

Delta Ground Gas Barrier Systems

Brownfield land is a word specifically used to describe land which has previously been used for commercial or industrial purposes with suspected or known contamination (such as pollution or soil contamination) or land which has been in close proximity to pollution, hazardous waste or soil contamination.

The Government pledged in April 2017 to unlock Brownfield land to accommodate our housing shortage. Local authorities across the United Kingdom under new legislation now have to produce and maintain up-to-date, publicly available registers of Brownfield sites available for housing locally. These new registers will help house builders identify suitable Brownfield sites instantly, therefore unlocking land for thousands of new homes.

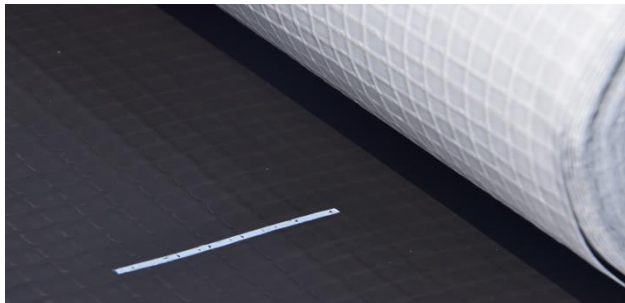
MemTech Gas Membranes

Delta Membrane Systems Limited is delighted to have launched a new range of [Gas Membranes](#), our [MemTech Gas Protection](#) range are BBA Approved and work in compliance with Building Standards (BS8485:2015, BRE 211.2015, CIRIA 665, CIRIA 735, CIRIA 748 and NHBC Standards) suitable for the protection against dangerous gases and chemicals when building on Brownfield and contaminated sites.



Our MemTech Gas Membranes work in harmony with our waterproofing/damp proofing membranes offering complete reassurance.

MemTech M1



MemTech M1 is a flexible, loose laid proprietary gas barrier for use on sites with Radon (RN), Carbon Dioxide (Co₂) and Methane (CH₄) ground gas. M1 will also protect against the ingress of Hydrocarbon Vapours where it is separated from the ground e.g. above a block and beam floor. The barrier is manufactured by an extrusion/coating process which

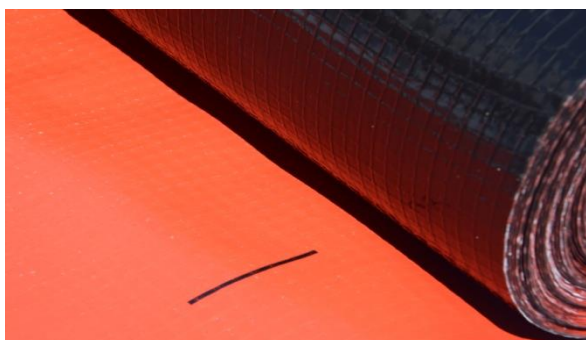
incorporates a two layer low density polyethylene membrane with a polypropylene reinforcement grid and an aluminium foil core. The membrane is extremely flexible for ease of installation and is robust enough to cope with site conditions.

MemTech M1 meets requirements of BS8485:2015 and BRE 211: 2015 Radon: Guidance on Protective Measures for New Buildings and Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings.

MemTech R1

MemTech R1 is a flexible, loose laid proprietary gas barrier for use on sites with Radon (RN) ground gas. The barrier is manufactured by an extrusion/coating process which incorporates a three layer, low density polyethylene membrane which is reinforced with a polypropylene reinforcement grid. The membrane is extremely flexible for ease of installation and is robust enough to cope with site conditions. R1 meets the requirements of BRE 211: 2015, Radon: Guidance on protective measures for new buildings.

R1 Gas Barrier will also protect against damp and therefore will act as a DPM in accordance with CP: 102:1973, section 2 and BS: 8000-4:1989, and National Building Regulation Approved document C.



MemTech LGB

MemTech LGB (Liquid Gas Barrier) is a ready for use specialist styrene butadiene latex based liquid applied gas membrane. It offers a simple, continuous passive gas prevention barrier against the ingress of Methane, Carbon Dioxide, Radon, Ground Gas, VOC, air & Moisture into buildings. **LGB** also acts as a waterproofing membrane complying with C2 and C4 schedule 1 of the Building Regulations 1991 for England and Wales. MemTech LGB meets the requirements of BS8485:2015.



MemTech Void Vent

MemTech Void Vent is a cusped HDPE core with a geotextile filter/separator bonded to a single side, in either 25mm or 40mm depth. MemTech Void Vent provides a means of ventilation when used in conjunction with an approved Gas Protection Barrier, in accordance with the recommendation(s) contained within NHBC Guidance and BS8485:2015.



MemTech Void Vent 25 is optimised for maximum strength and performance. MemTech Void Vent 25 is independently tested and verified by UKAS accredited bodies.

MemTech Titan

Titan is a multi-layer flexible polyethylene membrane (a Gas and Hydrocarbon Barrier), with a unique core component which is designed and manufactured to provide a barrier to the most aggressive chemicals and to comply with current guidance on Hydrocarbons. Manufactured



using the latest extrusion technology, this membrane is suitable in applications that are affected by Hydrocarbons. There is a common misconception that monolithic polyethylene barriers, such as HDPE and LLDPE are effective barriers to resist Hydrocarbons. This is an incorrect assumption, as Hydrocarbons will readily permeate through monolithic polyethylene barriers. Titan is specifically designed and manufactured to perform as a Methane, Carbon Dioxide, Radon, Ground Gas, VOC, air & Moisture and Hydrocarbon protection system. Titan complies with the latest codes of practice as published by BRE, CIRIA (C748) and BSI (BS 8485:2015). Suitable for use as Ground Gas/Hydrocarbon protection for NHBC GREEN,

AMBER 1, AMBER 2, and RED site characterisations.

For help on the MemTech range of Ground Gas Protection, please contact Delta Membranes' Technical Team on 01992 523 523 or email: info@deltamembranes.com.