



PRODUCT DETAILS

Product name **Proteus Pro-Felt® Endura SA Capsheet**

Product type Self-adhesive capsheet

PRODUCT DESCRIPTION

Proteus Pro-Felt® Endura SA Capsheet is a cold-applied, self-adhesive bituminous capsheet which is saturated and coated with high quality SBS modified bitumen.

The upper layer of the membrane is protected with slate mineral and the bottom layer is coated with self-adhesive compound, covered with removable film.

APPLICATION

Proteus Pro-Felt® Endura SA Capsheet is suitable for use on the following substrates:

- Timber
- Concrete
- Asphalt
- New roofs
- Overlays

Note: Some surfaces may require priming or sacrificial layers.

INSTALLATION

Preparation

- To install the **Proteus Pro-Felt® Endura SA Capsheet** correctly, ensure that the surface is dry, free of oil, fat, dust, and other impurities
- All substrates, including thermal insulation and detailing areas, should be primed with **Pro-Prime® SA**
- We recommend self-adhesive membranes to be rolled into position and allowed to settle prior to their application
- The membrane should always be installed with a minimum 80mm joint overlap
- Ambient and surface temperatures during the application should be at least +5°C

Type	Measurement mm
Side Lap	80
End Lap	100
Upstand/Detail Lap	100

All laps are to be heat welded with a suitable hot air gun or flame torch (dependant on Safe2Torch)

Installing the membrane

- The membrane is applied by pulling off the removeable film while simultaneously rolling out the sheet.
- Any overlapping membrane at a t-joint connection must have a diagonal cut over the width of the overlap. The diagonal sheet edge must be cut off with a knife at approximately **45°**
- During the application of **Proteus Pro-Felt® Endura SA Capsheet** we recommend using a weighted roll bar or tube to help provide a uniform, strong bond

- After application, the installed membrane should be rolled again to remove any trapped air and further strengthen the bond with the substrate

Safe-seal lap methodology

- The product’s **80mm** wide side selvedge consists of two key elements
 - The first **40mm** of selvedge (the inner element) features a self-adhesive release film which, once removed, enables the adjacent membrane to be securely bonded without the need for heat – only a pressure roller is required
 - The outer **40mm** of the selvedge is then bonded in a traditional manner using either hot air or naked flame, depending on the type of system being installed
- This ‘safe seal’ lap technology not only dramatically reduces the risk of any naked flame or heat penetrating through to a potentially combustible substrate (e.g. insulation), but it also allows for more efficient installation as only half of the selvedge needs to be manually welded using a hot air gun or torch
- Any overlaps on the mineral chippings must be sealed with a gun or torch (>3000W). All joint overlaps should be unrolled with a draw roll
- During installation it is important to ensure that a visible bead of bitumen exudes from all side and end laps

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Straightness	< 20	mm/10m	EN 1848-1
Mass per unit area	6	kg/m²	-
Thickness	4.2	mm	EN 1849-1
Watertightness @ 200 kPa	passed	-	EN 1928-B
Maximum tensile force	1400/900	N	EN 12311-1
Elongation	40/45	%	EN 12311-1
Dimensional stability	0.18	%	EN 1107-1
Flexibility at low temperatures	≤ -25	°C	EN 1109
Flow resistance at elevated temperatures	≥ 100	°C	EN 12311-1
Reaction to fire	E	-	EN 13501-1

SIZE, FINISH AND COLOUR

Product Code	Length m	Width m	Weight kg	Colour	Finish
FTECSMSA07	7.5	1	45	Anthracite	Mineral

STORAGE AND HANDLING

The performance of self-adhesive membranes can be compromised if they are stored incorrectly.

Proteus Pro-Felt® Endura SA Capsheet should be stored upright in a cool, dry place and protected from direct sunlight.

It is recommended to store the product at temperatures above **0°C**.

Avoid the stacking of rolls and pallets for storage or transport as this may cause possible deformations which may compromise a perfect installation.

The product should also be installed within three months of delivery, otherwise the surface must be primed with a suitable primer (please contact Proteus for further details).

MATERIAL

Reinforcement	Polyester/glass composite (280 g/m ²)
Compound	Self-adhesive elastomeric modified bitumen
Upper finish	Mineral/slate
Lower finish	Release film

In addition, **Proteus Pro-Felt® Endura SA Capsheet** incorporates a special graphite additive within the membrane to provide enhanced fire performance properties.

PACKAGING

Proteus Waterproofing felt label tape.

LIMITATIONS OF USE

For professional use only.

CHEMICAL PROPERTIES, SAFETY GUIDANCE AND DISPOSAL

Please refer to **Proteus Pro-Felt® Endura SA 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](#)