



Wallbarn - Technical Datasheet

PPST Geotextile 100 GSM



Product Code: GE-PP-PPST-0100-Z

Product Description

Wallbarn PPST Geotextile is the premium nonwoven geotextile in the Wallbarn range. It's made from high-tenacity, UV-stabilised polypropylene fibres. It is ideal as protection & separation membrane in roofing, including inverted water proofing systems, heavy duty civils, tunnels, landfill & reservoirs.

It is also suitable for green roof applications, soil stabilisation, including French Drains. It has outstanding tensile and puncture strength and is the high performance solution for construction projects.

Key features:

- Made from virgin fibre polypropylene.
- UV stabilised for durability.
- Specific weight of polymer: 0.91 kg/dm³.
- Produced using staple fibres through needle punching and double calendaring.
- Melting point: 165-175 °C.
- Manufactured **without glues or chemical binders.**

Wallbarn PPST 100 is the most reliable nonwoven option for demanding applications where excellent performance is essential.

Available as 1 x 100 metre rolls (stock item) - Widths of 2, 3, 4, 5 & 6 metre available on special order (min. quantities apply).

Wallbarn Ltd
Unit 16 Capital Business Centre
22 Carlton Road, South Croydon. CR2 0BS

IMS.T.1044.v1

Phone : 0208 916 2222 Email : sales@wallbarn.com Website : www.wallbarn.com



Wallbarn - Technical Datasheet

Mechanical Properties	Standard	Value	Units	Tolerance	Tolerance (units)
Tensile Strength	EN ISO 10319 MD	7	kN/m		
	EN ISO 10319 CMD	7	kN/m		
Elongation at maximum load	EN ISO 10319 MD	55	%		
	EN ISO 10319 CMD	60	%		
Energy absorption index	EN ISO 10318	2.0	kJ/m ²		
Static puncture resistance (CBR)	EN ISO 12236	1.2	kN		
Dynamic puncture resistance	EN ISO 13433	38	mm		

Hydraulic Properties	Standard	Value	Units	Tolerance	Tolerance (units)
Permiability normal to the plane	EN ISO 11058	125	mm/s		
In-plane flow capacity	EN ISO 12958	0.8	10 ⁻³ l/ms		
Characteristic opening size	EN ISO 12956	120	µm		

µm = Micrometre

mm/s = Millimetre per second

kJ/m² = Kilojoule per square metre

MD = Machine Direction/Longitudinale

kg/dm³ = Kilogram per cubic decimetre

kN = Kilonewton

mm = Millimetre

g/m² = Gram per square metre

kN/m = Kilonewton per metre

⁻³l/ms = Cubic metre per millisecond

CMD = Cross Machine Direction/Trasversale

Wallbarn Ltd

IMS.T.1044.v1

Unit 16 Capital Business Centre
22 Carlton Road, South Croydon. CR2 0BS

Phone : 0208 916 2222 Email : sales@wallbarn.com Website : www.wallbarn.com



Wallbarn - Technical Datasheet

Physical Properties	Standard	Value	Unit	Tolerance	Tolerance (units)
Mass per unit area	EN ISO 9864	100	g/m ²		
Thickness	EN ISO 9863-1	mm	0.65		

Product Information	
Polymer	Polypropylene, UV stabilized
Specific Weight	0.91 kg/dm ³
Raw Material	Staple Fibres
Process	Needle punching and calandring
Colour	Raw White
Melting Point	165-175°C
Fibre Diameter	25-30 µm

Wallbarn PPST safely passes the weathering test according to EN 12224 it is highly recommended to cover the geotextile within 30 days from the installation; the material can be exposed to sunlight for a maximum of 4 months with a degradation of the mechanical properties depending on the season and on the latitude. The durability forecast is for minimum 25 years in natural ground with a 4<pH<9 and soil temperature < 25 °C.

The values given are an average obtained in internal labs and official independent testing institutes. The right is reserved to make changes any time without notice.

When using on Green Roofs, please refer to GRO Code and any other relevant building regulations before specifying.

Wallbarn Ltd
Unit 16 Capital Business Centre
22 Carlton Road, South Croydon. CR2 0BS

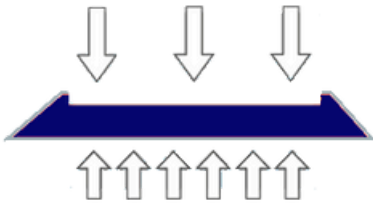
IMS.T.1044.v1

Phone : 0208 916 2222 Email : sales@wallbarn.com Website : www.wallbarn.com



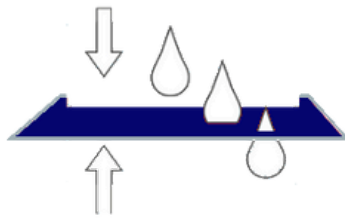
Wallbarn - Technical Datasheet

MAIN FUNCTIONS



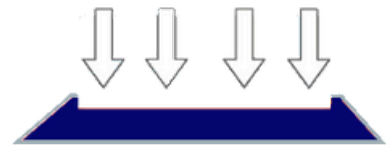
SEPARATION

Separation & retaining of soil and/or filling materials to stabilise groundworks



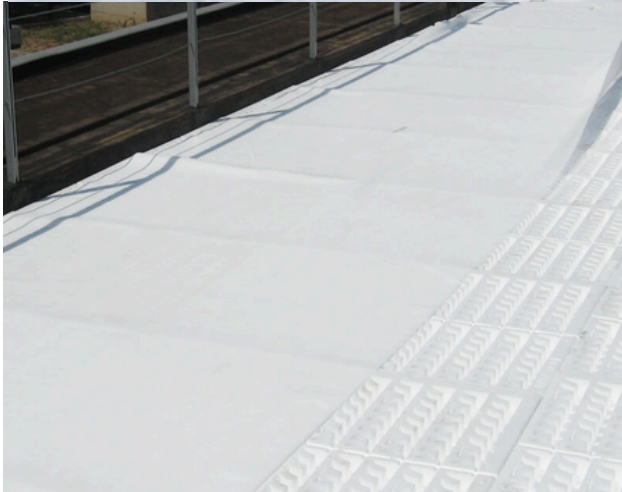
FILTRATION

Retaining soil or other particles while allowing the passage of moisture



PROTECTION

Preventing compression or puncture damage to delicate membranes beneath



1213-CPR-3269



Notified body

Wallbarn Ltd
Unit 16 Capital Business Centre
22 Carlton Road, South Croydon. CR2 0BS

IMS.T.1044.v1

Phone : 0208 916 2222 Email : sales@wallbarn.com Website : www.wallbarn.com