

Metac – High performance insulation

DESCRIPTION

Metac is a high-quality thermal insulation designed for a wide range of applications where space is at a premium and a high spec u-value is required.

STANDARDS

CE Marked: EN 13162:2001-10



BENEFITS

- Improved u-values
- Less thickness required (when compared to standard products)
- Engineered to friction fit between studs & rafters
- Exceptional tear strength
- Totally non-combustible
- Durable - not easily damaged in storage, during transport or on site when installed
- Easy to install
- Long product life - will not age



FIRE PERFORMANCE

Completely fire safe - Euroclass A1 fire rating when classified in accordance with BS EN 13501-1.

ENVIRONMENTAL INFORMATION

Isover glass wool insulation is manufactured from a combination of silica sand and up to 80% recycled post-consumer glass from building regeneration projects or flat glass manufacture that would otherwise go to landfill. This makes Isover one of the most environmentally sustainable insulation products on the market today. The material credentials of installing Isover glass mineral wool insulation include:

- Zero ODP (Ozone Depletion Potential)



- Zero GWP (Global Warming Potential)



BRE GREEN GUIDE SPECIFICATION

Product rating: Glass mineral wool insulation products have a 'best-in-class' A+ rating (via generic listing).
Construction rating: Common constructions which are insulated with Isover insulation products will typically deliver an A+ rating for that particular element.



ACOUSTIC COMFORT



FIRE PROTECTION



THERMAL EFFICIENCY



SUSTAINABLE PRODUCT



ON-SITE FITABILITY



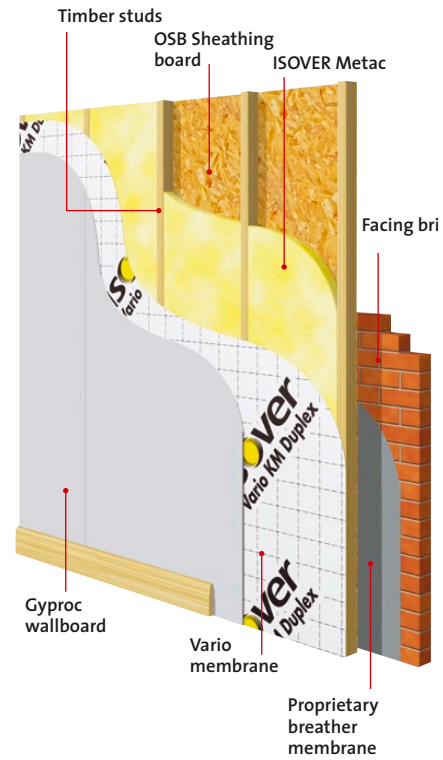
MOISTURE CONTROL

ISOVER

Sustainable insulation solutions

THERMAL PERFORMANCE AND U-VALUE – EXTERNAL WALLS

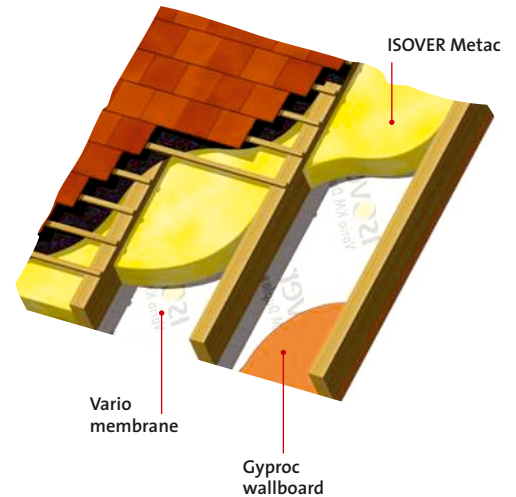
Product	U-value W/m²K	
	12% Lower timber fraction	15% Default timber fraction
150mm metac	0.25	0.26
180mm Metac	0.22	0.23
220mm Metac	0.17	0.18



THERMAL PERFORMANCE AND U-VALUE – SLOPING CEILINGS

Insulation thickness	Ceiling lining:	Ceiling membrane:	U-value W/m²K
180mm metac	Gyproc wallboard	Vario KM Duplex	0.20
150mm Metac + 42.5m Calibel	Gyproc wallboard	Vario KM Duplex	0.20
220mm metac	Gyproc wallboard	Vario KM Duplex	0.17

If the sarking felt is vapour permeable then the insulation can be fitted to the sarking felt



PRODUCT DETAILS

Thickness mm	Width mm	Length m	Area per roll m²	Thermal conductivity W/mK	Thermal resistance m²K/W
25	2 x 1200	10	24	0.034	0.74
50	1200	12	14.4	0.034	1.47
90	1200	8	9.6	0.034	2.65
100	1200	7	8.4	0.034	2.94
150	1200	4.8	5.76	0.034	4.41
180	1200	4	4.8	0.034	5.29
220	1200	3.3	3.96	0.034	6.47

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