

MID AMERICA TESTING LABORATORY, INC.

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DATE OF REPORT: October 1, 2001

LOCATION OF TEST: Mid America Testing Laboratory

DATES OF ERECTION: February 21, 2001 & July 18, 2001

DATES OF TESTING: February 22, 2001 & July 18, 2001

PANEL IDENTIFICATION: Double Lock Zee-lock Panel System

PROJECT NUMBER: 01016L-B

CLIENT: Berridge Manufacturing Company

The following were present for all or portions of the erection and testing.

Mr. Bobby Marks, Jr.

Mr. Tim Ponting

Mr. Travis Swisshelm

Mr. Rick Heitmann

Berridge Manufacturing Company

Mid America Testing Laboratory

Mid America Testing Laboratory

INTRODUCTION

As requested, Mid America Testing Laboratory performed weatherization and structural testing on the Double Lock Zee-lock Panel System as fabricated and installed by Berridge Manufacturing. The panel was installed onto a testing chamber, which allowed visual viewing of the underside of the panel during the water infiltration testing.

The Double Locked 24 gauge roll formed Zee Panel measured a nominal 37" wide by 6' in length and incorporated three 2" high standing seams. This system's interlocking was double locked with snap in bottom clip male/female interfacing. Center line to center line of the three (3) interlocks were 1'4" with 2 ½" at each side. All testing on the panel was performed with the panel in a horizontal position.

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FORMAL TESTING

1. **PRELOAD** +45.0 PSF static pressure (50% of the positive design load for 10 seconds).

ALLOWED:

No failure of the system

RESULTS:

No failure of the system

The above result constitutes an acceptable performance.

2. STATIC AIR INFILTRATION (ASTM E 283) at 1.57 PSF (25 MPH wind and .3" H_20).

ALLOWED:

Air infiltration shall not exceed 1.1 CFM gross

leakage.

RESULTS:

The specimen measured 8 CFM gross leakage.

The above results constitute an acceptable performance.

3. STATIC AIR INFILTRATION (ASTM E 283) at 6.24 PSF (50 MPH wind and 1.2" H₂0).

ALLOWED:

Air infiltration shall not exceed 1.1 CFM gross

leakage.

RESULTS:

The specimen measured 1.1 CFM gross leakage.

The above results constitute an acceptable performance.

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4. <u>STATIC WATER INFILTRATION</u> (ASTM E 331) at 6.24 PSF (50 MPH wind and 1.2" H₂0) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED:

No uncontrolled water leakage to the room side

shall be allowed.

RESULTS:

No uncontrolled water leakage was noted to the

room side.

The above result constitutes an acceptable performance.

5. <u>STATIC WATER INFILTRATION</u> (ASTM E 331) at 12.0 PSF (69 MPH wind and 2.3" H₂0) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED:

No uncontrolled water leakage to the room side

shall be allowed.

RESULTS:

No uncontrolled water leakage was noted to the

room side.

The above result constitutes an acceptable performance.

6. STATIC WATER INFILTRATION (ASTM E 331) at 15.0 PSF (77 MPH wind and 2.88" H₂0) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED:

No uncontrolled water leakage to the room side

shall be allowed.

RESULTS:

No uncontrolled water leakage was noted to the

room side.

The above result constitutes an acceptable performance.

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7. STATIC WATER INFILTRATION (ASTM E 331) at 20.0 PSF (89.5 MPH wind and 3.8" H₂0) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED:

No uncontrolled water leakage to the room side

shall be allowed.

RESULTS:

No uncontrolled water leakage was noted to the

room side.

The above result constitutes an acceptable performance.

SUMMARY

As can be determined by this brief report, the Double Lock Zee-lock Panel System has met or exceeded the test criteria to which it was subjected. In addition to the ASTM E 283 and ASTM E 331 methods, which were specifically identified, the unit has also met or exceeded ASTM E 1680 and ASTM E 1646 for air and moisture testing.

Should you have any questions regarding the information contained in this report, please feel free to contact the writer.

Respectfully Submitted,

Mid America Testing Laborators

Rick A. Heitmann

President

RAH/slh