



## Wallbarn - Technical Datasheet

### PPST Geotextile 150 GSM



**GE-PP-PPST-0150-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/dm<sup>3</sup>.
- Produced using staple fibres through needle punching and double calendaring.
- Melting point: 165-175 °C.
- Manufactured **without glues or chemical binders.**

Wallbarn PPST 150 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)**

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IMS.T.076.v3

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Physical Properties	Standard	Value	Units	Tolerance %	Tolerance Units
Mass per unit area	EN ISO 9864	150	g/m <sup>2</sup>	+/- 10	+/- 15
Thickness at:	:	:	:	:	:
2 kPa	EN ISO 9863-1	1.00	mm	+/- 20	+/- 0.20
20 kPa	EN ISO 9863-1	0.80	mm	+/- 20	+/- 0.16
200 kPa	EN ISO 9863-1	0.60	mm	+/- 20	+/- 0.12

Mechanical Properties	Standard	Value	Units	Tolerance	Tolerance Units
Tensile Strength	EN ISO 10319 MD EN ISO 10319 CMD	12.0 12.0	kN/m kN/m	-10 -10	-1.2 -1.2
Elongation at maximum load	EN ISO 10319 MD EN ISO 10319 CMD	55 60	% %	+/- 30 +/- 30	+/- 17 +/- 18
Energy absorption index	EN ISO 10318	3.50	kJ/m <sup>2</sup>	-20	-0.70
Static puncture resistance (CBR)	EN ISO 12236	1.90	kN	-10	-0.19
Dynamic puncture resistance	EN ISO 13433	26	mm	+20	+5

$\mu\text{m}$  = Micrometre

$\text{mm/s}$  = Millimetre per second

$\text{kJ/m}^2$  = Kilojoule per square metre

MD = Machine Direction/Longitudinal

$\text{kg/dm}^3$  = Kilogram per cubic decimetre

**kN** = Kilonewton

**mm** = Millimetre

$\text{g/m}^2$  = Gram per square metre

**kN/m** = Kilonewton per metre

$\text{m}^3/\text{ms}$  = 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	100	mm/s	-30	-30
Permeability normal to the plane	EN ISO 11058	100	l/m <sup>2</sup> s	-30	-30
Water flow capacity in their plane	EN ISO 12958	1.60	10 <sup>-3</sup> l/ms	- 30	-0.48
Characteristic opening size	EN ISO 12956	90	µm	+/- 30	+/- 27

Physical 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/dm<sup>3</sup> = Kilogram per cubic decimetre

g/m<sup>2</sup> = Gram per square metre

mm/s = Millimetre per second

kN = Kilonewton

kN/m = Kilonewton per metre

kJ/m<sup>2</sup>= Kilojoule per square metre

mm = Millimetre

<sup>-3</sup>l/ms = Cubic metre per millisecond

MD = Machine Direction/Longitudinal

CMD = Cross Machine Direction/Trasversal

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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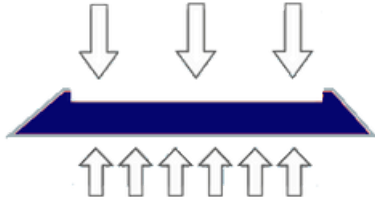
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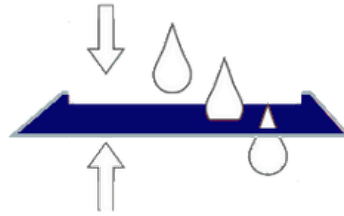
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## MAIN FUNCTIONS



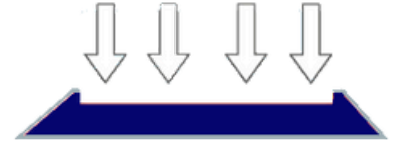
### SEPARATION

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



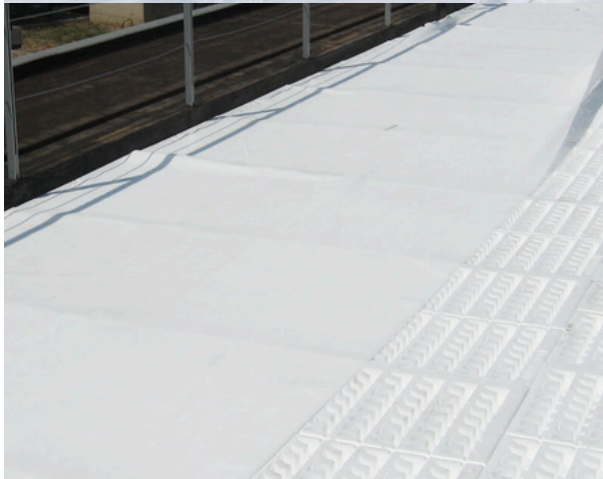
### FILTRATION

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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