

# POLYWOOL BLANKET

## Glass Mineral Wool Insulation



### DESCRIPTION

POLYWOOL blanket, the new generation of glass mineral wool has been engineered to provide the highest level of insulation performance for building occupants to achieve the optimum level of indoor comfort deserved.

### APPLICATIONS

Recommended as a thermal insulation for the exterior of HVAC systems or other spaces or surfaces where temperature control is required. POLYWOOL meets typical industry standards for core and tensile strength, which makes the product more resistant to damage during lamination and installation. The flexible and light weight features allow the insulation to conform easily around corners and curved surfaces and is readily cut in die presses or with a knife.

### SUSTAINABLE PRODUCT

PGF Insulation is committed to providing environmentally sustainable products. POLYWOOL is free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture/composition content, and represent no known threat to the environment. Made from nearly 80% recycled glass and locally sourced raw materials, POLYWOOL range of glass mineral wool is perfectly in tune with sustainability and environmental concerns. POLYWOOL is compliant with most green rating tool ODP Emissions credit requirements. Air quality is maintained with total Volatile Organic Compound (VOC) emissions below quantifiable levels.

### ADVANTAGES

**Optimal fibre diameter.** Optimal fibre diameter ranging from 4-5micron 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.

**Absorbs Disturbing Sound.** Exceptional sound-absorbing properties. POLYWOOL reduces the transmission of HVAC noises such as air turbulence, popping and cracking.

**Corrosiveness.** Chemically inert. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum due to its specifically inorganic and mineral composition. Tested in accordance with ASTM C665-12.

**Mould Growth.** Does not encourage growth of mould, fungus, bacteria or rodents. Tested in accordance with ASTM C1338-08.

**Water Vapor Absorption.** Absorbs less than 5% by weight. Tested in accordance with ASTM C1104.

**Odor Emission.** Does not emit any unpleasant odor. Tested in accordance with ASTM C1304.

**Alkalinity.** pH 9.

### FIRE PROPERTIES

Tested in accordance with :

- B.S. 476: Part 6 Fire propagation
- B.S. 476: Part 7 Surface spread of flame
- AS1530.3.1989
- ASTM E84

### OPERATING LIMITS

Maximum service temperature at 350°C. Tests based on ASTM C411.

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### THERMAL CONDUCTIVITY

Complies with ASTM C518 at 15°C mean temperature. Please refer to the below table on the thermal resistance values.

### ACOUSTICAL PERFORMANCE

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

### PRODUCTS AVAILABLE

| Type      | R-Value | Nominal Thickness (mm) | Nominal Length (m) | Nominal Width (mm) | Nominal Coverage per Pack (m <sup>2</sup> ) | Nominal Piece Weight (kg) |
|-----------|---------|------------------------|--------------------|--------------------|---|---------------------------|
| EWBL 0.75 | R0.80   | 25                     | 20                 | 1200               | 24  | 19.2                      |
| EWBL 1.50 | R1.60   | 50                     | 10                 | 1200               | 12  | 19.2                      |

### AVAILABLE FORM

Unfaced or Plain – designed for predictable thermal insulation performance with the added benefit of being an effective sound absorption material.

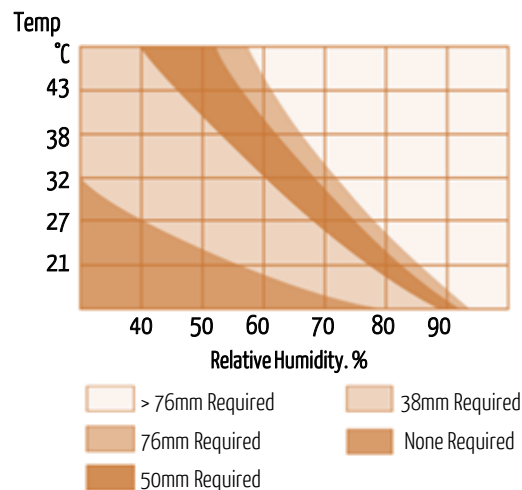
### SHORT FORM SPECIFICATION

All ducts are to be insulated on the external GI surface with POLYWOOL Glass Mineral Wool. All glass wool insulation shown on drawings or specified herein shall be POLYWOOL\_\_\_\_\_ (EWBL 0.80, EWBL 1.60) with thickness of \_\_\_\_\_mm (25mm, 50mm).

Thermal resistance “R-Value” of the insulation shall be R \_\_\_\_.

### CONDENSATION CONTROL

This chart is based on indoor conditions so far as wind and other factors are concerned. To determine thickness to prevent condensation, based on installed thickness at 75% of nominal (out-of-package) thickness and a duct internal air temperature of 13°C refer to the condensation control chart below.



### To use:

- 1) Select maximum relative humidity (%) on lower axis;
- 2) Read up vertically until that line intersects the maximum ambient air temperature;
- 3) Select the thickness indicated at the point of intersection.

**Note:** The chart is based on indoor conditions as far as wind and other factors are concerned.

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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 1<sup>st</sup> March 2017.

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