

INSTALLATION – METAL BUILDINGS

Lay SUNSTOP insulation on top of, and running at 90 degrees to the purlins or batons.

Allow the insulation to sag slightly between the purlins in order to create a 40mm air gap between the insulation and the cladding sheet.

This gap is very important as prevents the direct conduction of heat from the cladding sheets into the building. The gap also provides a degree of R-value.

HINT

If using safety mesh between purlins ensure that you incorporate the required sag while placing the safety mesh.

The insulation will be held in place by the cladding. Place your choice of cladding on top of the insulation and secure it to the purlins or batons as per manufacturers recommendations.

Overlap adjacent insulation sheets by 50mm, and after removing any dust or moisture seal with a good quality reflective tape.

The insulation may also be taped on the underside if preferred although this is more time consuming.

This technique applies to both roofs and walls.

Specifications	
Material	Aluminium/EPE/Aluminium
Thickness	4mm
Roll width	1200mm
Roll length	40m
Roll weight	11 KG

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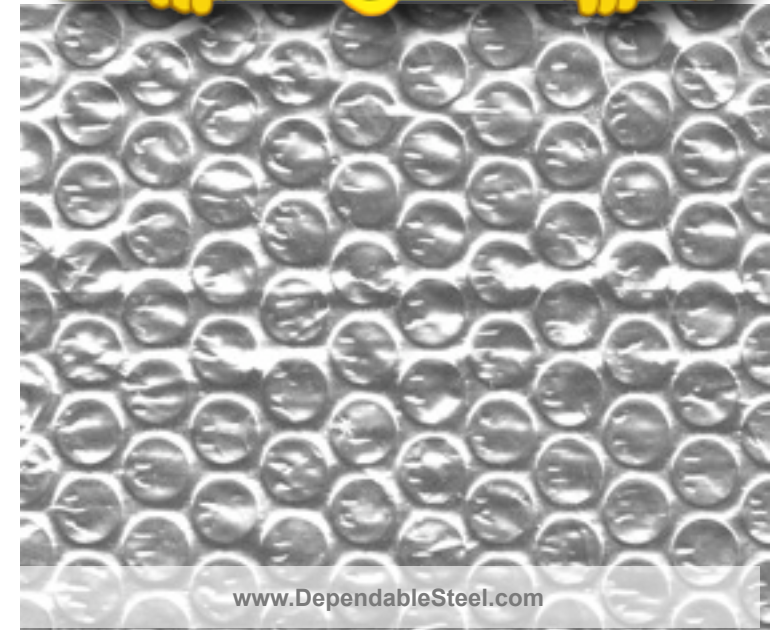
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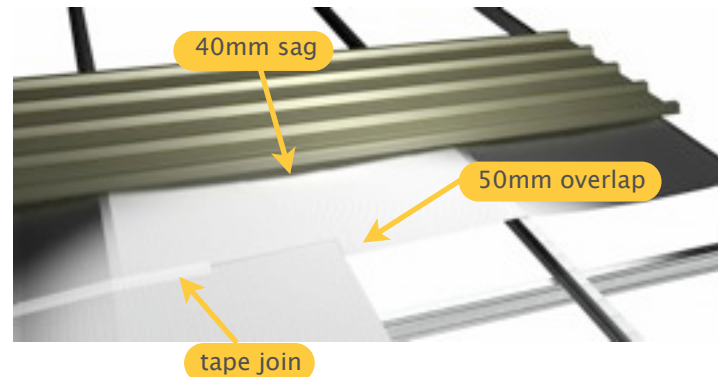
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SUNSTOP

REFLECTIVE INSULATION



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The smarter insulation solution

HOW DO RADIANT BARRIERS WORK

In Summer heat can enter a building in one of three ways:

Conduction – By direct heat transfer

Convection – By the movement of heat by air currents

Radiation – By the radiation of heat that emits from all objects including the sun

In terms of the incoming heat that enters a building, approximately 93% will be radiant heat, 5% conductive, and a negligible amount will be convective.

Familiar bulk insulation with nominated R-values such as Rockwool, Glasswool, and various Foams, including those used in sandwich panel work by reducing the amount of conductive heat but are totally ineffective against the major cause of heat increase which is radiant heat.

SUNSTOP is a radiant barrier and is effective at reflecting up to 95% of incoming radiant heat energy.

SUNSTOP consists of two layers of Aluminium foil which reflect incoming radiant heat, with an internal layer of bubbles which give the product strength, rigidity, and an amount of R-value.

REAL LIFE EXAMPLES

We are surrounded by many examples of radiant heat insulation, but we never stop to consider how they work.

Consider the reflective insulation you place in your car windscreen in summer to keep the heat out. Common sense would tell you that no amount of Foam, Glasswool, or Rockwool is going to keep your car cool in summer.

Emergency blankets are common place in first aid, and emergency kits, as they are the best means of retaining body heat in an emergency.

The protective outfits used in high temperature environments such as steel works are silver as reflecting heat is the best way to keep high temperatures out.



The vacuum thermos is lined with a highly reflective surface which in conjunction with the vacuum serves to keep drinks hot or cold for hours. Without the reflective liner the drinks would quickly lose or gain radiant heat to the outside environment. A foam cup is effective for a short time but will eventually lose or gain heat due to radiant heat transfer.

Bulk insulations do have their place, particularly in cold climates where convective and conductive heat transfer is more significant. But in hot climates reflective insulators are the most effective.

BENEFITS OF SUNSTOP

- Reflects 96% of radiant energy
- Negligible heat retention and re emission
- Non-toxic / non-carcinogenic
- Does not absorb moisture
- No protective clothing or respirators to install
- Fire Resistant
- Durable and lightweight
- Fiber-free
- Can be cut with ordinary scissors
- Does not promote nesting of insects or rodents
- Easy to install
- Mold and mildew resistant
- Acts a vapor and moisture barrier

