

SOLAR GUARD®

REFLECTIVE INSULATION

SolarGuard® Reflective Insulation greatly increases comfort in residential and commercial applications by reducing radiant heat gain. The barriers consist of a highly reflective material that reflects radiant heat rather than absorbing it. SolarGuard is effectively used alone or in conjunction with fiberglass batts for optimal thermal performance.

Blocks all three modes of heat loss/gain!

Provides total thermal protection. Radiant energy causes up to 93% of heat transfer. Only one insulation blocks radiant energy plus heat conduction and convection: SolarGuard Reflective Insulation.

For total thermal protection on every job use SolarGuard Reflective Insulation alone or with fiberglass.

- Behind fiberglass batts in walls
- Under roof trusses or roof deck
- Below radiant floors
- In crawl spaces
- On basement walls
- Behind recessed lights
- Overhead doors
- Outer sheds
- Metal buildings
- Post frame building

Available sizes

SolarGuard White/Foil & RFSK/Foil:

- 48" x 102'
- 48" x 125'
- 72" x 102'
- 72" x 125'

SolarGuard Foil/Foil:

- 16" x 50'
- 24" x 50'
- 48" x 50'



RESIDENTIAL

Increases home comfort in between conditioned and unconditioned spaces.



COMMERCIAL

May be used as a condensation blanket in well ventilated buildings.



AGRICULTURAL

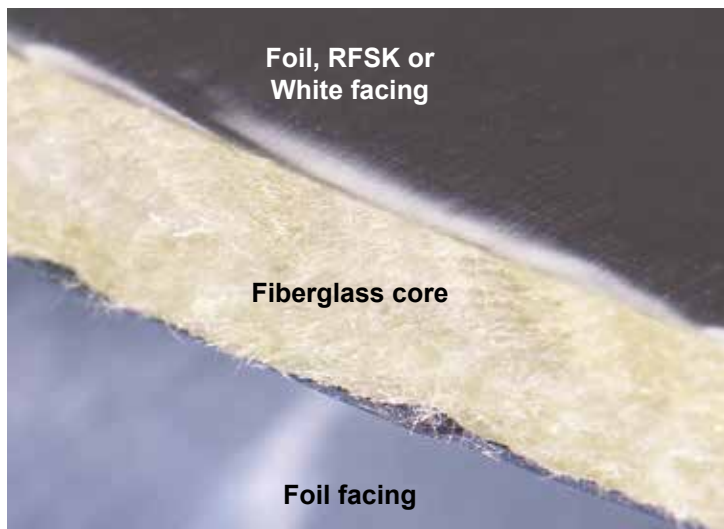
Helps reduce heat gain.

How is SolarGuard made?

SolarGuard Reflective Insulation is made of a ¼” encapsulated fiberglass core that is bonded to two exterior layers. The first layer is perforated 99% pure aluminum and the second layer can be either:

- Aluminum
- Reinforced aluminum scrim kraft
- White scrim-reinforced facing

We perforate SolarGuard laminated material for one purpose, permeance. The foil/foil product is used primarily in retrofit or new residential construction where there may be an existing vapor retarder. SolarGuard’s perforated material eliminates a double vapor barrier when installed behind existing insulation.



Testing

Fire Properties: Many other reflective insulation products claim a Class 1 rating per ASTM E84, however they must support their product with poultry wire when testing in order to achieve these results. While the ASTM E84 test standard allows the use of such support, when burned in an unsupported condition that is more typical of their installation in a metal, post frame or other type of building, some bubble-pack or foam core reflective insulation products generate a Flame Spread many times the 25 rating required to achieve a Class 1 rating. All SolarGuard E84 test results reported herein were achieved without the use of additional support beneath the sample. SolarGuard foil/foil meets all requirements for reflective insulation as required by the 2000 International Building Code (IBC).

SolarGuard Foil/Foil*

Physical Properties	Test Method	Values
Water Vapor		
Transmission (perm).....	E96.....	1.35
Emittance.....	ASTMC 1371-04.....	0.044
Fungi Growth.....	ASTMC 1338-14.....	No Growth
Flame Spread.....	E84.....	15
Smoke Developed.....	E84.....	5
Corner Burn Test.....	NFPA 286.....	Pass
Pliability.....	ASTMC 1224.....	Pass
Delamination.....	ASTMC 1224.....	Pass
Temperature/Humidity		
Resistance.....	ASTMC 1258.....	Pass

SolarGuard RFSK/Foil

Physical Properties	Test Method	Values
Flame Spread.....	E84.....	0
Smoke Developed.....	E84.....	0

SolarGuard White/Foil

Physical Properties	Test Method	Values
Water Vapor Transmission		
(perm).....	E96.....	
Fungi Growth.....	ASTMC 1338-14.....	No Growth
Pliability.....	ASTMC 1224.....	Pass
Delamination.....	ASTMC 1224.....	Pass
Temperature/Humidity		
Resistance.....	ASTMC 1258.....	Pass

* Classification results on SolarGuard show that it meets the requirements for ASTMC1224 for the tests performed.