

**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 283-84Air Leakage | ASTM E 331-83 Water Penetration |  |
| Profile | Pressure Differential | LeakageRate | PressureDifferential | InfiltrationRate |  |
|  |  |  |  |  |  |
| 7.2-Panel 26 Ga. | 6.24 PSF10.00 PSF15.00 PSF20.00 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.