

PROTEUS PRO-THERM THERMAL PROTECTION BOARD



PRODUCT DATASHEET

v2 | MARCH 2025



PRODUCT DETAILS

Product name **Proteus Pro-Therm Thermal Protection Board**

Product type Thermal protection board

PRODUCT DESCRIPTION

Proteus Pro-Therm Thermal Protection Board is constructed using 50mm **Proteus Pro-Therm PIR** insulation slab, factory bonded to a **6mm** external grade high-impact fibre cement facing board.

It enhances energy efficiency in flat roof designs, by insulating parapet walls and upstands.

It effectively blocks heat loss and minimises thermal bridging to the building's interior. Built for durability, this solution features a strong, weather-resistant surface that can be customised with decorative finishes as needed.

APPLICATION

Proteus Pro-Therm Thermal Protection Board is used below the following Proteus waterproofing membranes in a warm roof build up on flat roofs:

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

Proteus Pro-Therm Thermal Protection Board can be used on the following substrates:

- Timber
- Concrete

INSTALLATION

Installation will vary depending on the waterproofing system being installed.

- **Proteus Pro-Therm Thermal Protection Board** should be cut using a Tungsten Carbide Tipped (TCT) saw blade
- Care should be taken to ensure that any cut edges are laid to the perimeter of the roof
- All internal joints should incorporate the biscuit joint edge detail to ensure there are no breaks in the insulation layer
- Starting with the longest side of the roof, the panels should be laid out in a brick-bond fashion using half or quarter panels where necessary to minimise any cutting therefore speeding up the installation process

TECHNICAL INFORMATION

Characteristics		Value	Unit
Thermal conductivity	facing board	0.30	W/m·K
Thermal conductivity	insulation slab	0.026	W/m·K

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SIZE, FINISH AND COLOUR

Product Code	Length mm	Width mm	Thickness mm	Colour
INTPS056	1200	600	56	Grey
INTPM056	2400	600	56	
INTPL056	1200	2400	56	
Also available in bespoke sizes and thicknesses upon request				

SHELF LIFE AND HANDLING

Products should be stored away from the elements until ready for installation.

MATERIAL

Insulation slab Fibre-free rigid thermoset polyisocyanurate (PIR)

Cementitious facing Fibre cement

PACKAGING

Products are supplied on wooden pallets with edge protection and a shower proof hood .

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](#)

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