



“SNS boosts insulation effectiveness by **30% to 50%** in Standing Seam Roofs and **doubles** the performance of standard Screw-down systems. With the resulting energy savings, the upgrade pays for itself in just **18-26** months.”

### Material Makeup

**Outer Cladding:** 26 ga. or 24 ga. Steel Top and Bottom with AZ50 Galvalume finished 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-6.5 Continuous Insulation System

**Shear Strength for 26 ga. panels:** 243.1 lbs./ft. (ultimate shear)

**Shear Strength for 24 ga. panels:** 276.9 lbs./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 down roof system.

### Types of Insulation Systems Using SNS R-6.5 Thermal Blocks

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

<b>Wall</b>	<b><u>Thru-Fastened</u></b>	<b><u>Standing Seam</u></b>
Single Layer Systems	R-10 to R-19	-----
Double Layer Systems	R-20	-----
<b>Roof</b>		
Single Layer Systems	R-10 to R-19	R-10 to R-19
Double Layer Systems	R-20 to R-29	R-20 to R-44
Full Cavity System	R-20 to R-43	R-20 to R-51
Extended Full Cavity System	-----	R-35 to R-76

SNS Thermal Spacer Specifications