



PRODUCT DETAILS

Product name	Proteus Hot Melt® Force
Product type	Glass fibre reinforcing mesh

PRODUCT DESCRIPTION

Proteus Hot Melt® Force is an open weave glass fibre reinforcing mesh, used as the integral reinforcement element of the **Proteus Hot Melt® System**.

APPLICATION

Proteus Hot Melt® Force is a component of the **Proteus Hot Melt®** system and suitable for the following roof types:

- Inverted flat roofs
- Zero-fall inverted flat roofs
- Warm roofs
- Green roofs
- Blue roofs
- Terraces
- Podiums
- Balconies
- Roof gardens

Proteus Hot Melt® system can be applied to the following substrates:

- Concrete
- Timber

Note: In all buried/inverted systems prior to the waterproofing membrane being covered, an electronic leak detection test should be carried out by an independent **Roofing and Waterproofing Test Association (RAWTA)** accredited specialist.

INSTALLATION

Surface Preparation

- Repair substrate defects such as holes, voids, tears, and cracks, using suitable materials
- All loose and friable material must be removed by mechanical means where necessary
- Oil, dust, and debris should be removed by brush and vacuum
- Any defective or decayed areas of the substrate or insulation should be cut out, repaired, and reinstated to provide a solid base
- Surfaces should be sound, clean, dry, free from defects, visible dampness, fungal growth, and corrosion
- Substrates should be primed with **Pro-Prime® Bitumen** at a nominal **0.2 L/m²** coverage rate (dependent on the substrate porosity) and allowed to dry for between **1 – 3 hours** until completely dry, prior to the installation of the waterproofing membrane
- For substrates with high levels of residual moisture, **Cold Melt® DPM Primer** can be used. Please refer to the **Cold Melt® DPM Primer** Product Datasheet for additional details
- Adhesion tests **are required** to confirm substrate suitability before installation

Installation

- **Proteus Hot Melt® Compound** blocks are heated in an air jacketed boiler (or a thermostatically controlled bitumen boiler) to a temperature of between **170°C - 180°C**. Overheating and prolonged heating should be avoided

- **Proteus Hot Melt® Force** is unrolled over the primed substrate, with minimum overlaps of **75 mm**
- The heated **Proteus Hot Melt® Compound** is then poured through **Proteus Hot Melt® Force** at an application rate of **3 kg/m²**, to a minimum depth of **3 mm**
- Whilst still hot, roll the **Proteus Hot Melt® Capsheet** or **Proteus Hot Melt® Anti-Root Capsheet** onto the **Proteus Hot Melt® Compound** to complete the waterproofing system
- Excess compound should extrude from the edges of the capsheet by a minimum of **50 mm**
- Capsheet side overlaps minimum **100 mm**
- Capsheet end overlaps minimum **150 mm** and offset by a minimum of **300 mm**
- Capsheet must be fully bonded to the hot melt compound
- This pour and roll method is detailed in **BS 8217**

CERTIFICATION

Type	Name	Reference
BBA	Proteus Hot Melt®	22/6186

TECHNICAL INFORMATION

Characteristic	Value	Unit
Weight	58	g/m²
Thickness	0.3	mm
Tensile strength L/T	750/750	N/50mm

SIZE, FINISH AND COLOUR

Product Code	Length m	Width m	Weight kg	Colour	Finish
ACPFHM30	30	1	1.75	White	glass fibre mesh

SHELF LIFE AND HANDLING

- **Proteus Hot Melt® Force** should be stored internally or under a protective cover to provide protection from direct rain and physical damage
- Always use relevant safe manual handling techniques relevant to a products size and weight

MATERIAL

Open weave glass fibre mesh.

PACKAGING

Individually wrapped rolls in a clear plastic bag.

LIMITATIONS OF USE

For professional use only.

CHEMICAL PROPERTIES, SAFETY GUIDANCE AND DISPOSAL

Please refer to **Proteus Hot Melt® Force** [Material Safety Datasheet](#).

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](#)