



MOY ISOVER

Metac Rafter Roll / Batt

Introduction

Metac Rafter Roll/Batts are lightweight insulating roll/batts manufactured from mineral wool. This product has been specifically developed for use in ceilings that follow the pitch of the roof and enclose a habitable space, thus servicing the market of the attic conversions and new dormer bungalow construction.

Building Specifications

If the sarking felt is not vapour permeable a minimum of 50mm airspace should be maintained between the insulation and the sarking felt. The structure should be lined on the room side with a vapour control membrane and Gyproc plasterboard. If the sarking felt is vapour permeable then the insulation can be fitted to the sarking felt.

Environmental

The basic constituent of Metac Rafter Roll/Batts is glass mineral wool, manufactured from silica sand, the Earth's most abundant naturally occurring mineral.

Glass mineral wool is one of the most environmentally friendly insulation materials. Inorganic and completely inert, over 70% of the raw material used in the production process is recycled glass.

This process does not include the use of CFC's, HCFC's.

Durability

- Odourless, inert and fully compatible with all standard building materials and components.
- Will not accelerate corrosion of steel, copper or aluminium.
- Will not sustain vermin or promote the growth of mould, fungi or bacteria.
- Will not slump or consolidate in normal building applications.

Benefits

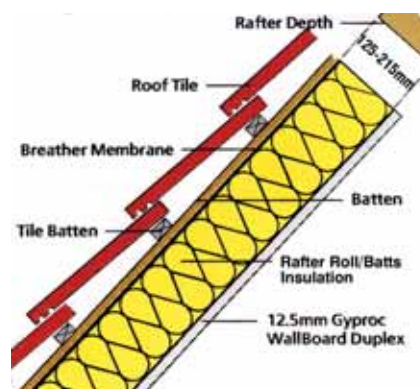
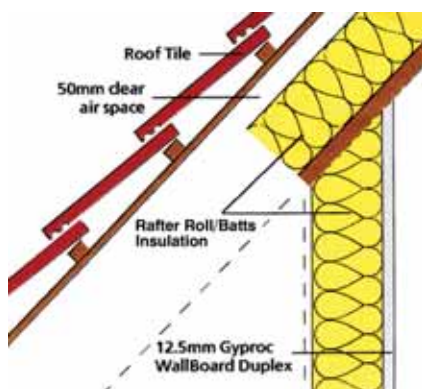
- Provides a simple and cost effective thermal solution for warm roof applications.
- Easy to install.
- Long product life – will not age.
- Will tolerate structural movement and settlement.
- Building Regulations Part L compliant.

Fire Performance

Made from inherently non-combustible materials, Moy Isover Metac Rafter Roll/Batts are completely fire safe, achieving a Euroclass A1 fire rating when classified in accordance with EN 13501-1.



FIRE



Sloping Ceilings with Alternate Rafter Depths

Table 1

The Elemental and Overall Calculation Method fully comply with the Building Regulations Part L of 2002.

Rafter Depth	Required U. Value	Insulation fully fitted with a vapour permeable sarking felt. No air space required.	Ventilated design with traditional sarking felt, 50mm air space required.
125 mm @ 40 mm + 600 mm centres	Elemental U. Value .20	130mm Metac required between the rafters + 50mm PIR laminated board fixed across the rafters.	80mm Metac required between the rafters + 62.5mm PIR laminated board fixed across the rafters.
	Overall Calculation Method U. Value .25	130mm Metac required between the rafters + 37.5mm PIR laminated board fixed across the rafters	80mm Metac required between the rafters + 42.5mm PIR laminated board fixed across the rafters.

Table 2

Rafter Depth	Required U. Value	Insulation fully fitted with a vapour permeable sarking felt. No air space required.	Ventilated design with traditional sarking felt, 50mm air space required.
150mm @400mm + 600mm centres	Elemental U. Value .20	150mm Metac required between the rafters + 37.5mm PIR laminated board fixed across the rafters.	100mm Metac required between the rafters + 50mm PIR laminated board fixed across the rafters.
	Overall Calculation Method U. Value .25	150mm Metac fitted between the rafters.	100mm Metac required between the rafters + 37.5mm PIR laminated board fixed across the rafters.

Table 3

Rafter Depth	Required U. Value	Insulation fully fitted with a vapour permeable sarking felt. No air space required.	Ventilated design with traditional sarking felt, 50mm air space required
175mm @400mm + 600mm centres	Elemental U. Value .20	150mm Metac required between the rafters + 37.5mm PIR laminated board fixed across the rafters.	130mm Metac required between the rafters + 37.5mm PIR laminated board fixed across the rafters.
	Overall Calculation Method U. Value .25	150mm Metac fitted between the rafters.	150mm Metac fitted between the rafters.

Table 4

Rafter Depth	Required U. Value	Insulation fully fitted with a vapour permeable sarking felt. No air space required.	Ventilated design with traditional sarking felt, 50mm air space required.
215mm @400mm + 600mm centres	Elemental U. Value .20	200mm Metac fitted between the rafters.	180mm Metac fitted between the rafters.
	Overall Calculation Method U. Value .25	150mm Metac fitted between the rafters.	150mm Metac fitted between the rafters.

Product Details

Thickness mm	Width mm	Length	Area per Roll m ²	Thermal Conductivity	Thermal Resistance
80mm	1200mm	9m	10.8 sq. mt	0.034 w/mk	2.35 m ² k/w
90mm	1200mm	8m	9.6 sq. mt	0.034 w/mk	2.65 m ² k/w
100mm	1200mm	7m	8.4 sq. mt	0.034 w/mk	2.94 m ² k/w
150mm	1200mm	4.8m	5.76 sq. mt	0.034 w/mk	4.41 m ² k/w
180mm	1200mm	4m	4.8 sq. mt	0.034 w/mk	5.29 m ² k/w
220mm	1200mm	3.3m	3.96 sq. mt	0.034 w/mk	6.47 m ² k/w