



## PRODUCT DETAILS

Product name **Proteus Pro-Therm Mineral Wool**

Product type 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:

- Cold Melt®
- Pro-BW® Plus
- 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 compliance with Building Regulations Part B.

## 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

# PROTEUS PRO-THERM MINERAL WOOL

## PRODUCT DATASHEET

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- 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 **Pro-Vapour Control/Carrier Membrane SA**

## TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Reaction to fire	A2-s1,d0	-	BS EN 13501-1
Thermal conductivity	0.039	W/m.K	-
Specific heat capacity	0.84	kJ/kgK	-
Water vapour resistance	5.9	MNs/g	-
Compressive strength	10% 70	kPa	EN 826
Density	±15% 160	kg/m <sup>3</sup>	-

## SIZE, FINISH AND COLOUR

Thickness mm	Length mm	Width mm
60 85 105 115 150 185	1200	1000

Each project is designed individually to suit specific needs by our in-house design team  
Other sizes and tapered schemes are also available

## 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 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.

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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](#)