

REFLECTIVE INSULATION - FROM NASA TO RESCUE MISSIONS BYPASSING THE HOMES...

Installing reflective insulation under the roof of the building will significantly reduce the heat gain of the roof. If you choose to fight the BTUs coming from under your roof using air conditioning, for example, you will need to spend money not only on the air conditioning unit itself, but you will also pay extra for your monthly electric bill. Yet, such simple measure as using reflective insulation to reduce heat gain is overlooked.

The concept of reflective insulation was first introduced in 1954. This concept has been employed by NASA on virtually all missions, one of the most memorable early displays being the shiny insulation coating on the base of the Apollo lunar landing vehicles. It is the same concept that we see in the "Space Blanket" used by marathons' organizers to keep runners from getting hypothermia, and which becomes synonymous with finishing a race. The same idea is employed by rescue blanket creators, who use the strong infrared-reflective insulating material as emergency blankets for victims of disasters, so they can wrap up and share body heat.

HVAC theories and applications help to face a challenge of creating climate-controlled environments in the most demanding circumstances and places: skating rinks, space ships, ship-building (engine room insulation). The most promising of the advanced HVAC engineering and innovative technologies on the market right now is the technology for application in roof heat gain scenarios: radiant barrier or insulation facings. This approach uses a thin layer of aluminum foil that's highly reflective; when laminated to a reinforcing layer and installed under the roof, it can reflect up to 95% of heat radiation, depending on various building engineering factors. This kind of radiant barrier material is strong, durable, lightweight, and easy to install using simple tools, construction staples, and foil tape. Radiant barrier technology is considered one of today's most powerful tools for reducing heat gain and thus reducing energy consumption in buildings of all types, shapes, and sizes.

Calem Technology offers insulation facings, radiant barrier, and vapour barriers with different properties: heavy duty reflective insulation, radiant and vapour barrier for industrial, commercial, and sport facilities, engine rooms etc. These products can be used as a flame retardant and tear resistant insulation, fiberglass ductboard facing, or for duct wrapping.

Advantages for wholesale buyers (Installer/Contractor):

- Our products are customized
 - o by composition
 - o by roll size (width)
 - o by packaging (industrial rolls or small packaging)
- We have variety of products to choose from (including complementary products: tapes, insulation, polyester film, etc)
- We offer logistic optimization by combining several different product in one order
- We offer competitive prices



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