

Visqueen Gas Vent Mat

In accordance with BS8485 and BS8102



- Lightweight and easy to lay with high gas flow capacity
- Creates a depressurisation zone for collection of ground gases
- Unrivalled technical and design support
- Cost effective compared to traditional below slab perforated pipework and fill

Description

Visqueen Gas Vent Mat comprises a cusped HDPE (High Density Polyethylene) core bonded to a nonwoven polypropylene geotextile filter membrane. Visqueen Gas Vent Mat is 25mm thick and supplied in 900mm x 50m roll format.

Application

Visqueen Gas Vent Mat is specifically designed to overcome the problem of high levels of gas concentrations underneath buildings. When dealing with VOC (Volatile Organic Compounds) our venting solutions form an integral part of a passive system designed to deal with the problem of contaminating gas through dilution to safe levels.

Visqueen Gas Vent Mat has been developed and tested extensively in line with the 'DETR Partners in Technology Report – 1997' and is an integral part of venting design used in BS8485 code of practice and various Ciria guidelines including C665 and the forthcoming RP938. The design of the primary gas protection layer and complete venting system is determined by gas type, concentrations and emission rates and is determined by a points system.

Vent mat can also be used as a heavy-duty protection medium over tanking membranes and facilitate drainage in high risk situations, the product forms a void to collect and transmit water into adjacent drainage outlets or collector pipes. Geotextile filter side to face direction of the ground water or the backfill medium in accordance to BS8102:2009 the system should be connected to a land drain that is also maintainable.

Important Installation Information

Visqueen Gas Vent Mat is designed to be installed with the geotextile filter side of the product facing the direction of the gas flow.

The vent mat **must** be laid on permeable stone and not sub bases such as MOT Type 1
 For further information please see our Installation section.

Installation - gas venting

Visqueen Gas Vent Mat is designed to be installed with the geotextile filter side of the product facing the direction of the gas flow. The product can be laid as single widths at predetermined centres beneath a ground bearing slab or raft foundation to create a strip effect, or butted together to create a blanket. When laying in strip format, careful consideration should be given to the foundation and super structure design in order for the vent mat to be positioned accordingly to avoid over complex detailing. Please consult with the Visqueen Technical Support Team for assistance when designing and detailing a strip venting design system.

Jointing

Where a blanket is required, unroll the mat into position. The next roll should be placed in a similar way to the first so the dimpled cores butt together.

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The geotextile filter membrane extends beyond the width of the dimpled HDPE core at one side; this creates an overlap flap. Continue laying further rolls in a similar manner to create the blanket.

Complete system solution

Visqueen's Gas Vent Mat is a full system solution when connected to air inlets and outlets, allowing sufficient air changes to dilute gases to safe concentrations when designed correctly. Our full range consists of pipework, connectors and vent outlets to manage various design requirements. Please see our separate datasheets for connectors/pipework and vent outlets.

Installation – External tanking protection and drainage in accordance to BS8102:02009

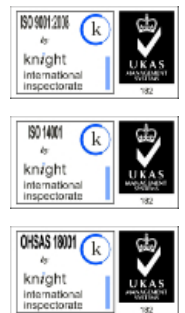
Visqueen Protect&Drain is designed to be installed with the geotextile filter side (white face) of the product facing the direction of the water flow, backfill medium or slab.

- Rolls can be cut to length with a sharp knife.
- Unroll into position. Adjacent rolls should be placed in a similar way to the first so the dimpled cores butt together.

The geotextile filter membrane extends beyond the width of the dimpled HDPE core at one side; this creates an overlap flap which should be secured to the adjacent roll with VisqueenPro Single Sided Jointing Tape. Continue laying further rolls until the membrane is protected over its entire area.

Specification

Visqueen offer an unrivalled technical and design service. Please contact our technical helpline on 0845 302 4758 for further information. Venting systems should be designed on a site specific basis.



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Product Data

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heading	Characteristic	Test method	Units	Value or Statement
	Width		mm	900
	Length		m	50
	Thickness	EN ISO 9863-1	mm	25
	Compressive strength		kn/m2	300
	Roll weight		kg	74
	Roll diameter		m	1.3
	In-plane air flow capacity with soft/hard platens @ 20mm and 100kPa	BE EN ISO 12958	l/m/s	155
	Shear Strength	BE EN ISO 13426-2	kN	1



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Appendix A



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Visqueen Building Products

Visqueen is the market leader in the manufacture and supply of structural waterproofing and gas protection systems. Visqueen offers the complete package - a proven, reliable range backed by a technical support service that goes unmatched in the market - everything you would expect from a reputable and ethical company.

System Accessories

To ensure full waterproofing protection please use the following certified system components:

- Visqueen High Performance (HP) Tanking Primer
- Visqueen TreadGUARD1500
- Visqueen Protect&Drain
- Visqueen Top Hat Unit

Downloads Library

- Technical Datasheet
- Declaration of Performance
- Visqueen's Guide to CE Marking

Find your local stockist

Search our directory of Visqueen specification Stocking Centres to locate your nearest Visqueen Partner.

Distributor Support

Our specification Stocking Centres can access a free library of sales support tools, bespoke catalogues and more, [click here](#).

Technical support throughout your project

We are specialists in our field and can help you specify the correct solutions with the necessary performance levels, in accordance with building regulations.

- Nationwide site support team
- Specification advice
- Installation guidance & project sign off
- System design including CAD details

