

Sigma GPS Universal Gas Barrier

Radon, carbon dioxide and methane barrier for NHBC Amber 1 situations

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, carbon dioxide and methane barrier for NHBC Amber 1 situations and does not normally require third party verification (NHBC issue 20 – April 2016)

For Amber 2 situations utilise Sigma GPS Total Gas Barrier. Third party verification would be required.

Advantages

- Suitable for use on sites contaminated with radon carbon dioxide and methane (NHBC – Amber 1)
- 4-metre-wide centre-fold membrane
- Premium DPM/vapour barrier
- Extremely tough with excellent resistance to tear and puncture
- Compatible with vented systems
- Conforms to the requirements of BR211, NHBC Amber 1

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

Sigma 360 Limited

Tel: 0115 9446949

Email: info@sigma360.co.uk | Web: www.sigma360.co.uk

Sigma 360 Ltd | Heanor Road | Loscoe | Heanor | DE75 7JT

Product Specification

Physical Description	Test Method	Value/Units
Weight		356g/m ²
Thickness		375µm
Colour		Varying
Roll Size		4m x 20m
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.

