

ECOWOOL™ CLASSIC BOARD

Glass Mineral Wool Insulation



DESCRIPTION

ECOWOOL™ CLASSIC board is specifically designed to provide superior fire resistance, acoustical and thermal insulation properties when installed in glass, metal or in fabricated metal pans. ECOWOOL™, the new generation of glass mineral wool has been engineered to provide the highest levels of thermal and acoustic performance for building occupants to achieve the level of indoor comfort deserved.

Made from almost 80% recycled glass and locally sourced raw materials, ECOWOOL™ range of glass mineral wool is perfectly in tune with sustainability and environmental concerns.

FACTORY LAMINATED FACING

Laminated with a high end durable single or double sided aluminum foil facing. The aluminium foil facing material is laminated online using specialized heater for aluminium foil faced board.

THERMAL AND ACOUSTICAL SOLUTION

The extremely fine fibres create an enormous number of minute air spaces, making the insulation highly effective for sound absorption and thermal insulation properties. They yield readily to impact and protect facings from puncture or tearing.

ADVANTAGES

Optimal fibre diameter. Optimal fibre diameter ranging from 4-5 micron produces more air chamber which enables the insulation to provide a better and enhanced performance.

Better fibre network. Fine, longer and evenly distributed fibre network helps in creating better tensile strength allowing the insulation to demonstrate superior durability, flexibility and feeling much softer.

Less dusty and less itchy. Specifically engineered to produce a comfortable and less dusty insulation. The insulation creates a pleasant work experience by reducing the tingling feeling during installation.

Alkalinity. pH 9.

Absorbs Disturbing Sound. Exceptional sound-absorbing properties. Eliminates unwanted boundary reflections and controls excessive room reverberation. NRC rating up to 1.0

Mould Growth. Does not encourage growth of mould, fungus, bacteria or rodents.

Corrosiveness. Chemically inert. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum due to its specifically inorganic and mineral composition.

APPLICATIONS

Custom curtain wall construction. Exterior curtain wall cavities – exceptionally well suited to curtain wall construction in terms of both installation and performance.

Standard metal panel construction. Field-installed between an interior liner and the outer metal panel using boards that are plain or faced with a factory-applied vapour retarder.

New and retrofit construction. Provides thermal and acoustical insulating values for exterior curtain wall cavities, parking structures, mechanical rooms, theaters, casinos and other construction applications.

General construction. A versatile insulation, it is also an ideal thermal barrier for masonry or concrete structures such as shopping centers, banks and other types of low-rise buildings. In masonry applications, the glass mineral wool boards faced with an FSK vapour retarder are installed between “Z” or hat channels applied directly to the masonry surface.

MS1020:2010 CERTIFIED

BROWNIE® is MS1020:2010 compliant product. The certification is accredited by SIRIM QAS.

CIDB CERTIFIED

BROWNIE® is certified by CIDB according to Section VIIA CIDB Act (2011 Amendment). Please contact PGF Insulation representative for further information.

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FIRE PROPERTIES

- Tested in accordance with (plain/unfaced):
- B.S. 476: Part 6 Fire propagation
 - B.S. 476: Part 7 Surface spread of flame
 - BOMBA Class "0"
 - ASTM E84

ACOUSTICAL PERFORMANCE

Not only an effective thermal insulation, ECOWOOL™ CLASSIC board acts as a natural and effective sound barrier. ECOWOOL™ CLASSIC board is amongst the most effective acoustic insulation solutions when sound proofing is required. Please contact PGF Insulation representative for further information.

THERMAL CONDUCTIVITY

Tested and complies with ASTM C518 at 20°C mean temperature. Please refer to the table on products available for more information on the thermal conductivity and resistance values.

AVAILABLE FORMS

Unfaced or Plain - unfaced boards are designed for thermal and acoustical insulation applications.

Faced with Single Sided Foil (Foil-Scrim-Kraft) - Faced boards can be used where a vapour barrier is needed. Available either in single sided or double sided FSK Foil.

Faced with WGF (Woven Glass Fabric) - Faced with rich matte black color acoustic material. This lightweight, high-tensile strength fabric which will not rot, tear or wear.

PRODUCT RANGE

Available in either semi rigid or rigid form.

Semi Rigid Board : EWBR2532, EWBR5048, EWBR5032, EWBR2548

Rigid Board : EWBR2564, EWBR5064, EWBR2580, EWBR5080
EWBR2596, EWBR5096

PRODUCTS AVAILABLE

ECOWOOL™ CLASSIC BOARD (1.2m x 2.3)		
	EWBR 2532	EWBR 5032
Thickness (mm)	25	50
K-Value (m²K/W)	0.0327	0.0327
R-Value (W/mK)	0.75	1.55
EWBR 2548		
EWBR 5048		
Thickness (mm)	25	50
K-Value (m²K/W)	0.0309	0.0309
R-Value (W/mK)	0.80	1.60
EWBR 2564		
EWBR 5064		
Thickness (mm)	25	50
K-Value (m²K/W)	0.0309	0.0309
R-Value (W/mK)	0.80	1.60
EWBR 2580		
EWBR 5080		
Thickness (mm)	25	50
K-Value (m²K/W)	0.0309	0.0309
R-Value (W/mK)	0.80	1.60
EWBR 2596		
EWBR 5096		
Thickness (mm)	25	50
K-Value (m²K/W)	0.0309	0.0309
R-Value (W/mK)	0.81	1.60

SHORT FORM SPECIFICATION

Plain or Unfaced

All glass mineral wool insulation shown on drawings or specified herein shall be ECOWOOL™ CLASSIC BOARD _____ kg/m³, with thickness of _____mm. Thermal resistance "R-Value" of the insulation shall be R ____.

Faced

All glass mineral wool insulation shown on drawings or specified herein shall be ECOWOOL™ CLASSIC BOARD _____ kg/m³ with thickness of _____mm and faced with _____ (single sided FSK, Double sided FSK, WGF) facing material. Thermal resistance "R-Value" of the insulation shall be R ____.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of the glass mineral wool insulation listed herein represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. The suitability of the product is not binding for special individual cases. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information. Version of 1st May 2016.

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