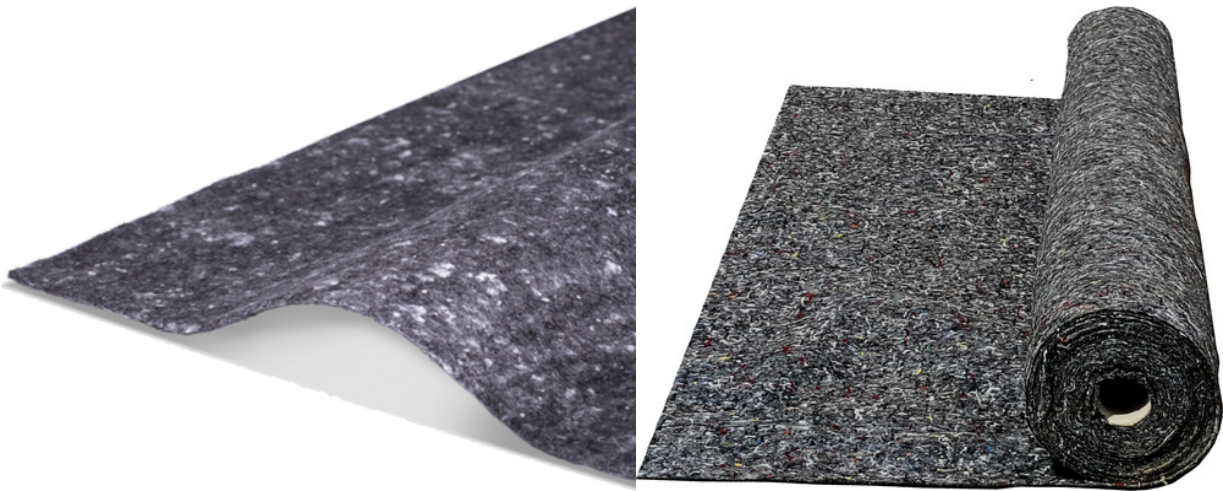




## Wallbarn - Technical Datasheet

### PPT Geotextile 500 GSM



**GE-PP-PPT-500-Z**

#### Product Description

Wallbarn PPT Geotextile is a nonwoven, recycled polypropylene material. This is a stronger, more durable fabric than the recycled polyester. PPT Geotextile is ideal as a protection, filtration & separation membrane for roofing - including inverted waterproofing systems - Civils - tunnels - landfills and green roof applications. Made from multi-coloured fibres resulting from recycling processes, it promotes sustainable construction.

#### Key benefits:

- Made from recycled Polypropylene material.
- Ideal for green roofing - [Meets GRO Code](#)
- High performance material with a cost saving.
- Can be exposed to sunlight (Must be covered within 15 days of installation).
- Durability forecast: minimum 5 years in natural ground with a pH between 4 and 9 and soil temperature above 25°C.
- Manufactured **without glues or chemical binders.**

#### Specifications:

- Polymer: Polypropylene
- Specific weight: 0.91 kg/dm<sup>3</sup>
- Raw material: Staple fibres
- Process: Needle-punched and calandered.
- Colour: Multi-coloured

**Available as 1 x 50 & 2 x 50 metre rolls (stock item) - Widths of 3, 4, 5 & 6 metre available on special order (min. quantities apply)**

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## Wallbarn - Technical Datasheet

Physical Properties	Standard	Value	Units	Tolerance %	Tolerance Units
Mass per unit area	EN ISO 9864	500	g/m <sup>2</sup>	+/- 10	+/- 50
Thickness at:	:	:	:	:	:
2 kPa	EN ISO 9863-1	3.00	mm	+/- 20	+/- 0.60
20 kPa	EN ISO 9863-1	2.60	mm	+/- 20	+/- 0.52
200 kPa	EN ISO 9863-1	2.00	mm	+/- 20	+/- 0.40

Mechanical Properties	Standard	Value	Units	Tolerance	Tolerance Units
Tensile Strength	EN ISO 10319 MD EN ISO 10319 CMD	10.0 10.0	kN/m kN/m	-15 -15	-1.5 -1.5
Elongation at maximum load	EN ISO 10319 MD EN ISO 10319 CMD	80 80	% %	+/- 30 +/- 30	+/- 24 +/- 24
Energy absorption index	EN ISO 10318	3.80	kJ/m <sup>2</sup>	+/- 20	+/- 0.76
Static puncture resistance (CBR)	EN ISO 12236	1.80	kN	-30	+3
Dynamic puncture resistance	EN ISO 13433	10	mm	+30	+3
Pyramidal puncture resistance	EN 14574	280	N	-30	-84

**µm** = Micrometre

**mm/s** = Millimetre per second

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

**MD** = Machine Direction/Longitudinal

**kg/dm<sup>3</sup>** = Kilogram per cubic decimetre

**kN** = Kilonewton

**mm** = Millimetre

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

**kN/m** = Kilonewton per metre

**m<sup>3</sup>/ms** = Cubic metre per millisecond

**CMD** = Cross Machine Direction/Trasversal

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## Wallbarn - Technical Datasheet

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 <sup>-3</sup> 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 15 days from the day of installation.
Service Life	EN ISO 13438	Forecast minimum durability of 5 years in natural ground 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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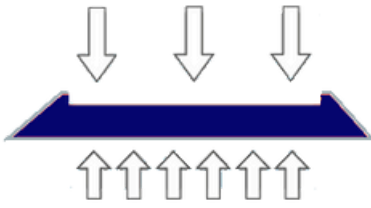
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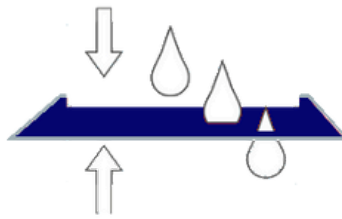
# Wallbarn - Technical Datasheet

## MAIN FUNCTIONS



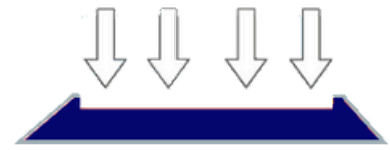
### SEPARATION

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-3548



Notified body

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