



PRODUCT DETAILS

Product name **Proteus Pro-Felt® T/O VCL Film**
Product type Torch-on vapour control layer

PRODUCT DESCRIPTION

Proteus Pro-Felt® T/O VCL Film is a prefabricated waterproofing membrane composed of distilled bitumen and elastomeric polymers (SBS) and reinforced with a rot proof fibre glass and aluminium film, which creates a barrier to the transmission of vapour.

APPLICATION

Proteus Pro-Felt® T/O VCL Film is appropriate for use in areas where high levels of vapour are expected.

INSTALLATION

Surface preparation

- All surfaces to receive **Proteus Pro-Felt® T/O VCL Film** must be clean, dry, and free of dust or other contaminants which may affect adhesion
- Remove all sharp protrusions such as fixings, chippings, etc
- Prepare cementitious substrates with **Pro-Prime® Bitumen** as per the individual datasheet

Installation method

- Install by torch application a **250mm** strip of membrane reinforced with polyester along all vertical upstands
- Ensure the underside is heated to a sufficient level and is soundly adhered to the substrate
- To have all overlaps with the slope, position the membrane always starting from the lowest point
- Stagger the membrane sheets, avoid creating any overlaps against the slope or drains
- All lap joints must be completely sealed, with a continuous **5mm** bitumen bead extruding from all laps
- Side laps should be a minimum of **80mm**
- End laps should be a minimum of **100mm**
- Upstand laps should be a minimum of **100mm**
- On vertical surfaces greater than **2m** or on very sloped substrates, apply suitable mechanical fixings to the head laps ensuring they are then sealed

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Weight	3	kg/m²	EN 1849-1
Thickness	2.5	mm	-
Visible defects	No	-	EN 1850-1
Straightness	< 20	mm/10m	EN 1848-1
Cold flexibility	-20	°C	EN 1109

Characteristic	Value	Unit	Standard
Flow resistance	+100	°C	EN 1110
Maximum tensile strength (L/T)	450/350	N/50 mm	EN 12311-1
Elongation (L/T)	2/2	%	EN 12311-1
Resistance to tearing (L/T)	100/100	N	EN 12310-1
Resistance to static loading	5	kg	EN 12730
Resistance to impact	500	mm	EN 12691
Resistance to Fire	F	-	EN 13501-1
Watertightness	60	kPa	EN 1928
Watertightness after artificial ageing	60	kPa	EN 1296
Water vapour permeability	1,500,000	μ	EN 1931

SIZE, FINISH AND COLOUR

Product Code	Length (m)	Width (m)	Weight (kg)	Colour	Finish
FVCULFT010	10	1	30	Black	PE Film

SHELF LIFE AND HANDLING

- The rolls are to be stored in an upright position, indoors in a dry and ventilated area, away from heat sources
- Avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations
- It is recommended to store the product at temperatures above **0°C**
- The rolls should be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls
- The rolls that are temporarily stored on the roof before application, should be kept elevated by being left on their own pallets and shall be covered and protected from the weather

MATERIAL

Elastomeric polymer bitumen membrane (SBS).

PACKAGING

Felt rolls wrapped with paper seal.

LIMITATIONS OF USE

- For professional use only
- The Installation must be done at temperatures higher than **5°C**
- The Installation must be interrupted in adverse weather conditions (high humidity, rain, etc.)

CHEMICAL PROPERTIES, SAFETY GUIDANCE AND DISPOSAL

Please refer to **Proteus Pro-Felt® T/O VCL Film** [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](#)