

# the REFLECT-R Advantage



## Better Protection from external heat

REFLECT-R's pure aluminum facing reflects 97% of radiant heat gain.

## Faster Onsite installation

The rigidity of the 3/4" core, heavy duty reinforced facing and various tab options designed for every application will save you many man hours on the jobsite.

## Safer In-place fire protection

REFLECT-R's fiberglass core reduces the risk of fire spread as compared to many non-fiberglass core reflective insulations.

REFLECT-R is ASTM E84 and UL723 approved. REFLECT-R achieved a 25/50 rating which provides a Class A / Class 1 rating.

### PLANT LOCATIONS

Cleveland, OH • Lancaster, PA • Madison, WI  
Atlanta, GA • Phoenix, AZ • Dallas, TX  
Stockton, CA • Kent, WA • Spokane, WA

### CORPORATE OFFICE

31387 Industrial Parkway  
North Olmsted, OH 44070  
888-248-7858



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*Insulation Doesn't Cost, It Pays.*

[www.therm-all.com](http://www.therm-all.com)

# REFLECT-R *Get the Facts...*

## Product Standards

**Widths:** 72"

**Lengths:** 80'

**Thickness:** 3/4" standard, 1" optional

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

**Foil Facing:** 99.9% pure aluminum (standard)

**Non-Foil Facing:** PSK-VR (optional – reduces R-value)

## Stated R-Values

		Down:	Up:	Horizontal:
<b>3/4" Thick:</b>	FGF	11.6	7.0	8.5
	FGVR	7.8	5.4	6.0
<b>1" Thick:</b>	FGF	11.8	8.2	10.1
	FGVR	8.4	7.4	6.4

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

## Summer Heat Gain

Convection  
0%

Conduction



3%  
to  
7%

Radiation



Up to  
93%

Heat is transferred through three different processes: convection, conduction and radiation. Of these three, radiation creates 93% of summer heat.

## How is the R-Value determined?

The FTC (Federal Trade Commission) requires reflective insulation R-Values to be determined by using the ASTM C 1224 test. This test determines an R-Value for the entire assembly. The assembly consists of two 2"x4" wood studs 16" on center, 1/2" plywood deck on top and the insulation installed at the mid-span of the 2"x4". The reflective airspace is critical to creating R-Value. The greater the airspace, the greater the R-Value.

## How can other brands of reflective insulation claim to have a greater R-Value?

Some suppliers still use the ASTM C976 test which allows them to place the insulation on the outside edge of the 2"x4", thus creating a 3 1/2" air space. In July of 2003, the FTC ruled to no longer accept the ASTM C976 test as a "fair and accurate" test in establishing R-Values.

**REFLECT-R Results:**

- Infrared waves create radiant heat
- The waves travel at the speed of light, in straight lines
- With Reflect-R insulation, 97% of these waves are deflected



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