Engineered
Solutions for
Contaminated Land

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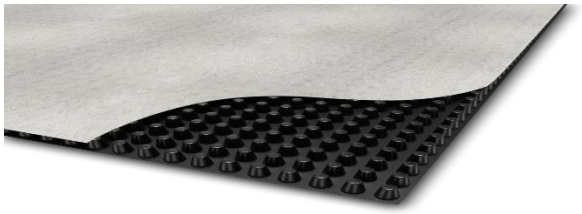
Technical Data Sheet – PAG 12 Single and Fully wrapped

(Rev 2025)

It is a geocomposite venting layer suitable for use in all ground gas applications.

Vacuum formed HDPE core
Bonded to
Geotextile fabric



- Proven performance in sub slab venting applications
- Available single textile or full wrapped
- Supplied in rolls for efficient installation

Description:

PAG 12 is manufactured from a single layer of vacuum formed high density polyethylene (HDPE) bonded to a layer of geotextile fabric. It acts as a high performance venting layer beneath building slabs for the efficient dilution and dispersion of ground gases. Developed in the early 1980's as a drainage composite, PAG 12 has been used for over 25 years as a means of venting beneath buildings.

Applications:

PAG 12 is suitable for all sites where the Risk Assessment defines as appropriate sub slab ventilation.

Approvals & Standards:

- BS8485:2015+A1:2019 – Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.
- CE Mark EN 13252:2016 – Geocomposite for drainage applications.

CE

System Components:

- All PAG venting components
- All PAG gas barriers
- PAG SAGR - Self Adhesive Gas Resistant Membrane
- PAG Cross Linked Butyl Sealant
- PAG Primer

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PROPERTIES	MD/CD	UNIT	VALUE	STANDARD
Composite				
In Plane gas flow			@ 7mm	
At 100kPa		l/m.s	9.9	
At 250kPa		l/m.s	8.1	
			@ 3mm	
At 100kPa		l/m.s	2.5	
At 250kPa		l/m.s	2.1	
With soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure				
Ventilation free path		(mm2/m)	5250	(indicative)
Air Volume		(l/m2)	8.9	(indicative)
Equivalent Void Depth		(mm)	8.9	(indicative)
Thickness at 2kPa		mm	12 SW 13.2 FW	EN ISO 9863-1
Mass per unit area		g/m2	1070 SW 1190 FW	EN ISO 9864
Tensile strength	MD/CD	kN/m	9.5 /9.5 SW	EN ISO 10319
	MD/CD	kN/m	27/19 FW	EN ISO 10319
Elongation at Peak	MD/CD	%	40 / 50 SW	EN ISO 10319
	MD/CD	%	46 /45 FW	EN ISO 10319
Static puncture resistance CBR		N	2300 SW 3700 FW	EN ISO 12236
Resistance to weathering	To be covered in 14 days			
Design Life		Years	120	Manufacturers declaration
Geotextile				
Thickness at 2kPa		mm	1.2	EN ISO 9863-1
Tensile strength	MD	kN/m	9.5	EN ISO 10319
	CD	kN/m	9.5	EN ISO 10319
Elongation at Peak	MD	%	50	EN ISO 10319
	CD	%	50	EN ISO 10319
Pore size O90		µm	120	EN ISO 12956
Water flow at 50mm	+ 30%	l/m2.s	98	EN ISO 11058
Static puncture resistance CBR		N	1600	EN ISO 12236
Dynamic perf cone drop		Mm	32	EN ISO 13433
Roll size	Width	m	1.1	
	Length	m	50	

NBS Specification:

PAG 6 Ventlayer is specified using the following:
Clause: J40/295
Product: PAG 12 Ventlayer
Supplier: PAGeo Ltd, Darwin House, Corby Gate Business Park, Corby, NN17 5JG.

Roll Sizing & Weight:

1.1m x 50m
Roll weight – Single wrap 59 kg, Fully wrapped 66 kg - hence appropriate care and equipment is required for unloading and handling.

Storage and Handling:

Classified as non-hazardous when used in accordance with the relevant British Standards. The product is chemically inert and is not affected by acids and alkalis that may be present in the sub-soils.
Rolls are wrapped individually in polythene. Each roll bears a product description label. Rolls should be stored under cover and on a flat, level surface, and protected from mechanical damage and heat sources. During storage exposure to direct sunlight is to be avoided.

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