

Visqueen Gas Vent Mat

In accordance with BS8485 and BS8102

Page 1



nssPlus

- **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.

System Components

- [PRO Gas Vent Box](#)
- [Gas Vent Bollard](#)
- [Gas Flow Fittings](#)

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.

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.



Visqueen Gas Vent Mat

In accordance with BS8485 and BS8102

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.

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.



Visqueen Gas Vent Mat

In accordance with BS8485 and BS8102

Product Data

Product Data

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



Visqueen Gas Vent Mat

In accordance with BS8485 and BS8102

Appendix A

About Visqueen

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.

Complete Range, Complete Solution

- Structural Waterproofing
- Damp Proof Course
- Damp Proof Membranes
- Gas Protection and Gas Venting
- Vapour Control Layers
- Stormwater Protection

Download Library

- Technical Datasheet
- Standard Details
- Technical Service
- Visqueen Gas Protection Brochure
- NBS Clauses
- BBA Certificates
- Material Safety Datasheets
- Specification Guide

Find your local stockist

Search our directory of Visqueen specification [Specialist Centres](#) to locate your nearest Visqueen Partner.

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

CPD Seminars and Training Academy



Gas Protection CPD

The specification, technical design, and installation of gas protection systems, enabling the sustainable regeneration of brownfield sites.



Structural Waterproofing CPD

The specification, technical design, and installation of structural waterproofing systems for protection against water and damp ingress in both above and below ground projects.



Visqueen Training Academy

We are now able to offer exclusive in depth training opportunities on a wide variety of Visqueen products at our Training Academy.



Visqueen Special Projects

We provide high-level expertise, comprehensive support and experience in all types of waterproofing and gas protection.



Part of RPC bpi group

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG

0333 202 6800 enquiries@visqueen.com www.visqueen.com

The information given in this datasheet is based on data and knowledge correct at the time of printing. Statements made are of a general nature and are not intended to apply to any use or application outside any referred to in the datasheet. As conditions of usage and installation are beyond our control we do not warrant performance obtained but strongly recommend that our installation guidelines and the relevant British Standard Codes of Practice are adhered to. Please contact us if you are in any doubt as to the suitability of application.

