



## PRODUCT DETAILS

Product name **Proteus Pro-Therm HP PIR Plus**

Product type PIR roof insulation

## PRODUCT DESCRIPTION

**Proteus Pro-Therm HP PIR Plus** insulation is used on its own, or with tapered or flat board insulation, as a premium performance board for use on new and existing roofs with timber or concrete decks.

Both sides of **Proteus Pro-Therm HP PIR Plus** are covered with an aluminium foil which is resistant to vapour diffusion. It is suitable for glued or mechanically fixed applications.

## APPLICATION

**Proteus Pro-Therm HP PIR Plus** can only be used in a warm roof build up on flat or tapered roof schemes. It can be used in conjunction with the following Proteus waterproofing systems:

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

## INSTALLATION

- **Proteus Pro-Therm HP PIR Plus** must be laid over a **Pro-Vapour Control/Carrier Membrane SA** or **Proteus Pro-Felt AVCL**, please contact Proteus for specific design requirements
- **Proteus Pro-Therm HP PIR Plus** should be laid in a staggered pattern, with joints lightly butted. There should be no gaps at abutments
- **Proteus Pro-Therm HP PIR Plus** can be bonded to the vapour control layer using **Pro-Bond Foaming** (in windy areas mechanical fixings are also advised)
- A second layer of **Proteus Pro-Felt AVCL** or **Pro-Vapour Control/Carrier Membrane SA** is then installed on top of **Proteus Pro-Therm HP PIR Plus**, before the waterproofing membrane

## TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Density ±15%	30	kg/m <sup>3</sup>	EN 1602
Thermal conductivity	0.018	W/(m·K)	EN 12667
Thermal capacity	0.39	Wh/(kg·K)	-
Compressive strength 10%	≥120	kPa	EN 826
Compressive creep 50 years, <2%	25	kPa	EN 1606
Reaction to fire	E	-	EN 13501-1
Resistance to vapour diffusion	watertight	-	EN 12086

## SIZE, FINISH AND COLOUR

Length mm	Width (mm)	Thickness (minimum) (mm)	Thickness (maximum) (mm)
1200	600	20	160

Each project requiring this product is designed individually to suit specific needs by our in-house design team  
Please contact Proteus Waterproofing for further information

## SHELF LIFE AND HANDLING

- **Proteus Pro-Therm HP PIR Plus** should be stored in a dry covered area
- Storage in excess of **12 months** should be avoided
- Protect the product from extremely low temperatures and avoid exposure to direct sunlight

## MATERIAL

Polyisocyanurate core with aluminium foil facing.

## PACKAGING

Stretch wrapped (PE film) on pallets.

## 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](#)