



**Proven to increase insulation performance by more than double, with a quick return on investment. (12 to 18 months)**

**SNS Thermal Spacer Specifications**

### 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

<u>Screw-Down</u>	<u>Standing Seam(Zees &amp; Cees)</u>	<u>Other(Zees, Cees &amp; Bar Joist)</u>
<b>Height:</b> 1 inch	<b>Height:</b> 1 inch	<b>Height:</b> 1 inch
<b>Width:</b> 2 ½ inches	<b>Width:</b> 3 ½ inches	<b>Width:</b> 5 inches
<b>Length:</b> 6 feet	<b>Length:</b> 6 feet	<b>Length:</b> 6 feet
<b>Weight:</b> 3 lbs	<b>Weight:</b> 4.5 lbs	<b>Weight:</b> 6 lbs
<b>Panel:</b> 26 ga	<b>Panel:</b> 24 ga	<b>Panel:</b> 24 ga

### 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)

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