



PRODUCT DETAILS

Product name	Proteus Pro-Therm Cellular Glass
Product type	Cellular glass 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.

Proteus Pro-Therm Cellular Glass is also available for tapered schemes, please contact **Proteus Waterproofing** technical team for specific design requirements.

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 us 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	100	kg/m ³	EN 1602
Thermal conductivity	0.036	W/(m·K)	EN ISO 10456
Reaction to fire	A1	-	EN 13501-1
Point load	≤ 1.5	mm	EN 12430

Characteristic	Value	Unit	Standard
Compressive strength	≥ 500	kPa	EN 826-A
Bending strength	≥ 400	kPa	EN 12089
Tensile strength	≥ 150	kPa	EN 1607
Compressive creep	225	kPa	EN 1606
Service temperature limits	-265 / +430	°C	-
Hygroscopicity	zero	-	-
Capillarity	zero	-	-
Melting point	> 1000	°C	DIN 4102-17
Thermal expansion coefficient	9·10 ⁻⁶	K ⁻¹	EN ISO 13471
Specific heat	1000	J/(kg·K)	EN ISO 10456
Colour	Dark Grey	-	-

SIZE, FINISH AND COLOUR

Product Code	Length mm	Width mm	Thickness mm	Unit weight kg	Area weight kg/m ²	Units per pack
INFT3S050	600	450	50	1.4	5	10
INFT3S060	600	450	60	1.6	6	8
INFT3S070	600	450	70	1.9	7	7
INFT3S080	600	450	80	2.2	8	6
INFT3S090	600	450	90	2.4	9	6
INFT3S100	600	450	100	2.7	10	5
INFT3S110	600	450	110	3.0	11	5
INFT3S120	600	450	120	3.2	12	4
INFT3S130	600	450	130	3.5	13	4
INFT3S140	600	450	140	3.8	14	4
INFT3S150	600	450	150	4.1	15	3
INFT3S160	600	450	160	4.3	16	3
INFT3S170	600	450	170	4.6	17	3
INFT3S180	600	450	180	4.9	18	3
INFT3S190	600	450	190	5.1	19	3
INFT3S200	600	450	200	5.4	20	3

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](#)