



Proven to increase insulation performance by a third, and in many cases by more Than double.

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

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>Thru-Fastened</u>	<u>Standing Seam</u>
Single Layer Systems	R-10 to R-29	
Double Layer Systems	R-20	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