

**Engineering Technical Bulletin**

No. 179-09-99 Revised – May 1, 2014

**Air Leakage and Water Penetration Test Data**

**PRODUCT**

MBCI 7.2-Panel 26 Ga. with stitch screws at 20” o/c and continuous ½” x 3/32” Tape Sealer at panel

side-lap.

**TEST PROCEDURES**

1. ASTM E 283-84: Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors
2. ASTM E 331-83: Standard Test Method for Water Penetration Through Exterior Windows,

Curtain Walls, and Doors

**TEST RESULTS**

Air Leakage was conducted with a maximum uniform static air pressure differential of 20.00 PSF.

Water Penetration was conducted with a maximum uniform static air pressure differential of 13.24 PSF.

Air Leakage Test Results: See summary below.

Water Penetration Test Results: No uncontrollable water leakage at 13.24 PSF when five gallons per

hour of water were sprayed per square foot of roof area.

The following is the test summary report.

**SUMMARY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ASTM E 283-84  Air Leakage | | ASTM E 331-83  Water Penetration | |  |
| Profile | Pressure  Differential | Leakage  Rate | Pressure  Differential | Infiltration  Rate |  |
|  |  |  |  |  |  |
| 7.2-Panel 26 Ga. | 6.24 PSF  10.00 PSF  15.00 PSF  20.00 PSF | .000 CFM/ sq. ft.  .170 CFM/sq. ft  .239 CFM/sq. ft.  .356 CFM/sq. ft. | 13.24 PSF | None |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Copies of the independent laboratory test reports are available upon request.

Test Report #T1308 Dated 2/14/991, Southwestern Laboratories, Inc.