

# MegaMas™

## Glass Wool Insulation

Fibreglass Wool Blanket is manufactured from a mat of glass wool bonded with a thermosetting resin, forming a lightweight and flexible insulation material.

Apart from providing good thermal insulation qualities, it is also an effective sound absorption material.

### APPLICATIONS:

- Roofing
- Air-conditioning
- Various thermal and acoustic isolation

### ADVANTAGES:

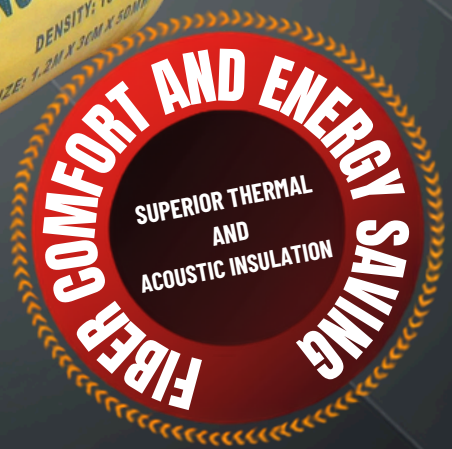
- ✓ Thermal Performance
- ✓ Noise Control
- ✓ Durable
- ✓ Easy To Install
- ✓ Energy Saving



Vacuum Packed Glass Wool

Yellow Plastic Sheet (Inner Layer)

Yellow Woven Sheet (Outer Layer)



Another quality product from



## INTRODUCTION

ROOFING - Fibreglass Wool Blanket is commonly used for the underside of metal roofing in industrial projects to reduce heat gain and loss. For sound absorption, it reduces noise from rain drumming. It can be extensively used for all types of residential, commercial and industrial projects which require excellent thermal and acoustic insulation. The glass wool can either be installed between the roof trusses or just above the ceiling. Single sided or double sided aluminium foil has to be placed below the glass wool blanket for vapour barrier application.

## ADVANTAGES

### THERMAL PERFORMANCE

- MEGAMAS™ Glass Wool provides ideal thermal insulation to reduce heat gain or loss through the roof and enhance the comfort level of building occupants.

### NOISE CONTROL

- MEGAMAS™ Glass Wool is the best acoustical properties to reduce the level of unwanted noise effectively.

### DURABLE

- It also offers excellent fire-resistant properties.
- Besides, it is also highly resistant to the effective of humidity, aging, corrosion and rust.

### EASY TO INSTALL

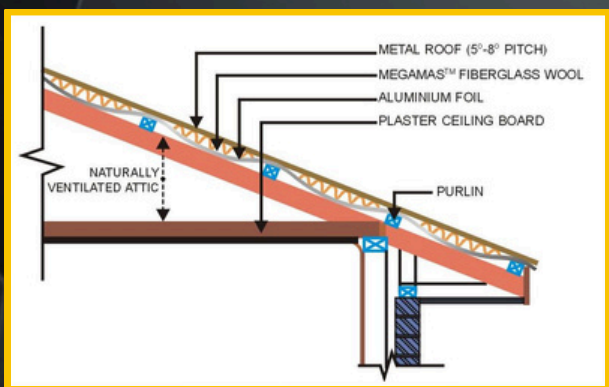
- It is lightweight, easy to carry and thus offers advantages of short work cycles. It could lower the labour costs on the field.
- It is also friendly for worker safety as it is non-toxic and non-irritant to skin.

### ENERGY SAVING

- Both thermal and acoustic insulation are essential to the preservation of the environment. Thermal insulation conserves energy by reducing operating costs on mechanical and electrical equipments.

## STANDARD DIMENSION

Thickness (mm)	Density (kg/m <sup>3</sup> )	Width (m)	Length (m)
50	10	1.2	30



## FIRE PROPERTIES

MEGAMAS™ Glass Wool Insulation is non-combustible and are tested in accordance with:

- B. S. 476 : Part 6 Fire propagation
  - B. S. 476 : Part 7 Surface spread of flame
- Comply with BOMBA Class "O" Certification and other Building Regulations.

## GENERAL PROPERTIES

	Density	Results
Thermal Resistance, R-Value at 20° C (Higher R-Value means better the insulating power)	10kg/m <sup>3</sup>	0.753 m <sup>2</sup> K/W
Thermal Conductivity, K-Value at 20° C (W/mK)	10kg/m <sup>3</sup>	0.035 W/mK
Maximum Service Temperature <ul style="list-style-type: none"> <li>• Unfaced</li> <li>• Faced</li> </ul>	350°C (662°F)	121°C (250°F)
Moisture Absorption		Less than 5% by weight (ASTM C665)
Alkanility		ph9, slightly alkaline
Corrosiveness (with steel, copper or aluminium)		Does not accelerate
Odour		None
Capillarity (after 24 hours)		Negligible
Shrinkage		None
Resistance to fungus and bacteria		Does not promote

## R-VALUE

R-Value refers to the thermal resistance of any insulation material. It is the overall ability of an insulation material to resist (retard) heat flow, taking into account both the thermal conductivity (K-Value) and the thickness of insulation material. It is used in calculating overall heat transmission coefficients and is expressed as m<sup>2</sup>K/W (meter square kelvin per Watt).

$$R\text{-Value} = \frac{\text{Insulation Material Thickness (metre)}}{\text{Insulation Material K-Value (W/mK)}}$$

The higher the R-Value, the higher the insulating power. Higher R-Values are more effective in maximizing your energy savings and comfort.

FOR MORE INFO,  
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