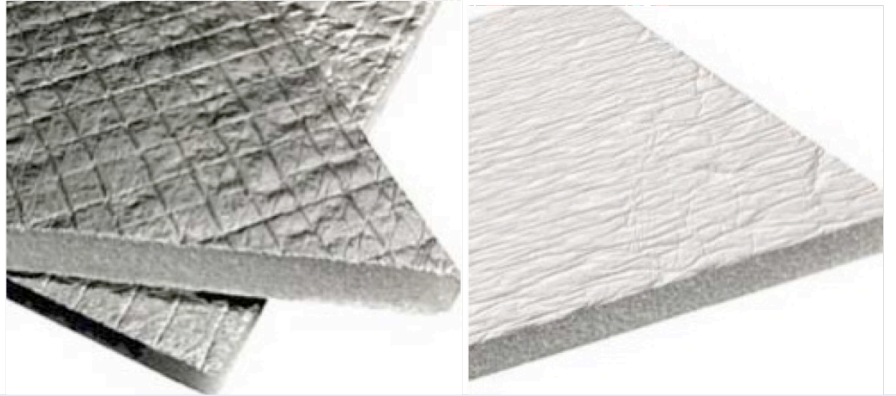


METAL BUILDING PARTS & SALES

Low-E Insulation

Metal Building
Parts & Sales
is an
authorized
supplier of
Low-E
Insulation

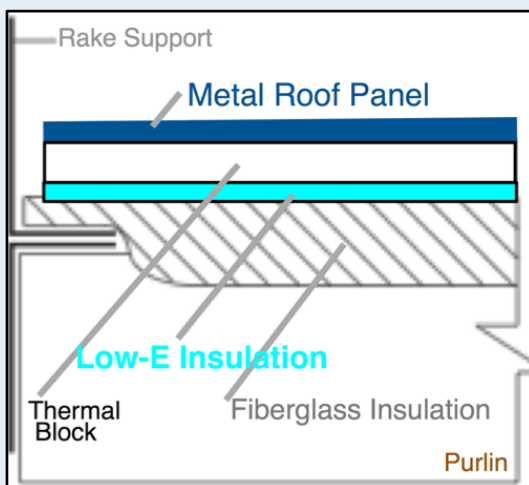


Low-E Insulation is a quality reflective insulation that is simple to install and environmentally friendly. It has a Class A Class 1 fire rating. By providing superior thermal performance either stand alone or in conjunction with mass insulations, Low-E can help increase energy savings.

It is a double sided scrimless aluminum foil laminated to polyethylene foam (1/4" nominal thickness). The core foam is bonded to two exterior faces of 99.4% pure, highly polished aluminum (not to be mistaken by the metalized finish on competitors' products called Mylar). The core is closed cell microscopic air bubbles (an alternative to bubble wrap). The patented process flame bonds the foil to the foam without glues. Low-E stops 97% of radiant energy that it encounters from passing through the product.

Low-E Insulation has a variety of products, sizes (width 4', 6' length 125', 84'), facings (foil & white foil), and edgings (trimmed, staple flange, EZ seal).

Meet the new energy codes with a Hybrid System

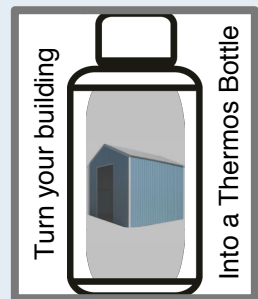


Low-E + 6" Fiberglass = R30 Roof Insulation

Keeping pace with the new energy code requirements – and how to meet them in metal buildings – can be a challenge. One easy solution is the hybrid system consisting of 6" faced fiberglass insulation with Low-E Insulation between the fiberglass and the metal roof panels.

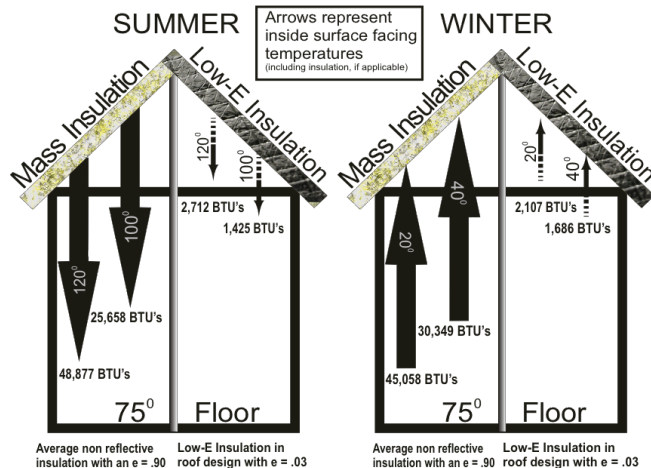
This hybrid system was tested at the Oak Ridge National Laboratory using 6" faced fiberglass (R19) with Low-E above (R11) and thermal blocks (R5) to make an R30 tested system.

Low-E Insulation resists all three types of heat transfer - Conduction, Convection, and most importantly, Radiant Energy Transfer. The design incorporates the proven effectiveness of the Thermos Bottle with improved flexibility. And unlike other types of mass insulations, Low-E Insulation does not absorb moisture at all. In fact, Low-E Insulation installed in conjunction with mass insulations can help them stay drier and warmer, eliminating dew points that may occur in the mass insulation, improving the performance of the mass insulation.



All building products have an "e" rating, most of them over .80
The graph below demonstrates what Low-E surfaces can do for you

What can Low-E do for me?



In the chart above we are demonstrating the difference in heat transfer with 75 degree floor temperature and using as an example, 120 degree summer inside roof temperature, with no Low-E, 48,877 btu's are transferred and with Low-E, 2,712 btu's are transferred.

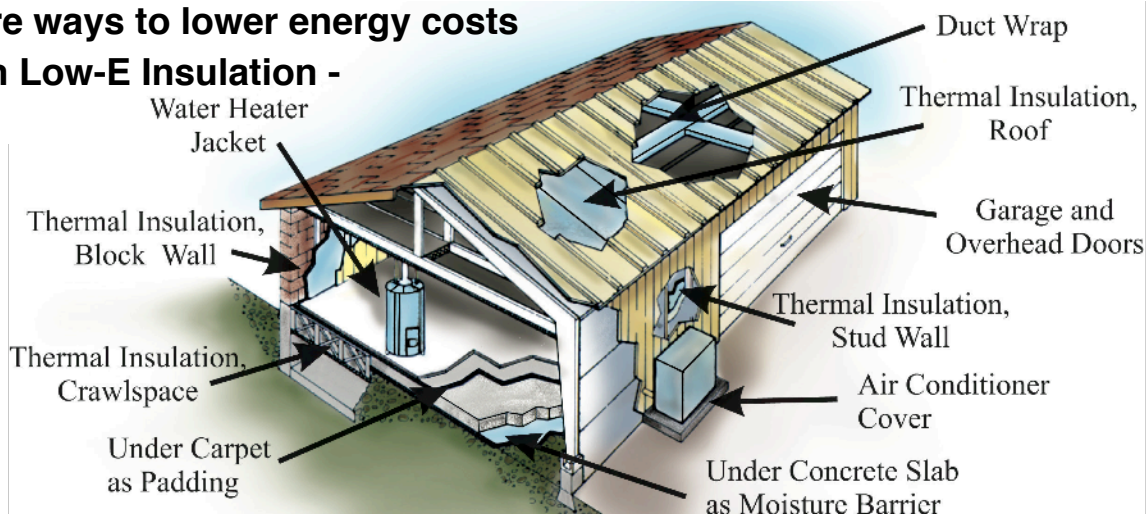
Benefits of Low-E Insulation

- Significantly reduces cost of installation
- Saves money on heating & cooling
- Stops 97% of radiant energy transfer
- Seals tightly around fasteners
- Superior water vapor retarder
- Maintains consistent System R-values
- Helps control condensation
- Absorbs high impacts
- Light-weight
- Clean and non-toxic
- Resists mold, mildew, most insects
- Excellent fire rating

Full Scale Fire Test: NFPA 286 - Passed / Flame and smoke: ASTM E-84 / Flame Spread: Less than 25 / Smoke Developed: Less than 50 / PERM Rating: E-96 - .008

Low-E Insulation products are designed for maximum cost savings and energy efficiency. Whether it's under the roof, under slab, around ductwork or wrapping the entire house, Low-E products save more money on heating and cooling than regular insulation and house wrap. In addition to the applications in metal roof and walls, the unique design and construction of Low-E Insulation can be used with products requiring heat control such as hot water heater blanket, overhead door insulation, under rafters or crawl spaces, pipe wrap, or re-usable air conditioner covers.

More ways to lower energy costs with Low-E Insulation -



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