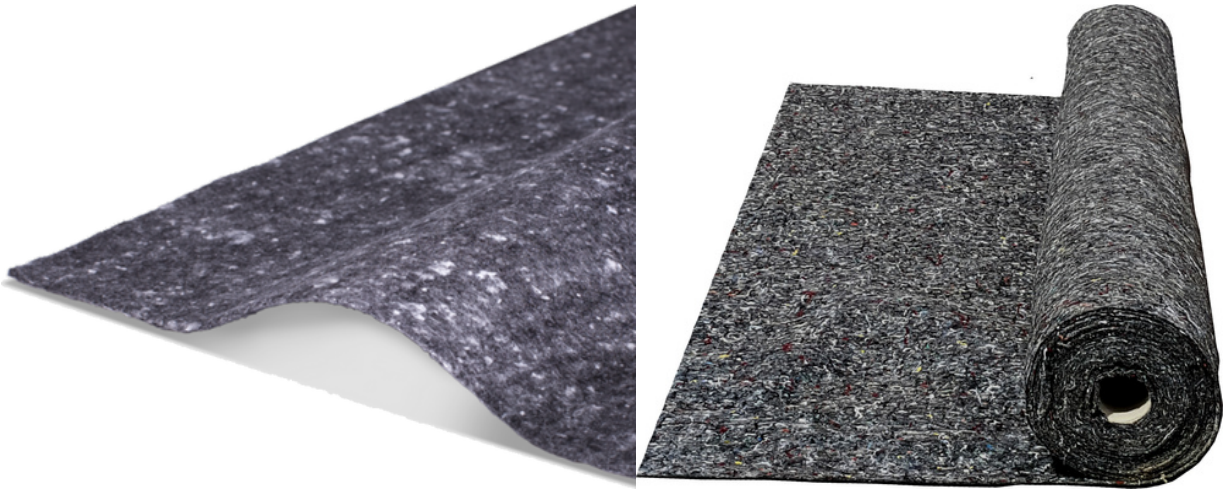




Wallbarn - Technical Datasheet

PPT Geotextile 400 GSM



GE-PP-PPT-400-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/dm³
- 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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IMS.T.1046.v1

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Physical Properties	Standard	Value	Units	Tolerance %	Tolerance Units
Mass per unit area	EN ISO 9864	400	g/m ²	+/- 10	+/- 40
Thickness at:	:	:	:	:	:
2 kPa	EN ISO 9863-1	2.50	mm	+/- 20	+/- 0.50
20 kPa	EN ISO 9863-1	2.20	mm	+/- 20	+/- 0.44
200 kPa	EN ISO 9863-1	1.50	mm	+/- 20	+/- 0.30

Mechanical Properties	Standard	Value	Units	Tolerance	Tolerance Units
Tensile Strength	EN ISO 10319 MD EN ISO 10319 CMD	7.0 8.0	kN/m kN/m	-15 -15	-1.1 -1.2
Elongation at maximum load	EN ISO 10319 MD EN ISO 10319 CMD	70 70	% %	+/- 30 +/- 30	+/- 21 +/- 21
Energy absorption index	EN ISO 10318	2.60	kJ/m ²	+/- 20	+/- 0.52
Static puncture resistance (CBR)	EN ISO 12236	1.4	kN	-30	-0.42
Dynamic puncture resistance	EN ISO 13433	18	mm	+30	+5
Pyramidal puncture resistance	EN 14574	240	N	-30	-72

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

m³/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	40	mm/s	-30	-12
Characteristic opening size	EN ISO 12956	70	µm	+/- 30	+/- 21

Durability Properties	Standard	
Weathering resistance	EN 12224	To be covered within 15 days from the day of installation.
Service Life		Forecast minimum durability of 5 years in natural ground with 4<pH<9 and soil temperature < 25°C.

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

m³/ms = Cubic metre per millisecond

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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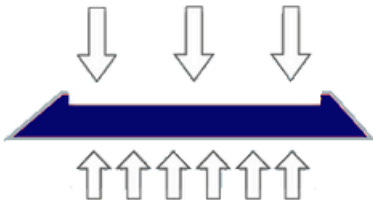
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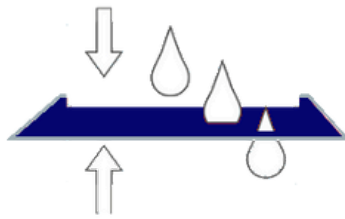
Wallbarn - Technical Datasheet

MAIN FUNCTIONS



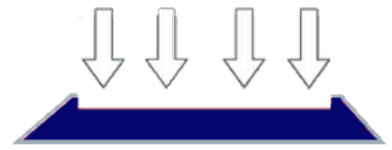
SEPARATION

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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