



Wallbarn - Technical Datasheet

PPST Geotextile 250 GSM



GE-PP-PPST-0250-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 250 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
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IMS.T.1045.v1

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Physical Properties	Standard	Value	Units	Tolerance %	Tolerance Units
Mass per unit area	EN ISO 9864	250	g/m ²	+/- 10	+/- 25
Thickness at:	:	:	:	:	:
2 kPa	EN ISO 9863-1	1.50	mm	+/- 20	+/- 0.30
20 kPa	EN ISO 9863-1	1.20	mm	+/- 20	+/- 0.24
200 kPa	EN ISO 9863-1	1.00	mm	+/- 20	+/- 0.20

Mechanical Properties	Standard	Value	Units	Tolerance	Tolerance Units
Tensile Strength	EN ISO 10319 MD EN ISO 10319 CMD	20.0 20.0	kN/m kN/m	-10 -10	-2.0 -2.0
Elongation at maximum load	EN ISO 10319 MD EN ISO 10319 CMD	65 70	% %	+/- 30 +/- 30	+/- 20 +/- 21
Energy absorption index	EN ISO 10318	6.80	kJ/m ²	-20	-1.36
Static puncture resistance (CBR)	EN ISO 12236	3.00	kN	-10	-0.30
Dynamic puncture resistance	EN ISO 13433	14	mm	+20	+3
Pyramidal puncture resistance	EN 12224	60	µm	+/- 30	+/- 18

µm = Micrometre

mm/s = Millimetre per second

kJ/m² = Kilojoule per square metre

MD = Machine Direction/Longitudinal

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/Trasversal

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Hydraulic Properties	Standard	Value	Units	Tolerance	Tolerance Units
Velocity index	EN ISO 11058	75	mm/s	-30	-23
Water flow capacity in their plane	EN ISO 12958	2.30	10 ⁻³ l/ms	- 30	-0.69
Characteristic opening size	EN ISO 12956	60	µm	+/- 30	+/- 18

Durability Properties	Standard	
Weathering resistance	EN 12224	To be covered within 30 days
Service Life	EN ISO 13438	Predicted to be durable for 100 years in natural soil with 4<pH<9 and soil temperature <25°C

µm = Micrometre

kg/dm³ = Kilogram per cubic decimetre

g/m² = Gram per square metre

mm/s = Millimetre per second

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MD = Machine Direction/Longitudinal

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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.

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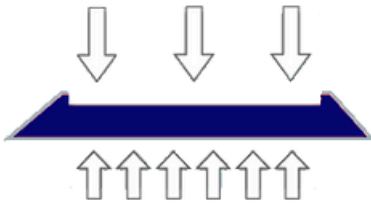
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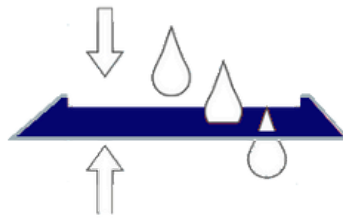
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MAIN FUNCTIONS



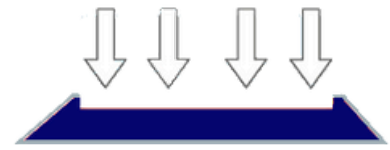
SEPARATION

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



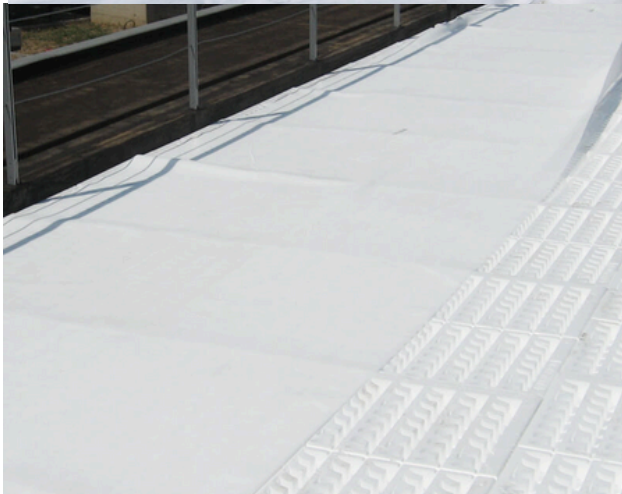
FILTRATION

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

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