



Architectural Testing

**PERFORMANCE TEST REPORT**

**Rendered to:**

**Berridge Manufacturing Company**

**PRODUCT: Double Lock Zee-Lock Standing Seam Metal Roof Panels  
with Continuous 24 ga. Zee-Rib Clip**

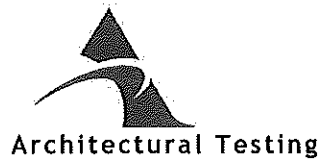
**Thermal Expansion & Contraction Test**

**Report No: 79368.01-801-44**

**Report Date: 06/03/08**

**Expiration Date: 04/28/12**

2865 Market Loop  
Southlake, Texas 76092  
phone: 817-410-7202  
fax: 817-424-8463  
www.archtest.com



## **PERFORMANCE TEST REPORT**

Rendered to:

Berridge Manufacturing Company  
1720 Maury  
Houston, TX 77026

Report No: 79368.01-801-44  
Test Dates: 04/17/08  
Through: 04/28/08  
Report Date: 06/03/08  
Expiration Date: 04/28/12

**Product:** Double Lock Zee-Lock Standing Seam Metal Roof Panels with Continuous 24 ga. Zee-Rib Clip

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted by Berridge Manufacturing Company to evaluate their Zee-Lock standing seam metal roof panels for thermal expansion and contraction.

**Test Method:** The test specimens were evaluated in accordance with the following custom test method – Thermal Expansion and Contraction.

Relative panel motion  $\geq 2"$  for 100,000 cycles with no indication of material wear or sealant degradation.

### **Product Description:**

**Series/Model:** Double Lock Zee-Lock™ with Continuous Zee-Rib™ Clip

**Product Type:** Standing Seam Metal Roof Panels

**Overall Size:** 48" wide by 36" long

**Individual Panel Size:** 16" wide by 36" long

**Zee-Lock Panel Thickness:** 0.025"

**Zee-Rib Clip Thickness:** 0.025"

**Purlin Thickness:** 0.061"

**Sample Construction:** Sample comprised of three interlocking Zee-Lock steel panels connected by continuous steel Zee-Rib clips. Outer two panels mounted to two steel purlins spaced 2' apart with 3/4" self tapping screws. Purlins were welded along the bottom edge to a steel plate.

**Test Procedures:** Center panel attached to a pneumatic and cycled over a 2" distance for 100,000 cycles.

**Test Results:** After 100,000 cycles there was no indication of material wear or sealant degradation.

Detailed drawings, data sheets, representative samples of test specimens, 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 by Architectural Testing will expire. Results obtained are tested values and were secured by using the designed 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 specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.:



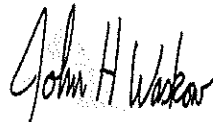
Digitally Signed by: Anthony D. Brown

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Tony Brown  
Technician

TB/hd

Attachments (pages).  
Appendix A – Drawings (2)



Digitally Signed by: John H. Waskow

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John Waskow, P.E.  
Director – Regional Operations



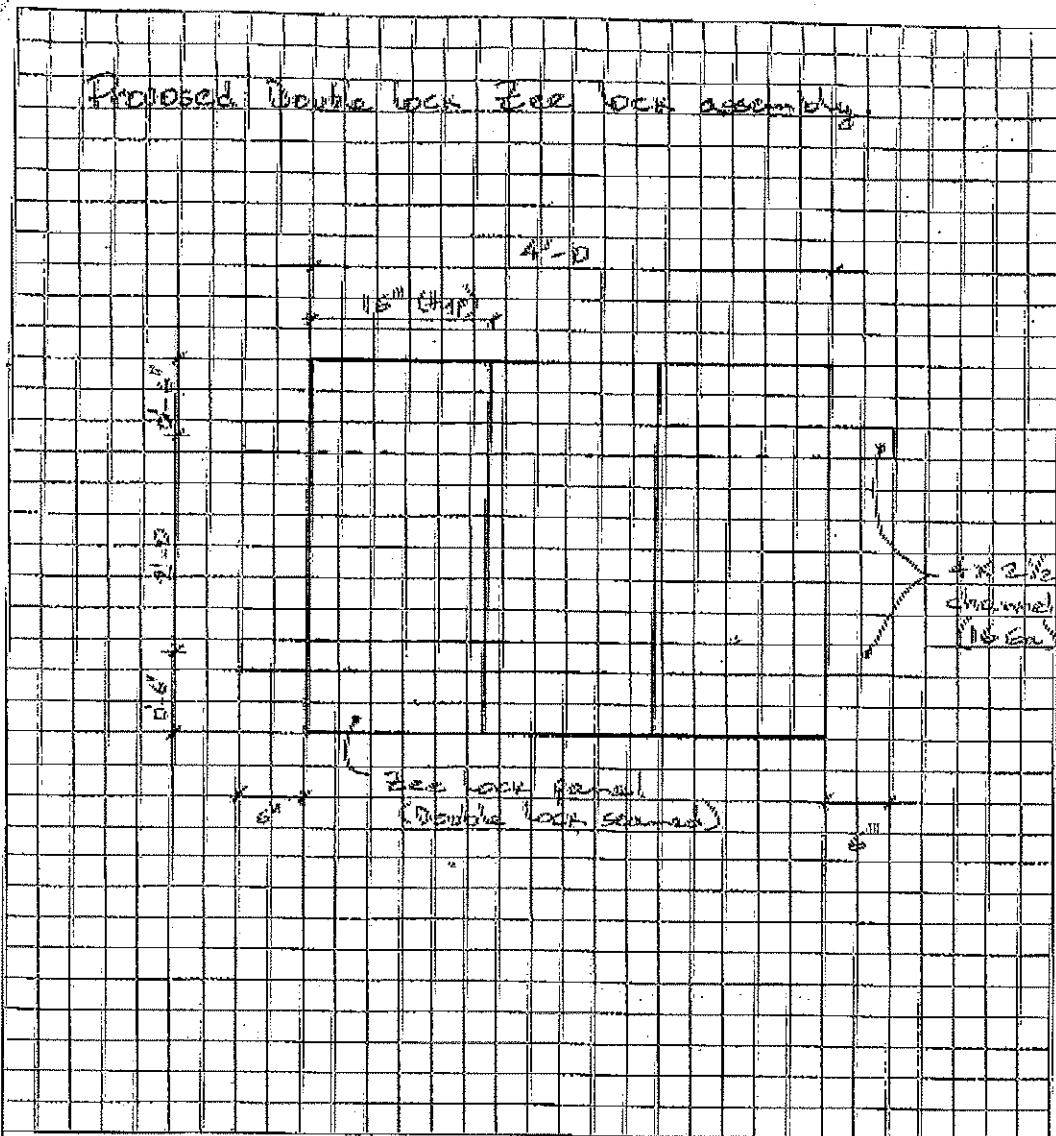
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### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	06/03/08	N/A	Original report issue.

APPENDIX A

Drawings



NOTES:

DATE:  
12/18/07

PAGE/FILE



Berridge  
Manufacturing  
Company

Praxis of Distraction