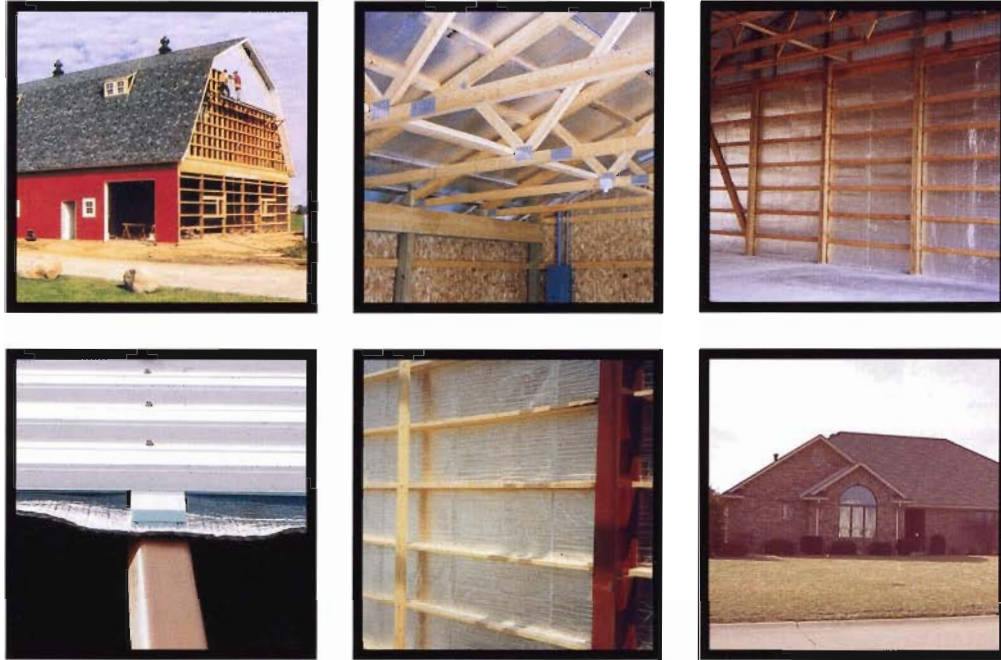


TempShield™

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.



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 97% 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, Fully Tested

| | Double Bubble Foil Both Sides: | Double Bubble Foil One Side/ White Poly One Side: |
|---------------------------------------|---|--|
| Temperature Range: | -60 degrees to 180 degrees F | -60 degrees to 180 degrees F |
| Nominal Thickness: | 5/16 inch (.312) | 5/16 inch (.312) |
| Weight: | 1.25 oz./sq. ft. | 1.25 oz./sq. ft. |
| Flame Spread Index (ASTM E 84): | 20 | 75 |
| Smoke Developed Index (ASTM E 84): | 30 | 35 |
| Fire Rating: | Class A/Class 1 | Class C/Class 3 |
| Linear Shrinkage: | None | None |
| Reflectance (IR): | 97% | 97% (foil side) |
| Water Vapor Transmission (ASTM E 96): | 0.02 | 0.02 Perms |
| Puncture Resistance: | 60 lb./in. | 60 lb./in. |
| Mold and Mildew: | No Growth | No Growth |
| Surface Emittance: | 0.03 | 0.03 (foil side) |
| Tensile Strength: | 3.7 N/mm | 3.7 N/mm |
| Pliability: | No Cracking | No Cracking |
| Hot Surface Performance: | Passed | N/A |



Thermal values only apply to Double Bubble Foil Both Sides.

POST FRAME ROOF

The thermal values for roof applications in post frame construction were derived by testing an assembly consisting of a corrugated metal exterior, 2" x 4" purlins, TempShield™ Insulation, a 2" x 6" to represent the top cord of a truss, and 1/2" wafer board. The thermal values are for both exposed insulation and applications where the insulation is covered for fire codes.

| THERMAL VALUES: | Heat Flow Up | Heat Flow Down |
|---------------------------------|--------------|----------------|
| TempShield™ w/ Wafer Board | 6.93 | 15.11 |
| TempShield™ w/ Metal Interior | 6.22 | 14.40 |
| TempShield™ Exposed to Interior | 4.91* | 12.81* |

All thermal values are corrected for framing loss.

**Includes thermal resistance of 1.32 UP and 4.55 DOWN for interior air film.*

POST FRAME WALLS

The thermal values for TempShield™ installed in the walls of post frame buildings are based on testing of an assembly consisting of corrugated metal exterior, 2" x 4" girts, TempShield™ Insulation, a 4" x 6" to represent the support beam, and 1/2" wafer board as an interior wall covering.

| THERMAL VALUES: | Heat Flow Horiz. |
|---------------------------------|------------------|
| TempShield™ w/ Wafer Board | 6.93 |
| TempShield™ w/ Metal Interior | 6.22 |
| TempShield™ Exposed to Interior | 4.91* |

All thermal values are corrected for framing loss.

**Includes thermal resistance of 1.70 for interior air film.*

METAL BUILDING ROOF

The assembly used to test the thermal resistance of TempShield™ Insulation as it would be installed in new metal building construction consisted of a corrugated metal exterior, 1/2" 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™ w/ Wafer Board | 5.02 | 7.93 |
| TempShield™ w/ Metal Interior | 4.29 | 7.29 |
| TempShield™ Exposed to Interior | 3.63* | 7.26* |

**Includes thermal resistance of 1.32 UP and 4.55 DOWN for interior air film.*

METAL BUILDING WALLS

Thermal assembly tested for thermal resistance of TempShield™ Insulation in the walls of metal buildings consisted of corrugated metal exterior, 1/2" extruded polystyrene thermal breaks, TempShield™ Insulation, 8" Z girts, and 1/2" wafer board to represent an interior finished wall.

| THERMAL VALUES: | Heat Flow Horiz. |
|---------------------------------|------------------|
| TempShield™ w/ Wafer Board | 5.45 |
| TempShield™ w/ Metal Interior | 4.77 |
| TempShield™ Exposed to Interior | 4.50* |

**Includes thermal resistance of 1.70 for interior air film.*



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ENERGY STAR HOME SEALING

EPA recommends sealing the "envelope" that surrounds your living space:

- the ceiling
- outer walls
- windows
- floors

ENERGY STAR is a program of the U.S. Environmental Protection Agency and the U.S. Department of Energy.

To save on your heating and cooling bill and increase the comfort of your home:

- Add insulation
- Seal air leaks
- Choose ENERGY STAR qualified windows when replacing windows

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