Engineering Technical Bulletin

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R-Panel
Air Leakage and Water Penetration Test Data

PRODUCT
MBCI R-Panel 24-ga. with stitch screws at 20” o/c, and continuous ½” x 3/32” tape sealer at panel side-lap.

TEST PROCEDURES

TEST RESULTS
Air Leakage was conducted with a uniform static air pressure differential of +/- 1.57 psf & +/- 6.24 psf.
Water Penetration was conducted with a uniform static air pressure differential of 20.00 psf.

Water Penetration Test Results: No uncontrollable water leakage at 20 psf when five gallons per hour of water were sprayed per square foot of roof area.

The following are the test results:

SUMMARY

<table>
<thead>
<tr>
<th>Profile</th>
<th>ASTM E 1680-95 Air Leakage</th>
<th>ASTM E 1646-95 Water Penetration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pressure Differential</td>
<td>Leakage Rate</td>
</tr>
<tr>
<td>R-Panel 24 Ga.</td>
<td>+ 1.57 psf</td>
<td>0.005 cfm / sq. ft.</td>
</tr>
<tr>
<td>R-Panel 24 Ga.</td>
<td>- 1.57 psf</td>
<td>0.004 cfm / sq. ft.</td>
</tr>
<tr>
<td>R-Panel 24 Ga.</td>
<td>+/- 6.24 psf</td>
<td>0.006 cfm / sq. ft.</td>
</tr>
</tbody>
</table>

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