## **Product Information Sheet**







### Product Name ISOVER Metac - high performance insulation

Metac G3 Touch is a high performance low lambda mineral wool insulation roll with both excellent thermal and acoustic properties. Metac is designed for a wide range of applications where space is at a premium and a low U-value is required. Thermal and sound insulation in Timber Rafters, Timber Frame Walls and Metallic Buildings non-residential applications.

ISOVER G3 Touch – all our mineral wool products are manufactured using G3 Touch technology High performance mineral wool insulation, naturally strong & gentle - made from recycled materials.







W/mK 0.034

BENEFITS AND FEAT	URES
THERMAL	Thermal Conductivity 0.034 W/mK. Delivers excellent u-values, improving BER rating while reducing energy bills and carbon footprint. Requires less thickness than standard mineral wool insulation
ACOUSTIC	Excellent Acoustic Performance Metac helps to substantially reduce rain, wind and traffic noise to provide increased levels of acoustic comfort within a home
FIRE	Excellent Fire Safety - A1 Fire Rated, highest possible rating. Completely fi re safe - Euroclass A1 fire rating when classified in accordance with BS EN 13501-1.
MOISTURE	Vapour permeable breathable insulation. Improves energy performance and reduces heating & cooling costs.
STRENGTH	Excellent Recovery and strength, no slump when installed in rafters or wall studs. Self supporting slab in a roll
EASY TO INSTALL	Friction fits between timber joists. Easy to install.
BREATHABILITY	The breathability of Metac compliments the dynamic characteristics of the Vario™ intelligent membrane range.
	When installed with Vario XtraSafe, Metac can be fully filled between rafters below both breathable and non-breathable roofing systems.*

ENVIRONMENTAL CREDENTIALS	Made from recycled glass. Minimal manufacturing and on-site wastage. Low carbon footprint at manufacture and during transport.
EASY TO TRANSPORT	Metac's compact roll format makes it very easy to transport and handle. This means fewer trips to your provider and no pre-cutting before it can be brought into tight spaces like attics
TEMPERATURE	Temperature behaviour use up to 150 °C
SPECIFIC HEAT CAPACITY	0.84 kJ / (kg×K
WATER VAPOUR DIFFUSION	1-2 EN 12086



STANDARDS & CE	RTIFICATION	DURABILITY	Fire Performance Euroclass classification of the product is related to the organic content,
QUALITY	We hold a Quality Management Standard BS EN ISO 9001: 2008 for manufacturing.		which cannot increase with time. Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity
CE	All products are manufactured in accordance with the CE marking requirements under the Construction Products Regulation,		contains no other gases than atmospheric air. (See std EN13162:2012 Annex ZA, Table ZA.1) Will not accelerate corrosion with steel, copper or aluminium. Will not sustain vermin, nor breed or promote fungi or bacteria.
PRODUCT STANDARDS			Pitched Roof, Masonry Walls, Timber Frame Walls, Floors, Roofs, External Walls, Attic,
ENVIRONMENT	ISOVER is an ISO 14001:2004 (Environmental Management System) accredited manufacturing facility. This accreditation ensures that all products are manufactured to the stringent standards set out by this management system. EN ISO 13162 EMS 551706 003 BS EN ISO 9001: 2000		Suspended Floors
INDOOR AIR	Awarded the highest standard in indoor air quality - Eurofins "Gold" Label		
QUALITY	The Gold Certificate means that ISOVER mineral wool is certified as an outstanding material in terms of Indoor Air Quality emissions regulations.		





# ISOVER Metac Applications

#### Pitched Roof Counter Battens

INSULATION 1ST LAYER	Insulation 2nd Layer	Airtightness and Moisture Control	Board Lining	U-Value W/m <sup>2</sup> K
200mm Comfort 35	50mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.15

#### Pitched Roof- Insulation between rafters

INSULATION	SULATION Airtightness/ Moisture Control		U-Value W/m²K
180mm Metac Vario membrane + tapes		12.5mm Gyproc WallBoard	0.22
220mm Metac Vario membrane + tapes		12.5mm Gyproc WallBoard	0.17
300mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.13

#### Timber Frame Dryling Timber Frame Walls

INSULATION TIMBER STUDS	Insulation in Optima	Airtightness and Moisture Control	Board Lining	U-Value W/m²K
150mm Metac	60mm Comfort 35	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.16

#### Masonry Dry Lining Cavity Wall - Partial Fill

INSULATION	U value W/m²K	Total thickness of drylining system (mm)
100mm Metac	0.19	132.50

#### Masonry Drylining Hollow Block

INSULATION	U value W/m²K	Total thickness of drylining system (mm)
100mm Metac	0.28	132.50

#### Masonry Drylining Concrete wall

INSULATION	U value W/m²K	Total thickness of drylining system (mm)
100mm Metac	0.27	132.50

#### Masonry Drylining Single Brick Construction

INSULATION	U value W/m²K	Total thickness of drylining system (mm)
100mm Metac	0.27	132.50

#### Masonry Cacity Walls Patitial/ Full Fill + Optima

CAVITY INSULATION	Drylining Insulation	Airtightness/ Moisture Control	Board Lining	U-value W/m²K
85mm Hi-Cav 33	100mm Metac	Vario membrance + tapes	12.5mm Gyproc WallBoard	0.16
100mm Hi-Cav 34	100mm Metac	Vario membrance + tapes	12.5mm Gyproc WallBoard	0.14



#### Timber Frame Insulation between studs

INSULATION	Airtightness and Moisture Control	Board Lining	U-Value W/m²K
150mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.26
180mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.21
220mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.19

#### Timber Frame Insulation between studs and couter batten

INSULATION	Insulation in counter batten Airtightness/ Moistu Control		Board Lining	U-value W/m <sup>2</sup> K		
150mm Metac	50 mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.19		
180mm Metac	50 mm Metac	Vario membrance + tapes	12.5mm Gyproc WallBoard	0.17		
220mm Metac	50 mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.15		

#### Timber Frame Dryling Timber Frame Walls

INSULATION TIMBER STUDS	Insulation in Optima	Airtightness and Moisture Control	Board Lining	U-value W/m²K
150mm Metac	50 mm Metac	Vario membrane + tapes	12.5mm Gyproc WallBoard	0.18

For more applications and product details, please visit www.isover.ie

# Variants

VARIENTS	Thickness (mm)	Width (mm)	Length (mm)	Pack area (m²)	Rolls per pallet
Metac G3 Touch	50	1200	9300	11.16	18
Metac G3 Touch	100	1200	6000	7.20	18
Metac G3 Touch	150	1200	4100	4.92	18
Metac G3 Touch	150	3x400	4100	4.92	18
Metac G3 Touch	180	1200	3400	4.08	18
Metac G3 Touch	180	3x400	3400	4.08	18
Metac G3 Touch	220	1200	2900	3.48	18



## **Basic Installation Steps**



 Measure the depth and the width of your rafters and choose the product thickness to suit the thermal performance requirements.

Measure the length of the building (dimension running opposite to the direction of the rafters) and the span (length) of the rafters.

Multiply twice the span of the rafters by the length of the building.

2. Lift your Metac insulation into the attic – whilst keeping the packaging on.



 Measure and cut the roll to match the width between your rafters allowing approximately 10mm extra on dimension.
Open one section at a time as and when you are ready to install it.



 Unroll it to allow full thickness recovery and then cut to length using a straight edge to help ensure a clean straight cut.



 ISOVER recommends best practice by installing 50x50mm counter battens in the opposite direction below the rafters.

6. ISOVER recommends installing Metac with

acoustic performance coupled with airtightness and moisture protection. Vario

XtraSafe membrane (Sd value 0.3 - 20m) is

specifically designed to provide increased

rafters when used with our Vario XtraSafe

membrane installed below the insulation

with Gyproc Plasterboard to complete the installation - this provides the safest solution to protect timber rafters from

\* For full guidance on full fill solutions contact our Technical Support Team. For more installation details visit

protection against moisture damage.

Metac can be fully filled\* between

moisture damage.

www.isover.ie

Vario to provide the best thermal and

This creates a service zone without the need to penetrate the Vario membrane.



 To increase U-value performance friction fit additional 50mm Metac between the counter battens.



 Push and friction fit the insulation in between the rafters (taking care not to compress it) keeping Metac flush with the face of the rafters. Ensure eaves ventilation is maintained where required.



9. Finally use Gyproc Plasterboard applied to counter battens to complete the installation.

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