



PRODUCT DETAILS

Product name **Pro-Living® Filter Fleece**

Product type Filtration Layer

PRODUCT DESCRIPTION

Pro-Living® Filter Fleece is a high tenacity, non-woven virgin fibre polypropylene geotextile fabric for heavy duty applications. The permeable membrane allows water to flow through but ensures particles are kept in place.

APPLICATION

Pro-Living® Filter Fleece is used within an inverted green roof system in conjunction with the following waterproofing membranes:

- Cold Melt®
- Proteus Hot Melt®
- Pro-BW® Plus
- Pro-BW® LO

INSTALLATION

Installation Method

- Loose lay over the **Pro-Living® Drainage Layer**, unrolling across the direction of the slope/fall next to the wall or upstand at the low point
- Overlap subsequent sheets by a minimum of **300 mm** with the overlap covering the first sheet in the direction of the fall
- Use temporary ballast where necessary to hold sheets in place during the laying process
- Use separate pieces at all vertical details and penetrations, always achieving **300 mm** minimum overlap onto the horizontal and high enough to reach the top of the finishes

TECHNICAL INFORMATION

Characteristic	Standard	Value	Unit
Thickness	EN ISO 9863-1	1.0	mm
Mass per unit area	EN ISO 9864	150	g/m ²
Tensile strength md	EN ISO 10319	12.0	kN/m
Tensile strength cmd	EN ISO 10319	12.0	kN/m
Elongation at max load md	EN ISO 10319	55	%
Elongation at max load cmd	EN ISO 10319	60	%
Energy index	EN ISO 10318	3.5	kJ/m ²
Static puncture resistance	EN ISO 12236	1.9	kN
Dynamic puncture resistance cone drop test	EN ISO 13433	26	mm
Pyramid puncture resistance	EN 14574	n/a	N
Permeability normal to the plane	EN ISO 11058	100	mm/s

Characteristic	Standard	Value	Unit
In-plane flow capacity	EN ISO 12958	1.60	10-3 L/ms
Transmissivity	EN ISO 10318	1.60	L/ms
Opening size	EN ISO 12956	90	µm
Weathering resistance	Passes EN 12224 weathering test. It is highly recommended that the Filter Fleece is covered within 30 days from the day of installation. The material can be exposed to sunlight for a maximum of 4 months with a degradation of the mechanical properties depending on season		
Oxidation resistance	EN ISO 13438 Forecast minimum durability of 25 years for every application in natural grounds with 4<pH<9 and soil temperature <25°C		

SIZE, FINISH AND COLOUR

Product Code	Length m	Width m	Thickness mm	Colour	Weight g/m²	Total Weight kg
GRFF150100	100	1	0.65	Grey	150	15

SHELF LIFE AND HANDLING

Always use relevant safe manual handling techniques relevant to a products size and weight.

MATERIAL

UV stabilised virgin fibre polypropylene.

PACKAGING

Packaged in a plastic 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.

DISPOSAL

Disposal of **Pro-Living® Filter Fleece** should be done in a manner that is compliant with UK regulations and best practices. This includes ensuring that the material is properly classified and described, that it is not mixed with hazardous waste, and that it is disposed of in a manner that is environmentally responsible.

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](#)