McFOIL

MACBERTAN PRIVATE LIMITED
74, 1/1, Orient Building, Dawson Street, Colombo 02, Sri Lanka.
Tel : 00 94 7685721-6 / Fax : 00 94 7685727
Email : sisira@macbertan.lk / Web : www.macbertan.lk
Cool line : 0777 772854

MACBERTAN
(Private) Limited

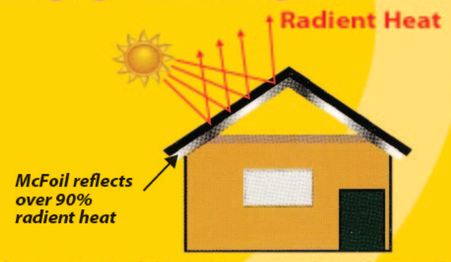
THE LEADER IN INSULATION

MCFOIL IS AN ENERGY SAVING PRODUCT CERTIFIED BY NERD

McFOIL

THE LEADER IN INSULATION

Thermal comfort is now a widely accepted norm in building design and construction. So much so, that whatever the type of building envisaged, optimal maintenance of thermal comfort to living creatures is a predominant consideration.



Insulating the envelope of a building's conditioned space yields following key benefits.

1. Provide a much more comfortable, productive and livavle structure.
2. The moisture condensation and air movement are minimized in well-insulated buildings.
3. Lower maintenance cost and increased longevity of the building structure.
4. Rdeuces energy requirements, which lowers utility bills.
5. Supporting economic, environmental and energy conservation goals.

Methods of Heat Transfer

Heat moves through roofs and wall cavities by;

1. Radiation,
2. Conduction and
3. Convection.

In tropical countries like Sri Lanka radiation is the dominant method of heat transfer.

A reflective insulation is an effective barrier against rediant heat transfer because it reflects almost all of the infrared radiation striking its surface and emits very little of the heat conducted through it.

What is a Reflective Insulation?

A reflective insulation consists of one or more low emittance surfaces, bounding one or more enclosed air spaces which BLOCKS radiant heat energy opposed to conventional mass insulations that work by absorbing heat energy.

Advantages of Reflective Insulation

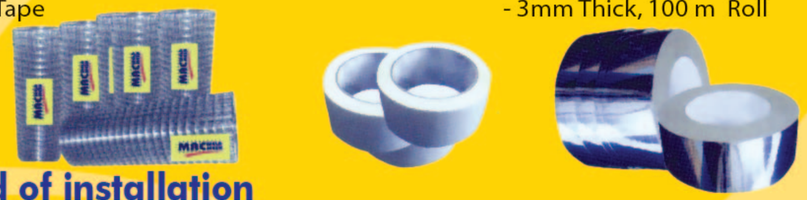
- High reflectivity
- Low emissivity
- Carries a Class 1 / Class A fire rating
- Strong but lightweight
- Clean and easy to install
- Unaffected by humidity and moisture
- Provides a vapor barrier
- Excellent longevity, will not lose it's performance
- Installls faster and easier than fiberglass
- Safer to install, requiring no special clothing or breathing protection
- Nontoxic, will not irritate the skin, eyes, or throat
- Creates a nice finsihed appearance when left exposed
- Saves energy and money all year around

Our product range

1) Radiant Barrier Material - Reflective Foil
2) Reflective Insulation - McFoil & McFoil-Ultra

Accessories

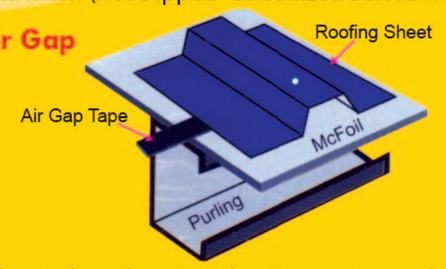
1) McWeld Mesh (Hot Dipped Galvanized Before Welded) - 6' X 6" (18 G) -1.83 X 30 m
2) Double Sided Adhesive Tape - 2' X 20 m Roll / 2' X 45 m Roll
3) Aluminium Foil Adhesive Tape - 2' X 45 Yards Roll
4) Air Gap Tape - 3mm Thick, 100 m Roll



Method of installation

1. Lay McFoil over and across the purlins, making sure Aluminium foil facing the roof sheet (single side products).
2. Use Air Gap Tape laid over the McFoil along the purlin to get a fine fixing effect and also to create the air gap.
3. In the Case of domestic application McFoil can be Nailed to the rafters.
4. After installing the first length of McFoil, roofing sheet can be installed over the insulation as per roofing sheet manufacturer's instructions.
5. Lay the second length of McFoil sheet parallel to the first length making sure seam is jointed by the 'Butt Joint' or 'Overlap Joint'(about 50mm).
6. When there is a large gap between purlins (more than 1.2m) and if there is a sagging in the process of installation of McFoil, using McWeld Mesh (Hot Dipped Galvanized Before Welded) is highly recommended.

Importance of Creating an Air Gap



McFoil Reflective Insulation works best when there is at least 3mm air gap between the roofng material and the Insulation. The gap provides the facility for radiation to take place.

MACBERTAN
(PRIVATE) LIMITED
PV 952