



YOUNG THERM® GLASS WOOL MBI

Thermal and Acoustic Insulation

GENERAL DESCRIPTION

YOUNG THERM® Glass Wool MBI is a lightweight, flexible, non-combustible glass wool insulation blanket designed for commercial and industrial roofing applications. The product is faced with reinforced foil, white metallised foil, or black metallised foil for enhanced thermal and condensation control performance.

FIRE PERFORMANCE

YOUNG THERM® Glass Wool MBI complies with the following fire performance standards:

- **Class A2** — Non-combustible classification
- **Fire Rating: s1, d0**
- **SANS 53501-1**

Approved for use in single- and multi-level buildings where fire compliance is required.

FEATURES & BENEFITS

- Lifelong energy savings
- Excellent thermal and acoustic properties
- Maintenance free
- Long product life — will not readily age
- Helps to prevent condensation
- Compression packed for optimised transport and storage
- Significantly reduces heat loss/gain
- Suitable for high humidity applications
- Made to size to reduce wastage - **subject to minimum order quantity**

APPLICATIONS

Commercial & Industrial roof insulation:

- Over purlin installation (new buildings)
- Between purlin installation (existing buildings)

Should not be installed where facing material is exposed to direct or indirect ultraviolet radiation

THERMAL PROPERTIES

Reduces heat gain and heat loss through roof assemblies via conductive thermal resistance. K-Value: 0.038 W/m·K

ACOUSTIC PROPERTIES

Offers exceptional noise absorption and enhances indoor environmental quality, particularly in large-span commercial and industrial buildings.

HANDLING AND STORAGE

Store product under cover and in dry conditions. Store flat. Handle with care, especially on edges and corners. Avoid applying excessive pressure.

COLOUR OPTIONS

- White Metalized Foil
- Black Metalized Foil
- Reinforced Foil

SUSTAINABILITY AND COMPLIANCE

YOUNG THERM® Glass Wool MBI is manufactured in accordance with recognised quality and environmental management systems:

- Zero Ozone Depleting Potential
- Zero Global Warming Potential
- Reduced material usage and emissions through efficient manufacturing
- **ISO 9001:2015 – Quality Management**
- **ISO 14001:2004 – Environmental Management**

DURABILITY

- Odourless, inert and compatible with all standard building materials
- Will not promote corrosion of steel, copper or aluminium
- Will not sustain vermin
- Will not breed or promote fungi, mould or bacteria
- Non-hygroscopic
- Dust settlement will not hamper product performance

STANDARD PRODUCT DIMENSIONS AND THERMAL VALUES

DENSITY	R-VALUE	THICKNESS	ROLL LENGTH	WIDTH	K-VALUE
12kg/m ³	1.30	50 mm	10 m	1200 mm	0.038
12kg/m ³	1.95	75 mm	10 m	1200 mm	0.038
12kg/m ³	2.60	100 mm	10 m	1200 mm	0.038
12kg/m ³	3.52	135 mm	10 m	1200 mm	0.038

INSTALLATION GUIDELINES

- When installing insulation blankets over purlins in new buildings, ensure straining wires are spaced at 300 mm intervals
- Secure the blanket at the roof apex and unroll it lengthwise, removing any slack before fastening it to the bottom purlin
- To join adjacent blankets, overlap the foil edges, staple them together, then fold the joint over and staple once more to secure the seam
- Extra care should be taken when installing during windy conditions

SUPPLIER AND TECHNICAL SUPPORT

YOUNG THERM® Glass Wool MBI is supplied and supported by **Youngman Roofing & Insulation**, an established South African manufacturer and distributor of roofing and insulation solutions for industrial and commercial applications. For technical assistance, product selection, specification support, and project-specific guidance, contact:

T: +27 (0) 21 511 8125
E: info@youngman.co.za
W: www.youngman.co.za

Technical consultation is recommended to confirm product selection, thickness, and installation requirements for specific project conditions.

Member of



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