



# MEMTECH PRO R1 RADON BARRIER PRODUCT DATA SHEET

Date: June 2018



MEMTECH PRO R1 Gas Barrier is a flexible, loose laid proprietary gas barrier for use on sites with Radon (RN) ground gas. MEMTECH PRO R1 is available in various colours, but it Red (top) and Grey (bottom) as standard.

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. MEMTECH PRO R1 is manufactured to meet the requirements of BRE 211: 2015, Radon: Guidance on protective measures for new buildings.

MEMTECH PRO 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.

The Gas Barrier should be designed and specified in accordance with the most up to date guidance and most recent regulations. Attention is drawn to CIRIA C665, C716, C735, C748, and BS8485:2015 and CIEH guide to Ground Gas.

A gas membrane should be specified on its likelihood to survive the construction process in tact, therefore the tensile strength, durability and robustness should all be taken into account.

MEMTECH PRO R1 can be tape jointed or heat welded. In either case adequate care should be taken to ensure a seal between the joint. If taping joints a 40mm silicone roller should be used to remove any trapped air.

It is recommended a suitably qualified installer is utilised to install the product, a Delta Registered Gas membrane installer or with a Construction Skills NVQ level 2 qualified installer recommended.

If there is a requirement for a specialist contractor to install the system MEMTECH PRO R1 can advise on contractors who are qualified to do so.



**MEMTECH  
MEMBRANES**

Registered Offices:  
Delta House, Merlin Way, North Weald,  
Epping, Essex, CM16 6HR

01992 523 523  
info@deltamembranes.com  
www.deltamembranes.com



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## INSTALLATION

MEMTECH PRO R1 Gas Membrane and ancillary components should be installed in accordance with the recommendations of Building Research Establishment BRE 414, BRE 211:2015 and CIRIA C665.

The membrane should be installed on a sand blinding layer, Delta Protech geotextile protection fleece or smooth concrete float finish. In order to provide a continuous barrier across the cavity MEMTECH PRO R1 should be taken through the block work and incorporated below the damp proof course/cavity tray in the outer leaf.

Laps can be joined together by either using the jointing tape or welded by specialist on-site contractors.

## JOINTING AND SEALING

MEMTECH PRO R1 Gas Membrane should be overlapped by at least 100mm and as a minimum, sealed with Jointing Tape. The joint should then be secured by removing any trapped air with a 40mm silicone seam roller (any creases or air bubbles in the seam are likely to fail an air lance integrity test to C735 and should therefore be avoided). Ensure that the membrane is clean and dry at the time of jointing. Airtight seals should be formed around all service entry points, stanchions and corners details. Pre-formed or self-adhesive gas membrane must be used for sealing service entry pipes.

## COMPLIANCE AND CERTIFICATION

CE Mark - EN13967:2012  
NHBC Standards Compliant  
BRE 211: 2015 Compliant  
BS8485:2015 Compliant

NSAI Certified  
Certificate no. 17/0390

BBA Certified  
Certificate no. 16/5367 P1

## DELTA MEMTECH PRO M1 - MATERIAL PROPERTIES

Roll Length	50m
Roll Width	2m or 3m
Thickness	0.5mm
Colour	Various
Tensile Strength (N per 50mm)	
MD	500
CD	470
Elongation	
MD	15
CD	20
Nail Tear Resistance	
MD	400
CD	350
Radon Permeability (m <sup>2</sup> /sec)	4.3 x 10 <sup>-12</sup>
Methane Permeability (mL/m <sup>2</sup> /day/atm)	<514
Carbon Dioxide Permeability (mL/m <sup>2</sup> /day/atm)	<514



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