



REFLECT-R®

R-8 Reflective Insulation for Post-Frame Buildings

Reflect-R® combines radiant heat reflection with the strength of a fiberglass core to improve thermal performance in post-frame building assemblies. Designed for agricultural, commercial, and residential structures, it helps reduce radiant heat gain, control condensation, and support energy-efficient building performance.



BETTER PROTECTION FROM SOLAR HEAT

Reflect-R's pure aluminum facing reflects up to 97% of radiant heat, helping reduce solar heat gain and improve thermal performance.

FASTER ONSITE INSTALLATION

Variable widths and custom lengths, combined with the rigid 1" core, help streamline installation and reduce jobsite labor.

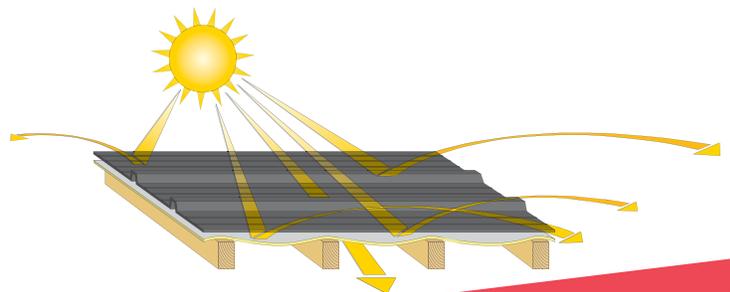
SAFER IN-PLACE FIRE PROTECTION

The fiberglass core of Reflect-R helps limit flame spread compared with many reflective insulation products that use non-fiberglass cores. Tested to ASTM E84 and UL 723 standards, Reflect-R achieved a 25/50 Flame Spread and Smoke Developed rating, meeting the requirements for a Class A / Class 1 fire rating.

HEAT TRANSFER IN ROOF SYSTEMS

Heat moves through building assemblies in three primary ways: convection (heat carried by moving air), conduction (heat transferred through solid materials), and radiation (heat transferred through infrared energy).

During warm conditions, radiant heat can represent a significant portion of roof heat gain, which is why reflective insulation is designed to reduce radiant heat transfer.



STATED R-VALUES

THICKNESS	TYPE	DOWN	UP	HORIZONTAL
1"	FGF	11.8	8.2	10.1
1"	FGVR	8.4	7.4	6.4

To achieve and maintain R-values, product must be installed per manufacturer instructions.

HOW IS THE R-VALUE DETERMINED?

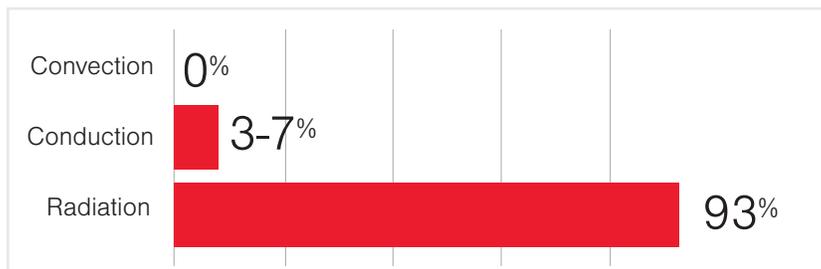
Reflective insulation R-values are determined using the ASTM C1224 test method, which measures the thermal performance of the entire installed assembly. The test includes framing, roof decking, and an air space, since reflective insulation relies on this air space to deliver its thermal performance.

WHY DO SOME REFLECTIVE INSULATION PRODUCTS CLAIM HIGHER R-VALUES?

Some manufacturers historically used the ASTM C976 test method, which allowed testing with larger air spaces. In 2003, the FTC ruled this method should no longer be used for advertising insulation R-values because it does not represent real installed conditions.

SUMMER HEAT GAIN

Heat transfers through convection, conduction, and radiation — with radiation accounting for the majority of summer heat gain.



PRODUCT STANDARDS

WIDTH: 72"

LENGTH: 80'

THICKNESS: 1"

TAB: 2-3" staple or 1-6" tab standard, optional 1-6" tab with double stick tape

FOIL FACING: 99.9% pure aluminum

NON-FOIL FACING: PSK-VR, VRR+

