# PROTEUS PRO-THERM CELLULAR GLASS INVERTED

#### **PRODUCT DATASHEET**



v2 | MARCH 2025



### **PRODUCT DETAILS**

Product name Proteus Pro-Therm Cellular Glass Inverted

Insulation

Product type

#### **PRODUCT DESCRIPTION**

**Proteus Pro-Therm Cellular Glass Inverted** is an A1 non-combustible insulation, manufactured from specially graded recycled glass and natural raw materials (sand, dolomite, lime etc).

With a pre-applied inorganic coating on its topside (also A1 non-combustible), it serves as the top insulation layer in inverted roof applications.

Can be combined with **Proteus Pro-Therm Cellular Glass** if multiple insulation layers are required, where **Proteus Pro-Therm Cellular Glass Inverted** is always the top layer, installed with its coated side facing up.

It is inorganic, contains no ozone depleting repellents, flame resistant additives or binders, without VOC or other volatile substances.

## APPLICATION

**Proteus Pro-Therm Cellular Glass** is suitable for use in inverted roof build ups above the following waterproofing membranes:

- Cold Melt<sup>®</sup>
- Proteus Hot Melt<sup>®</sup>
- Pro-BW<sup>®</sup> Plus
- Pro-BW<sup>®</sup> LO

#### INSTALLATION

- Proteus Pro-Therm Cellular Glass Inverted is to be laid over the already laid waterproofing membrane
- The waterproofing membrane must be flat, clean and free from debris
- Special care should be given to waterproofing membrane during installation of **Proteus Pro-Therm Cellular Glass Inverted** to avoid any accidental damage
- Insulation can be cut to shape using a fine-toothed saw or panel saw. Ensure accurate trimming to achieve close-butting joints and continuity of insulation
- Start laying the Proteus Pro-Therm Cellular Glass Inverted boards from the point of access to the roof
- Boards should always be loose-laid break bonded, either with their long edges at right angles to the edge of, or diagonally across the roof, and with joints lightly butted. There should be no gaps at abutments
- If two or more layers of insulation are required, they should be horizontally offset relative to each other so that, as far as possible, the board joints in any two adjacent layers do not coincide with each other
- Once in place, insulation's surface should be protected to distribute the loads on top, during installation of subsequent layers
- Once laid, **Proteus Pro-Therm Low-K** membrane is then installed on top of the insulation

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### **TECHNICAL INFORMATION**

Characteristic	Value	Unit	Standard	
Density ±15%	95	kg/m³	EN 1602	
Reaction to fire	A1	-	EN 13501-1	
Point load	≤ 1.5	mm	EN 12430	
Compressive strength	≥ 400	kPa	EN 826	
Compressive creep	225	kPa	EN 1606	
Bending strength	≥ 400	kPa	EN 12089	
Tensile Strength	≥ 100	kPa	EN 1607	
Water absorption short term	≤ 0.5	kg/m²	EN 1609	
Water vapour transmission	∞		EN 12086	
Water vapour resistance	∞	μ	EN 10456	
Specific heat	1000	J/(kg⋅K)	EN 10456	
Hygroscopicity	zero	-	EN 12571	
Capillarity	zero	-	EN 1015-18	
Thermal expansion coefficient	9x10-₀	K-1	EN 13471	

## SIZE, FINISH AND COLOUR

Length <sup>mm</sup>	Width <sup>mm</sup>	Thickness <sup>mm</sup>	<b>Thermal conductivity</b> W/m·K	Thermal Resistance m <sup>2.</sup> K/W	Colour	
600	450	100	0.038	-	Dark Grey	
600	450	140	0.038	-	Dark Grey	
600	450	200	0.038		Dark Grey	
Each project is designed individually to suit specific needs by our in-house design team Tapered schemes are also available						

### SHELF LIFE AND HANDLING

Pallets should be stored undercover in a dry area. Always use relevant safe manual handling techniques relevant to a products size and weight.

Website

### MATERIAL

Recycled glass and natural raw materials (sand, dolomite, lime, etc.)

## PACKAGING

Boards are supplied on pallets wrapped in polythene.

## LIMITATIONS OF USE

For professional use only.

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#### **GUARANTEES**

Defects arising from lack of maintenance or abnormal use may fall outside of the cover of the Proteus Waterproofing guarantee.

### GUIDELINES AND STANDARDS

It is the responsibility of the Contractor to thoroughly familiarise themselves with all relevant Codes of Practice and Building Regulations to the works or referred in the specification.

Proteus Waterproofing take no responsibility for misinterpretation or lack of knowledge for third parties.

The works shall be carried out in accordance with the requirements of:

- **BS 6229** Flat roofs with continuously supported flexible waterproof coverings Code of practice
- BS 8217 Reinforced bitumen membranes for roofing Code of practice
- BS 8000-0 Workmanship on construction sites Introduction and general principles
- **BS 8000-4** Workmanship on building sites Code of practice for waterproofing
- LRWA Design Guide for Specifiers
- S2T Safe to Torch
- GRO Code of Best Practice

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