Proteus Pro-Therm
Mineral Wool

Product Datasheet | v1.0 | March 2024

Product Details

Product name	**Proteus Pro-Therm Mineral Wool**
Product type	Non-combustible insulation

Product Description

Proteus Pro-Therm Mineral Wool is a non-combustible stone wool insulation, manufactured with an integral mineral coated fibre fleece for adhered membranes, creating a strong bond between membrane and insulation whilst limiting the amount of adhesive required.

The **Proteus Pro-Therm Mineral Wool** achieves a reaction to fire classification of **A2-s1,d0** (BS EN 13501-1).

Application

The **Proteus Pro-Therm Mineral Wool** is suitable for use with the following waterproofing membranes:

- Proteus Cold Melt®
- Proteus Pro-BW® Plus
- Proteus Pro-BW® LO
- Proteus Pro-Cold®
- Proteus Pro-Felt® Endura
- Proteus Pro-Felt® Ultima Plus

Proteus Pro-Therm Mineral Wool is suitable for use with the following roofing systems:

- Fully and partially bonded
- Mechanically fastened systems
- EPDM membrane systems
- Torch applied bitumen based systems
- Liquid applied systems

Proteus Pro-Therm Mineral Wool can be used in hybrid insulation schemes for Building Regulations Part B compliance.

Installation

Installation Method

- The boards should be cut to shape using a fine-toothed saw or panel saw
- For all application types, the boards should be laid in a staggered pattern, tightly butted with the mineral fleece facing upwards. This requirement also applies to joints between each layer
- Appropriate stop battens should be installed to protect the boards open edges during installation
- At the end of each work section, day joints should be created to protect the unfinished edges and prevent any potential damage by sealing them
- For dual layer systems, the underlay boards are applied first, onto the vapour control layer. Fleece backed boards are then laid on top with the mineral fleece facing upwards
- Apply the new waterproofing membrane directly to the **Proteus Pro-Therm Mineral Wool**

Torch applied bituminous membranes

- Due to its exceptional heat resistance, the **Proteus Pro-Therm Mineral Wool** is the ideal for torch and hot bitumen applications
- It can be used with fully bonded, torch applied multi-layer bitumen systems
- When applying the bitumen membrane always torch with minimum heat
- Torch the roll of waterproofing felt, always using appropriate flame/edge guards
- Torch applied bituminous membranes should always be installed in accordance with the membrane manufacturers guidelines

Liquid membranes

- The **Proteus Pro-Therm Mineral Wool** is designed for use with a number of liquid applied membranes when applied with **Proteus Pro-Vapour Control/Carrier Membrane SA**

TECHNICAL INFORMATION

Characteristic	Standard	Unit	Value
Product standard	BS EN 13162	-	-
Reaction to Fire	BS EN 13501-1	-	A2-s1,d0
Thermal Conductivity	-	W/mK	0.039
Specific Heat Capacity	-	kJ/kgK	0.84
Water Vapour Resistance	-	MNs/g	5.9
Compressive Strength	-	kPa	80
Density	-	kg/m^3	160

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

Stone wool with mineral-coated white fleece.

PACKAGING

Boards are supplied on pallets wrapped in polythene.

GUARANTEES

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

SIZE, FINISH AND COLOUR

Product Code	Product Description	Thickness (mm)	Width	Length
INROC105	Proteus Pro-Therm Mineral Wool	105	1000	1200
INROC115	Proteus Pro-Therm Mineral Wool	115	1000	1200
INROC150	Proteus Pro-Therm Mineral Wool	150	1000	1200
INROC060	Proteus Pro-Therm Mineral Wool	60	1000	1200
INROC085	Proteus Pro-Therm Mineral Wool	85	1000	1200
INROC030	Proteus Pro-Therm Mineral Wool Recovery Board	30	1000	1200
INRO100115	Proteus Pro-Therm Mineral Wool Tapered	100- - 115	1000	1200
INRO100120	Proteus Pro-Therm Mineral Wool Tapered	100- - 120	1000	1200
INRO115130	Proteus Pro-Therm Mineral Wool Tapered	115- - 130	1000	1200
INRO120140	Proteus Pro-Therm Mineral Wool Tapered	120- - 140	1000	1200
INRO130145	Proteus Pro-Therm Mineral Wool Tapered	130- - 145	1000	1200
INRO140160	Proteus Pro-Therm Mineral Wool Tapered	140- - 160	1000	1200
INRO145160	Proteus Pro-Therm Mineral Wool Tapered	145- - 160	1000	1200
INRO040055	Proteus Pro-Therm Mineral Wool Tapered	40- - 55	1000	1200
INRO040060	Proteus Pro-Therm Mineral Wool Tapered	40- - 60	1000	1200
INRO055070	Proteus Pro-Therm Mineral Wool Tapered	55- - 70	1000	1200
INRO060080	Proteus Pro-Therm Mineral Wool Tapered	60- - 80	1000	1200
INRO070085	Proteus Pro-Therm Mineral Wool Tapered	70- - 85	1000	1200
INRO080100	Proteus Pro-Therm Mineral Wool Tapered	80- - 100	1000	1200
INRO085100	Proteus Pro-Therm Mineral Wool Tapered	85- - 100	1000	1200
INROC120U	Proteus Pro-Therm Mineral Wool Unfaced	120	1000	1200
INROC150U	Proteus Pro-Therm Mineral Wool Unfaced	150	1000	1200
INROC170U	Proteus Pro-Therm Mineral Wool Unfaced	170	1000	1200

DISPOSAL

Disposal of **Proteus Pro-Therm Mineral Wool** should be done in a manner that is compliant with UK regulations and best practices. This includes ensuring that the material is properly classified and described, that it is not mixed with hazardous waste, and that it is disposed of in a manner that is environmentally responsible.

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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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