



PRODUCT DETAILS

Product name **Proteus Pro-Therm Cellular Glass**

Product type Insulation

PRODUCT DESCRIPTION

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

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 on the following roof substrates:

- Metal
- Concrete
- Timber

Proteus Pro-Therm Cellular Glass is suitable for use with the following waterproofing membranes:

- Cold Melt®
- Proteus Pro-Cold®
- Pro-BW® Plus
- Pro-BW® LO

Proteus Pro-Therm Cellular Glass is suitable for use in warm roof applications where non-combustible materials are required with a high load rating.

INSTALLATION

- Can be cut to shape using a fine-toothed saw or panel saw
- Insulation panels should be laid in a staggered pattern where practical, with joints lightly butted. There should be no gaps at abutments
- Can be mechanically fixed or adhered using **Pro-Bond Foaming**
- In a warm roof build up, **Pro-Prime® SA** and **Pro-Vapour Control/Carrier Membrane SA** should be installed above the insulation prior to applying the waterproofing membrane

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Density ±15%	95	kg/m ³	EN 1602
Reaction to fire	A1	-	EN 13501-1
Point load	≤ 1.5	mm	EN 12430
Compressive strength	≥ 500	kPa	EN 826
Compressive creep	225	kPa	EN 1606

Characteristic	Value	Unit	Standard
Bending strength	≥ 400	kPa	EN 12089
Tensile strength	≥ 150	kPa	EN 1607
Water vapour resistance	∞	μ	EN 10456
Hygroscopicity	zero	-	EN 12571
Capillarity	zero	-	EN 1015-18
Thermal expansion coefficient	$9 \cdot 10^{-6}$	K^{-1}	EN 13471
Specific heat	1000	J/(kg·K)	EN 10456

SIZE, FINISH AND COLOUR

Length mm	Width mm	Thickness mm	Thermal conductivity W/m·K	Thermal Resistance m ² ·K/W	Colour
600	450	50	0.036	1.35	Dark Grey
600	450	60	0.036	2.65	Dark Grey
600	450	70	0.036	1.90	Dark Grey
600	450	80	0.036	2.20	Dark Grey
600	450	90	0.036	2.50	Dark Grey
600	450	100	0.036	2.75	Dark Grey
600	450	110	0.036	3.05	Dark Grey
600	450	120	0.036	3.30	Dark Grey
600	450	130	0.036	3.60	Dark Grey
600	450	140	0.036	3.85	Dark Grey
600	450	150	0.036	4.15	Dark Grey
600	450	160	0.036	4.40	Dark Grey
600	450	170	0.036	4.70	Dark Grey
600	450	180	0.036	5.00	Dark Grey
600	450	190	0.036	5.25	Dark Grey
600	450	200	0.036	5.55	Dark Grey
1200	600	80	0.036	2.20	Dark Grey
1200	600	100	0.036	2.75	Dark Grey
1200	600	120	0.036	3.30	Dark Grey
1200	600	140	0.036	3.85	Dark Grey
1200	600	150	0.036	4.15	Dark Grey
1200	600	160	0.036	4.40	Dark Grey
1200	600	180	0.036	5.00	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.

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.

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](#)