Material Makeup

Outer Cladding: 26 ga or 24 ga Steel Top and Bottom with AZ50 Galvalume finish with Epoxy Resin Coat

Foam Core: Isocyanurate Core

Material Dimensions

<table>
<thead>
<tr>
<th>Screw-Down</th>
<th>Standing Seam (Zees &amp; Cees)</th>
<th>Other (Zees, Cees &amp; Bar Joist)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height:</td>
<td>1 inch</td>
<td>1 inch</td>
</tr>
<tr>
<td>Width:</td>
<td>2 ½ inches</td>
<td>3 ½ inches</td>
</tr>
<tr>
<td>Length:</td>
<td>6 feet</td>
<td>6 feet</td>
</tr>
<tr>
<td>Weight:</td>
<td>3 lbs</td>
<td>4.5 lbs</td>
</tr>
<tr>
<td>Panel:</td>
<td>26 ga</td>
<td>24 ga</td>
</tr>
</tbody>
</table>

Performance Testing

(AISI TS-7-02) (AISI S100-2007 section D6.1.1, “Standoff Type Screw”)

Compressive Strength: 45 PSI @10% deflection

R-value: R-6

Continuous Insulation system R-7.5 (SNS Thermal Barrier & 3” insulation blanket)

Shear Strength for 26 ga panels: 243.1 lb/ft (ultimate shear)

Shear Strength for 24 ga Panels: 276.9 lb/ft (ultimate shear)

Closed Cell Content: 95%

Fire Testing (ASTM E84)

Class: A Fire Rating

Flame Spread: <25

Smoke Index: <150

Wind-Uplift (ASTM E1592-05)

Test show no negative effects and performs equal to a typical screw-down roof system

Water & Air Infiltration (ASTM E1646-95) (ASTM E1680-95)

Testing Conducted shows no water leakage or air infiltration and performs equal to a typical screw-down roof system.

Types of Insulation Systems Using Thermal Blocks

(ASTM C976), (ASTM C1363) & (ASTM C518)

<table>
<thead>
<tr>
<th>System</th>
<th>Rated R-Values</th>
<th>Tested U-Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Layer Systems</td>
<td>(R-20 to R-26)</td>
<td>(U-0.076 to U-0.074)</td>
</tr>
<tr>
<td>Full Cavity System</td>
<td>(R-29 to R-35)</td>
<td>(U-0.048 to U-0.040)</td>
</tr>
<tr>
<td>Suspended Full Cavity System</td>
<td>(R-39 to R-60)</td>
<td>(U-0.0327 to U-0.0203)</td>
</tr>
</tbody>
</table>