



## PRODUCT DETAILS

Product name	<b>Proteus Pro-Felt® Extra Plus Capsheet</b>
Product type	Waterproofing membrane

## PRODUCT DESCRIPTION

**Proteus Pro-Felt® Extra Plus Capsheet** is a prefabricated waterproofing membrane made of distilled bitumen and elastomeric polymers (SBS). It contains a non-woven single strand composite polyester reinforcement.

**Proteus Pro-Felt® Extra Plus Capsheet** excels as a direct waterproofing overlay to existing substrates, or as a system element of the robust Proteus built-up roof system, incorporating **Proteus Pro-Therm** insulation.

## APPLICATION

**Proteus Pro-Felt® Extra Plus Capsheet** is suitable for use on the following substrates:

- Concrete
- Asphalt
- Timber\*
- Felt

\* when used with Proteus Pro-Felt® SA Underlay

**Proteus Pro-Felt® Extra Plus Capsheet** is suitable for the following areas:

- Tapered insulation schemes
- Low sloped roofs

## INSTALLATION

### Substrate preparation

- The application surface must not have any depressions to avoid the risk of ponding water, the slope must be at least **1.5%** on concrete decks and **3%** for steel or wooden ones, this to guarantee a proper rainwater run off
- 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
- Adhesion tests may be required to confirm substrate suitability before installation
- All details should be primed prior to installation with **Pro-Prime® Bitumen**

# PROTEUS PRO-FELT® EXTRA PLUS CAPSHEET

## Installation method

- **Proteus Pro-Felt® Extra Plus Capsheet** is installed with a roofing torch, onto a **Proteus Pro-Felt® Underlay**
- All lap joints must be overlapped and completely sealed as per the following table

Lap Dimensions mm	
Side Laps	80
End Laps	100
Upstands	100

Overlaps should be heat welded, ensuring a continuous 5mm bitumen bead extruding from all laps

- Lay all overlaps with the slope
- Position the membrane sheets staggered, and starting from the lowest point, avoiding creating any overlaps against the slope
- Apply by torch application a **250mm** strip of membrane along all vertical up stands
- Cut the corners of the membrane sheet at a **45°** angle (**10x10 cm**)
- Apply the vertical membrane making sure that it overlaps the horizontal one by at least **100mm**, heating it with a gas torch and squeezing it with a trowel until a bead of compound appears from underneath
- The height of the verticals must be a minimum **150mm** from the finished surface
- The second layer of membrane will be staggered in the same direction, approximately **250mm** from the lap of the previous sheet
- Bond the **Proteus Pro-Felt® Extra Plus Capsheet** with a propane gas torch to the underlay. It is necessary to heat the entire surface, except for the side & head laps
- Use a suitable roller to apply pressure over the surface of the membrane to ensure adequate adhesion
- On vertical surfaces greater than **2m** or on very sloped substrates, apply suitable mechanical fixings to the head laps ensuring they are then sealed

Note: Should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to a heated storage area and substituted with new rolls

## TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Thickness	4	mm	-
Mass per unit area	5	kg/m <sup>2</sup>	EN 1849-1
Straightness	< 20	mm/10 m	EN 1848-1
Cold flexibility	-20	°C	EN 1109
Flow resistance	100	°C	EN 1110
Joint strength	500/300	N/50 mm	EN 12317-1
Maximum tensile strength	600/400	N/50 mm	EN 12311-1
Elongation	35/35	%	EN 12311-1
Resistance to tearing	150/150	N	EN 12310-1
Resistance to static loading	15	kg	EN 12730

Characteristic	Value	Unit	Standard
Resistance to impact	1000	mm	EN 12691
Dimensional stability	-0.3	%	EN 1107-1
Reaction to fire	F	-	EN 13501-1
Watertightness	60	kPa	EN 1928
Watertightness after artificial ageing	60	kPa	EN 1296
Loss mineral	30	%	EN 12039

## SIZE, FINISH AND COLOUR

Product Code	Length m	Width m	Weight kg	Colour	Upper Finish
FXSCSM5008	8	1	40	Black	Mineral

## 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 stacking rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation
- It is recommended to store the product at temperatures above **0°C**
- During installation the rolls should be kept in a warm or heated storage area
- The rolls that are temporarily stored on the roof before installation should be kept elevated by being left on their own pallets and should be covered and protected from the weather
- The materials on stock should be rotated following a first in first out rotation
- Always use relevant safe manual handling techniques relevant to a products size and weight

## MATERIAL

Elastomeric polymer bitumen membrane (SBS).

## PACKAGING

Felt rolls wrapped with paper seal.

## LIMITATIONS OF USE

For professional use only.

## CHEMICAL PROPERTIES, SAFETY GUIDANCE AND DISPOSAL

Please refer to **Proteus Pro-Felt® Extra Plus Capsheet** [Safety Data Sheet](#).

## 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](#)