approx. 0.0 ft² 3.2 ft²

Water Penetration per AAMA 501.1 @ 6.24 psf<br>Approx. 0.2 ft² 3.2 ft²

*Cavity pressure readings were taken in the top right and bottom left quadrants (interior view).

Test Witnesses: The following representatives witnessed all or part of the testing:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Elbert</td>
<td>NorthClad Rainscreen Solutions</td>
</tr>
<tr>
<td>Dave Killian</td>
<td>NorthClad Rainscreen Solutions</td>
</tr>
<tr>
<td>Paul Brunner</td>
<td>Architectural Testing, Inc.</td>
</tr>
<tr>
<td>Steve Powers</td>
<td>Architectural Testing, Inc.</td>
</tr>
</tbody>
</table>

Detailed drawings, data sheets, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. 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 will expire. Results obtained are tested values and were secured by using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. This report is not intended as a comprehensive evaluation of the system regarding performance and application to specific buildings. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.

Paul S. Brunner
Technician

Jeffrey L. Dideon
Director – Regional Operations

JLD:pac

Attachments (pages):
  - Appendix-A: Graphs (2)
  - Appendix-B: Photograph (1)
  - Appendix-C: Drawings (6)
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<td>10/09/09</td>
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<td>Original report issue.</td>
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Appendix A

Graphs
Appendix B

Photograph
Appendix C

Drawings
NORTHCLAD(TM) ALUMINUM PANEL
(SEE DETAIL "A" FOR FURTHER INFORMATION)

ATTACH PERFORATED PANEL BASE AND BASE FLASHING W/ SS SELF-DRILLING FASTENERS @ 24" ON CENTER

PERFORATED ALUMINUM PANEL BASE, FINISHED TO MATCH NORTHCLAD(TM) PANEL

1\frac{1}{2}\times\frac{1}{2}" WEEP SLOT @ 3" OC W/ BAFFLE

.060" ALUMINUM BASE FLASHING, PREFINISHED TO MATCH NORTHCLAD(TM) PANEL

WOOD BUCK

ACRYLIC

BASE DETAIL

C

DET

11831 BEVERLY PARK RD BLDG. C. EVERETT, WA 98204 * (425) 740.3702 * (425) 4470.3701 * www.northclad.com

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DYMONIC FC SEALANT
WOOD BUCK
NORTHCLAD(TM) ALUMINUM PANEL (SEE DETAIL "A" FOR FURTHER INFORMATION)
1/4" HAT CHANNEL
ACRYLIC

D DET TOP DETAIL

NorthClad
AL TEST SPECIMEN

SCALE: 5"=1'-0"
REVISION DATE: 10.07.2009
DRAWING NO: D

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JOB NAME: