



NEW AND IMPROVED!

TempShield™

Reflective Foil Air Cellular Insulation

A safe, easy-to-use thermal insulating material that provides cost effective, high-efficiency performance for a wide range of applications

Metal Building Roof



Post/Frame Building Roof

**Class A /
Class 1
Fire Rating**

Metal Building Wall



Post/Frame Building Wall

TempShield™ is a technologically advanced insulation material ideal for new construction or retrofit installation in residential, commercial, industrial, metal buildings and post frame buildings. Our products are recognized for their thermal performance, easy installation, versatility, price and environmental friendliness.

BENEFITS OF TEMPShield™:

Convenient Roll Sizes, Reflects 94%+ of Radiant Energy, Cost Efficient, Non-Toxic/Non-Carcinogenic, Quick and Easy Installation, Class A/Class 1 Fire Rating, Inhibits Dew Point Condensation Problems, No Protective Clothing Required for Installation, Great Vapor Barrier, Does Not Promote Nesting of Insects or Rodents, Does Not Compress, Collapse or Disintegrate and is Extensively Tested. Tempshield has met the E84 standard since 1997 & has been in compliance with NFPA 286 since 2007.

	Double Bubble Metalized One Side / White Poly One Side:
Temperature Range:	-60 degrees to 180 degrees F
Nominal Thickness:	5/16 inch (.312)
Flame Spread Index (ASTM E 84):	Less than 25
Smoke Developed Index (ASTM E 84):	Less than 50
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	94%+ (metal side)
Water Vapor Transmission (ASTM E 96):	0.02 Perms
Mold and Mildew:	No Growth
Tensile Strength:	3.7 N/mm
Pliability:	No Cracking
Hot Surface Performance:	N/A
UV Resistant (D4459):	Passed

**UV
Protected**



POST FRAME ROOF

The thermal values for roof applications in post frame construction were derived by calculating an assembly consisting of a corrugated metal exterior, 2" x 4" purlins, TempShield™ Insulation and a 2" x 6" truss. The thermal values are for exposed insulation.

THERMAL VALUES:	Heat Flow Up	Heat Flow Down
TempShield™ Exposed to Interior	3.7*	6.4*

All thermal values are corrected for framing loss.

**Includes thermal resistance of 0.61 UP and 0.92 DOWN for interior air film.*

POST FRAME WALLS

The thermal values for TempShield™ installed in the walls of post frame buildings are based on the calculations of an assembly consisting of a corrugated metal exterior, 2" x 4" girts, TempShield™ Insulation and a 4" x 6" to represent the support beam.

THERMAL VALUES:	Heat Flow Horiz.
TempShield™ Exposed to Interior	4.2*

All thermal values are corrected for framing loss.

**Includes thermal resistance of 0.68 for interior air film.*

METAL BUILDING ROOF

The assembly used to calculate the thermal resistance of TempShield™ Insulation as it would be installed in new metal building construction consisted of a corrugated metal exterior, 3/4" extruded polystyrene thermal breaks 5' on center, TempShield™ Insulation and 8" Z purlins commonly used in metal buildings.

THERMAL VALUES:	Heat Flow Up	Heat Flow Down
TempShield™ Exposed to Interior	3.3*	5.9*

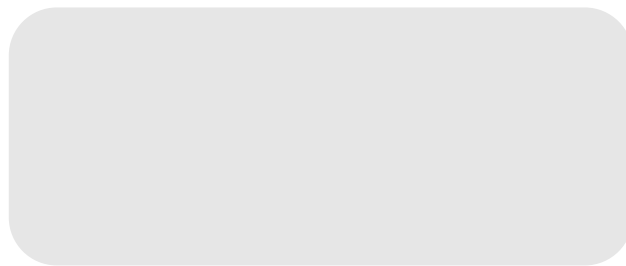
**Includes thermal resistance of 0.61 UP and 0.92 DOWN for interior air film.*

METAL BUILDING WALLS

The assembly utilized for the calculation of the thermal resistance of TempShield™ Insulation in the walls of metal buildings consisted of a corrugated metal exterior, 3/4" extruded polystyrene thermal breaks, TempShield™ Insulation and 8" Z girts.

THERMAL VALUES:	Heat Flow Horiz.
TempShield™ Exposed to Interior	4.3*

**Includes thermal resistance of 0.68 for interior air film.*



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