

SIGMA GPS Universal Membrane For System/Type C Permeable Paving

SIGMA GPS Universal Membrane

System C - no infiltration:

Suitable for contaminated land where all the rainwater is captured in the sub-base and diverted away via outlet pipes to other drainage systems such as swales, ponds and sewers.

GPS Universal Membrane, an impermeable, flexible membrane is placed beneath the sub-base and up the vertical sides effectively forming a storage tank for the rainwater soaked through the paving layer. This prevents contaminants in the ground from being washed into watercourses.

Key Points

Regulations require that any newly constructed driveway or paved area diverts water away from local drains, watercourses and sewers to minimise flood risk.

Planning permission is required to construct non-permeable paved areas in which rainwater is allowed to run off to drains.

Using a permeable paving system avoids the need for planning permission.

The correct sub-base and jointing materials must be used to successfully construct a permeable driveway, path or patio.

Good workmanship is essential to success and keeping all aggregates and materials clean and free of debris is essential.

Advantages

- Suitable for use on sites contaminated with radon carbon dioxide and methane
- 4-metre-wide centre-fold membrane
- Premium DPM/vapour barrier
- Extremely tough with excellent resistance to tear and puncture
- Centre-fold to reduce membrane creasing
- Suitable as attenuation tank membrane

SIGMA GPS Can Offer:

Design solutions offering the most cost-effective system to comply with current legislation.

Supply and install service with on-site fabrication/welding

Next-day Delivery

Product Specification

Physical Description	Test Method	Value/Units
Weight		405g/m ²
Thickness		400µ
Colour		Varying
Roll Size		2m x 40m
Technical Performance		
Tensile strength	MD	21.5MPa
	CD	29.4MPa
Elongation at max load	MD/CD	> 800%
Dart impact strength		1.012kg
Tear Resistance	MD	248N/mm
	CD	303N/mm
Radon permeability		4 x 10 ⁻¹² m ² /s
CO ₂ Transmittance		26.53cc/m ² /hr
Methane transmittance		0.16g/m ² /day
Moisture Vapour transmission		0.16g/m ² /day
Roll weight		28.48kg

System Components

- GPS Gas and Lap Tape
- GPS GRM. Self-adhesive Gas Barrier
- GPS Geo-Vent + venting components
- GPS Liquid Vapour Membrane
- GPS Top Hat Pipe Cloaks
- GPS GR DPC. Gas resistant DPC
- GPS Pre-Formed Cloaks, Internal / external corners.



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