Technical Datasheet

Visqueen Gas Vent Mat

Features & benefits

- Large format rolls - rapid installation
- Less contaminated soil to be removed compared to pipe and gravel systems
- System achieves between 0.5 and 1.5 points in accordance with BS8485:2015 + A1:2019
- Range of system components - provides various methods of exhausting gases to atmosphere

Product description

Visqueen Gas Vent Mat is a geocomposite void former comprising a cuspated high density polyethylene (HDPE) core bonded to a nonwoven polypropylene geotextile filter membrane. Visqueen Gas Vent Mat is 25mm thick and supplied in rolls 900mm x 50m.

Approvals and standards

- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Vent Mat is designed to create a 25mm deep void beneath reinforced concrete ground floor slabs. Hazardous ground gases including radon and volatile organic compounds (VOCs) are collected within the void and dispersed to atmosphere via a designed arrangement of Visqueen connectors and venting components, collectively managing and effectively diluting the collected gases.

Where high gas concentrations have been recorded the vent mat can be laid in a blanket format with the individual mats being butted together. Where the gas concentrations are low or where pressure relief is required the vent mat can be laid in a strip format with the mat being laid at predetermined spacings.

System components

- VisqueenPro Detailing Strip, 300mm x 10m

Storage and handling

Visqueen Gas Vent Mat should be stored on end, under cover in the original packaging.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Visqueen Gas Vent Mat should be installed on a substrate appropriate for the specification, free from voids or protrusions.

To prevent wind uplift when working on exposed sites, it is advisable to consider loading the vent mat with sandbags or other ballast as installation progresses.

The vent mat can be cut with a sharp retractable safety knife.

Installation

Unroll Visqueen Gas Vent Mat in position. Turn over so that the geotextile filter membrane layer faces downwards i.e. towards the substrate.

When laid in a blanket format, all joints should be butted with the overlap strip of geotextile filter membrane extending beneath the adjacent vent mat.

When laid in strip format, end laps should be butted with the overlap strip of geotextile filter membrane, when present, extending beneath the adjacent vent mat.

Where necessary the vent mat can be cut around columns, pipes and other such penetrations.

For effective gas dispersal, the vent mat should be connected to a means of exhausting the collected gases to atmosphere e.g. Visqueen Adjustable Z Vents and Airbricks, Visqueen Pro Gas Vent Boxes or Visqueen Gas Vent Bollards.

Usable temperature range

There are no temperature range restrictions for installing Visqueen Gas Vent Mat and associated system components.

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Visqueen Gas Vent Mat

Additional information

When designing the venting or pressure relief system careful consideration should be given to the substructure elements such as positioning of foundation pads and ground beams so as to avoid over complex detailing.

For assistance with gas venting or gas pressure relief design and detailing, contact Visqueen Technical Office on 0333 202 6800

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

Property	Test method	Units	Value
Width		mm	900
Length		m	50
Thickness	BS EN ISO 9863-1	mm	25
Compressive strength	BS EN ISO 25619-2	kN/m²	300
Roll weight		kg	74
Roll diameter		m	1.3
In-plane air flow capacity with soft/hard platens @ 20mm and 100kPa	BS EN ISO 12958	l/m/s	155
Shear Strength	BS EN ISO 13426-2	kN	1
Ventilation free path (indicative)	Calculated	mm²/m	14,400

Health and safety information

Refer to the Visqueen Gas Vent Mat safety datasheet (SDS).

About Visqueen

Visqueen is a leading provider of construction membrane technologies and design-based solutions for ground gas, structural waterproofing, damp proofing and fire protection.

We offer complete support at every stage of the specification, including the supply chain process. As the UK's principal technical authority, we are best placed to ensure that the principal designer and contractor specify the most technically suited, durable, and competitive solution to guarantee their project is protected for the lifetime of the building.

Visqueen is at the forefront of advanced membrane technology and innovation in the construction industry, earning the trust and loyalty of specifiers throughout the UK and Europe.

For more information, visit visqueen.com or contact our sales office at +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Passive Fire Protection | Gas Protection | Damp Proof Membrane | Air and Vapor Control | Stormwater | Damp Proof Course | Temporary Protection

Visqueen Technical Support

Visqueen offer a comprehensive full nationwide technical support. Our team of CSSW qualified technical support managers provide on site design-based solutions for specifiers, contractors and builders merchants, and will ensure that from design stage to installation the project is fully risk assessed and the specification is approved by all stakeholders.

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Our Technical Office, can design, prepare and manage CAD detailing, together with assisting in quantity take offs, while offering advice on technical installations and product selection.

Competency & Design

Visqueen promotes competency in building design by ensuring that its technical team possesses the necessary skills, knowledge, experience, and ethical practices. The company adopts the "golden thread of information," ensuring all project data is digitally secure and accessible throughout a building's lifecycle. This approach aligns with the Building Safety Act and aims to foster accountability and compliance with evolving regulations, providing clients with confidence in the safety and reliability of their projects.

Visqueen CPD Seminars

Visqueen's CPD Seminars offer insights into Building Regulations, Standards, and industry guidance related to damp proofing, hazardous ground gas protection, and structural waterproofing. These one-hour seminars are tailored for construction design professionals and delivered by our Technical Support Managers. Visit our website to book a free CPD.

Visqueen Contract Design Services

Visqueen Contract Design Services offers a bespoke design service led by our team of Certified Surveyors in Structural Waterproofing (CSSW), providing experienced and specialised waterproofing design expertise for complex projects. We provide comprehensive support throughout the entire project, ensuring that all work meets the requirements of warranty providers and adheres to the highest standards of quality, reliability and current legislation.

Visqueen Training Academy

Based at our Derbyshire facility, the Visqueen Training Academy offers a variety of training programs across the UK. These include one-day product awareness sessions for distributors and builders' merchants, and intensive two-day courses for hands-on product installation training. Contact us for more information.

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