

Visqueen Gas Barrier

TECHNICAL DATA SHEET

- High quality Multi Layer Reinforced LDPE Polyethylene Membrane with Aluminium core.
- High resistance to puncture.
- Low permeability to methane, radon and carbon dioxide.
- Also acts as a damp proof membrane.
- High levels of tear and impact resistance.

Description

The Building Regulations require that proper precautions be taken to prevent danger to health and safety when building on contaminated land. Visqueen Gas Barrier offers a safe solution for the protection of buildings against methane, radon and carbon dioxide, when installed in accordance with BRE Report: Construction of buildings on Gas Contaminated land.

Visqueen Gas Barrier is a multi layer reinforced polyethylene membrane with an integral aluminium foil. For ease of identification on site Visqueen Gas Barrier is coloured blue tint on one side and silver on the reverse. The Barrier is flexible and is easy to install. Visqueen Gas Barrier is also suitable for use as a damp proof membrane.

Applications

Visqueen Gas Barrier is suitable for use where methane, radon or carbon dioxide is a problem. Typically these are sites previously used as landfill or are contaminated industrial sites.

Typical Properties	
Weight per sq metre	350 g/m ²
Roll Length	30m, 60m
Roll Width	1.6m
Thickness Aluminium Foil	20µm

The Visqueen Gas Barrier System

Visqueen Double Sided Tape - a butyl based double sided tape for joins and laps.

Visqueen Foil Backed Girth Jointing Tape - a single sided jointing tape suitable for securing laps and joins.

Visqueen Gas Resistant DPC - A flexible polyethylene DPC with an aluminium foil designed to prevent the transmission of radon and methane gases.

Pre-formed Top Hat Units - for effective sealing around service pipe penetrations.

Visqueen Gas Resistant Self Adhesive Membrane - a self adhesive membrane designed to prevent the transmission of radon and methane gases.

Installation

Visqueen Gas Barrier and ancillary components must be installed in accordance with the recommendations of Building Research Establishment BRE No: 211 "Radon : guidance on protective measures for new dwellings" and BRE No 212 "Construction of new buildings on gas contaminated land". The product is not intended for use where there is the risk of hydrostatic pressure. Visqueen Gas Barrier should be installed on an blinded or smooth surface allowing adequate overlap for jointing between the sheets and avoiding bridging (i.e. areas of unsupported membrane).

In order to provide a continuous barrier the membrane should be taken up the walls to the Damp Proof Course level and incorporated beneath it in the inner skin.

Jointing

Visqueen Gas Barrier should be overlapped by at least 150mm and bonded with Visqueen Double Sided Tape. This joint should be secured with Visqueen Foil Backed Girth Jointing Tape. Ensure that the membrane is clean and dry at the time of jointing.

Perforations or punctures in the sheet should be covered with another part of the sheet and have an overlap of at least 150mm and the laps sealed with Visqueen Double Sided Tape and secured with Visqueen Foil Backed Girth Jointing Tape.

Airtight seals should be formed around all service entry points. Preformed Top Hat Units are available for sealing around pipe entries. The base of the preformed unit should be sealed using Visqueen Double Sided Jointing Tape.

Covering

Visqueen Gas Barrier should be covered by a screed or other protective layer as soon as possible after installation. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying the screed or concrete. A minimum thickness of 50mm screed is recommended.

When reinforced concrete is to be laid over the barrier the wire reinforcements must be prevented from contacting the barrier. It is recommended that the barrier is covered with screed before positioning the reinforcement.

When underfloor heating is being installed, it is recommended that the barrier is positioned between the blinded hardcore and insulation to protect the installation from moisture and to avoid any risk of overheating the membrane.

External and Internal corners should be rounded. Where this is unavoidable then the angles must be strengthened with a 300mm wide strip of Visqueen Gas Barrier.

Storage and Handling

Visqueen Gas Barrier is classified as non hazardous when used in accordance with the relevant Code of Practice (CP 102 1973). The product is chemically inert and is not affected by acids and alkalis that may be present in the sub-soils. Exposure to ultraviolet light will embrittle the product. The material is not therefore recommended for uses where it will be exposed to long periods of outdoor weathering. However weathering will not occur when the membrane is installed in accordance with CP102 1973. Care should be taken to avoid accidental damage when handling Visqueen Gas Barrier on site.

Useful References

The Building Regulations Approved Document Part C 1992

CP 102 : 1973 Code of practice for the protection of buildings against water from the ground.

BS 8102 : 1990 Code of practice for the protection of structures against water from the ground.

BS 8215: 1991 Code of practice for the design and installation of Damp Proof Courses in Masonry construction.

BS 8000 : Part 4:1989 Workmanship on Building Sites. Code of practice for waterproofing.

Building Research Establishment BRE No: 211" Radon : guidance on protective measures for new dwellings"

Building Research Establishment BRE No 212 " Construction of new buildings on gas contaminated land".

Pricing & Availability

Prices may be obtained from our UK Network of merchant stockists. For details of these call our Sales Office on 01993 776346

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