## Technical Bulletin

**Issue Date:** July 5, 2011  
**Revised:** February 11, 2013  
**No.** 02-327-11

### Air and Water Infiltration

**MSR**

On May 12, 2011, McElroy Metal, Inc. tested its MSR Wall Panel for air leakage and water penetration.

**TEST METHODS:**

**Air Leakage:**  

**Water Penetration:**  

**TEST SPECIMEN:**

McElroy Metal, Inc. 24 Ga. 16 in. wide MSR Wall Panel. Panels were attached to 16 ga. intermediate supports using a 2” x 2” x 2” 16 ga. clip using # ⅛” -14 x 1-¼” self drilling hex head fasteners (2 per clip) at 10'-0” spacing. The panels were attached to the clips using one #12-14 x 1-⅛” self drilling hex head fastener. A 3/32” x 3/8” Butyl tape sealant was field applied in the sidejoint prior to panel engagement. The specimen was tested both vertically and horizontally.

**TEST RESULTS:**

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Static Pressure Differential (psf)</th>
<th>Air Infiltration rate (cfm/lf)</th>
<th>Air Infiltration rate (cfm/sf)</th>
<th>Static Pressure Differential (psf)</th>
<th>Rate (gal./hr/sf)</th>
<th>Test Duration (min)</th>
<th>Water Infiltration</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSR 16 in. 24* Ga.</td>
<td>1.57</td>
<td>0.000</td>
<td>0.000</td>
<td>6.24</td>
<td>5</td>
<td>15</td>
<td>None</td>
</tr>
<tr>
<td>MSR 16 in. 24* Ga.</td>
<td>6.24</td>
<td>0.007</td>
<td>0.005</td>
<td>15.0</td>
<td>5</td>
<td>15</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20.0</td>
<td>5</td>
<td>15</td>
<td>None</td>
</tr>
</tbody>
</table>

Test Report No. : T194-11  
Dated : May 12, 2011

*Test results are valid for heavier gauges or thicknesses.*