



PRODUCT DETAILS

Product name	Pro-Force 450
Product type	Reinforcement matting

PRODUCT DESCRIPTION

Pro-Force 450 is a e-glass matting bound with an emulsion binder that is used to provide reinforcement within the within the **Pro-BW® LO** and **Pro-BW® Plus** systems.

APPLICATION

Pro-Force 450 is suitable for use on the following substrates within a **Pro-BW® LO** or **Pro-BW® Plus** system:

- Concrete
- Plywood
- Asphalt
- Bituminous felt
- Single ply membranes

Pro-Force 450 is suitable for use on the following areas:

- Walkways and balconies
- Protected built-up roof
- Inverted built-up roof
- Warm built-up roof
- Warm deck
- Cold deck

Note: Some surfaces may require priming or sacrificial layers.

A wet electronic leak test is required for all inverted/buried systems prior to the waterproofing membrane being covered.

INSTALLATION

Installation Method

- Start the installation with details and verticals, followed by the field areas
- Carefully measure the roof area and assess how many strips of mat are needed
- Carefully remove the mat from the packaging and lay on a clean dry surface, the same way up as it is rolled out
- Roll out the required length, where possible always working with the fall of the roof
- Cut with a straight edge and a very sharp knife, taking care to protect the roof deck below
- Roll the cut piece back up and store until all lengths required have been cut before mixing the resin
- On the prepared and primed surface, embed **Pro-Force 450** into the first coat of Proteus **Pro-BW® LO** or **Pro-BW® Plus**, allowing **50mm** for side and end laps
- The matting has one straight cut edge and one feathered edge. Overlap a feathered edge over a straight edge
- Apply extra resin to ensure a closed, pinhole free surface where required
- Allow to cure before applying a second coat of **Pro-BW® LO** or **Pro-BW® Plus** over the whole of the reinforced base coat

CERTIFICATION

Type	Name	Reference
BBA	Pro-BW Plus®	18/5574
EPD	Pro-BW Plus®	S-P-07416

TECHNICAL INFORMATION

Characteristic	Value	Unit
Weight Tolerance	± 7.5	%
Moisture Limit	< 20	%
Size Content	4.4 (1 ± 31)	%
Breakage	> 140	-

SIZE, FINISH AND COLOUR

Product Code	Length (m)	Width (m)	Weight (g/m ²)	Colour
ACPF45020	20	1	450	White
ACPF45024E	80	0.3		
ACPF45080E	80	1		

SHELF LIFE AND HANDLING

- Store in a cool dry place between 15°C to 35°C
- Before use, inspect the mat to ensure there are no damaged, defective, or wet areas present

MATERIAL

E-glass matting bound with an emulsion binder.

PACKAGING

Polythene bag.

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](#)