

Sigma GPS Universal Gas Barrier

Sigma GPS Universal Gas Barrier is a monolithic hybrid virgin polymer manufactured using the blown extrusion method.

The membrane contains no recycled material, as a result it is consistent and doesn't include any bio-degradable content thus providing excellent results for gas permeation.

The membrane is also suitable for use as a damp proof membrane.

Sigma GPS Universal Gas Barrier prevents the transmission of harmful gases and due to the nature of its construction; the membrane overcomes problems associated with membranes manufactured from post-consumer recycled waste.

Sigma GPS Universal Gas Barrier is suitable as a radon barrier and high performance DPM.

Third party verification may be required (BRE211 2023 edition)

For other ground gas situation utilise Sigma GPS Total Gas Barrier. Third party verification would be required.

A minimum welded overlap joint of 30 - 50mm wide should be achieved – it should be noted that the suitability of the welded joint is defined by the joint integrity, as tested in accordance with CIRIA C735

Advantages

- Suitable for use on radon contaminated sites
- 2-metre-wide – single wound membrane
- Premium DPM/vapour barrier
- Extremely tough with excellent resistance to tear and puncture
- Compatible with vented systems
- Conforms to the requirements of BR211.
- Suitable for use as a high performance DPM

SIGMA 360 Ltd Can Offer:

- Design solutions offering the most cost-effective system to comply with current legislation.
- Independent Integrity testing (site based)
- Independent Verification reports (site based)
- Bespoke systems to overcome demanding situations
- 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	+/- 10%	400mu
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

- Sigma GPS Gas and Lap Tape
- Sigma GPS GRM. Self-adhesive Gas Barrier
- Sigma GPS Geo-Vent + venting components
- Sigma GPS Liquid Vapour Membrane
- Sigma GPS Top Hat Pipe Cloaks
- Sigma GPS GR DPC. Gas resistant DPC
- Sigma GPS Radon Sump
- Sigma GPS Pre-Formed Cloaks, Internal /
- external corners, Door threshold cloaks, Party wall tray.



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