Technical Datasheet

Visqueen Cavity Drain Membrane System Components

Features & benefits

- Used with Visqueen CM8 Membrane and Visqueen CM20 Membrane
- Full range of system components - ensures a complete cavity membrane and drainage system in accordance with BS 8102:2022

Product description

CAVITY MEMBRANE TAPES AND FIXINGS
Visqueen CM Butyl Rope - a double-sided self adhesive butyl tape, 10mm x 5m
Visqueen CM Butyl Tape - a double-sided self adhesive butyl tape, 28mm x 22.5m
Visqueen CM Butyl Overseal Tape - a single-sided self adhesive butyl tape, 75mm x 22.5m
Visqueen CM Butyl Corner Detail Tape - a single-sided self adhesive butyl tape, 150mm x 20m, 2 rolls per box
Visqueen CM Brick Plug with seal washer - masonry plugs, 60mm x 10mm, 100 per bag

CAVITY DRAIN COMPONENTS
Visqueen CD Water Channel with upstand - a water channel, 80mm wide, 45mm deep, 2m length, 55mm high upstand
Visqueen CD Water Channel without upstand - a water channel, 80mm wide, 45mm deep, 2m length
Visqueen CD Universal Channel - a combined water channel without upstand, that includes an upper 45mm internal diameter inspection port and 100mm internal diameter bottom pipe outlet. The channel is 90mm wide, 55mm deep, 360mm length
Visqueen CD Jointing Section - a jointing unit that connects two sections of a water channel
Visqueen CD Stop End - an end cap unit for a water channel
Visqueen CD Swept Corner - a right angled unit that connects two sections of water channel at a corner
Visqueen CD T Piece - a T shaped unit that connects three sections of water channel at a three way junction
Visqueen CD Jetting Eye - a section of water channel with upstand which includes a flexible 35mm internal diameter inspection/cleaning/maintenance port
Visqueen CD 50mm Outlet - a unit that connects a water channel to a 50mm diameter waste pipe

POLYETHYLENE SUMPS, PUMPS, CONTROL PANELS AND ALARM SYSTEMS
A wide range of systems are available. For further guidance contact Visqueen Technical Support.

Approvals and standards

- Suitable for use as part of a Type C (drained) waterproofing protection system to BS 8102:2022
- 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 14001:20155

Usage

Type C waterproofing is defined in BS 8102:2022 as ‘drained protection’. This is achieved by the incorporation of a drained cavity within the below ground structure. The walls and floor must provide enough primary resistance to water ingress to ensure the cavity only accepts a controlled amount of water or dampness. Water is collected in the cavity, between the external wall/floor and an internal lining (cavity membranes), and diverted to a suitable drainage point.

Visqueen Cavity Membrane System Components are a range of tapes, fixings, drainage components, sumps, pumps, control panels and alarms for use with Visqueen CM8 Membrane and Visqueen CM20 Membrane systems.

Storage and handling

Store in warm, dry and cleVisqueen Cavity Membrane System Components should be stored upright, under cover in a dry clean environment and in their original packaging.

Care should be taken when handling the system components in line with current manual handling regulations.an environment in its current packaging. The tape should not be exposed to long periods of ultraviolet light.

Preparation

Prior to application of Visqueen CM8 Membrane or Visqueen CM20 Membrane, all concrete surfaces must be sealed with Visqueen CM Anti-Lime Sealer (see product datasheet for further guidance).

Installation

MEMBRANE FIXINGS & SEALS
V20 Sealing Rope - Individual sheets of Visqueen V20 are joined together with Visqueen Sealing Rope. The sealing rope is positioned between the two stud formations along the edge of the membrane to be overlapped and remove the release paper. Lift the next sheet of V20 membrane over the two interlocking studs and press the overlapping membrane down onto the sealing rope.

CAVITY MEMBRANE TAPES AND FIXINGS
For use of the tapes and fixings, see Visqueen CM8 Membrane and Visqueen CM20 Membrane product datasheets.

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CAVITY DRAIN COMPONENTS
Visqueen CD Water Channel is a 2m length of drainage channel which should be fitted around the periphery of an internal floor at the vulnerable wall/floor junction and where necessary across the floor area to link the perimeter drainage channel to the sump. Any water entering the building through walls or curved soffits is controlled behind the wall membrane and enters the water channel through the pre-drilled 19mm holes before being diverted to the sump and mechanical pump, or natural drainage point. The water channel is supplied with or without an upstand. The water channel with upstand is used at the wall/floor junction. The water channel without upstands is used as a cross-floor water channel.

Visqueen CD Universal Channel is a section of water channel without upstand and with a 100mm bottom outlet that fits into ‘pop-up’ pipework running through or under the floor slab, ensuring that water runs as quickly as possible directly to a sump. Also includes an inspection/cleaning/maintenance port which can be cut down to suit floor finishes. Can be used with both types of Visqueen CD Water Channel.

Visqueen CD Jointing Section is a push fit unit that connects two sections of a water channel.

Visqueen CD Stop End is a push fit end cap for the water channel that restricts the flow of water from the end of the water channel.

Visqueen CD Swept Corner is a push fit unit that connects two sections of water channel at a corner junction.

Visqueen CD T Piece is a push fit unit that connects three sections of water channel at a three way T junction.

Visqueen CD Jetting Eye is a section of water channel with upstand and includes an inspection/cleaning/maintenance port. The unit is typically installed at 10-12m intervals along runs of water channel and adjacent to corners and changes of direction.

Visqueen CD 50mm Outlet is a push fit end cap for the water channel that allows the water channel to connect to a 50mm diameter ABS waste pipe.
CD (Cavity Drain) Corner Strip - When linking the V8 wall membrane to the V20 floor membrane, this can be achieved using Visqueen Corner Strip. The vertical and horizontal membranes should be butt jointed at the base of the wall. Visqueen Corner Strip is folded in half along the length of the piece to be used to create the 90 degree angle. Once correctly aligned, carefully pull off the backing paper and press firmly out with the palm of the hand onto the floor and wall membranes.

Masonry Plugs - Fixings are made through the Visqueen V8 Wall Membrane into 10mm holes drilled through the studs to a minimum depth of 75mm (use punch). Visqueen Masonry Plugs, to which Visqueen Sealing Rope has been applied around the rim, are inserted into the holes and tapped flush with the membrane. The fixings are normally required at 1m centres, and should be staggered. Fixings are also required immediately either side of the laps.

CONTROL PANELS AND ALARMS
All Visqueen pumps and alarm systems are versatile which enables installers to locate inlets to suit on-site requirements. Please consult Visqueen technical team on appropriate selection and placement.

WATER CHANNEL ACCESSORIES
Water channel - the water Channel is a 2m length PVC drainage conduit which should be fitted around the periphery of an internal floor at the vulnerable wall/floor junction. Any water entering the building through walls or curved sofits is controlled behind the membrane and enters the channel through the pre-drilled 19mm holes before being diverted to the mechanical (sump and pump) or natural drainage point. Standard Water Channel is supplied with an up-stand that is placed against the wall, however it can be supplied without the up-stand if required.

Universal Channel Outlet/ Drain - a moulded connector piece with 110mm bottom outlet to fit into ‘pop-up’ pipework running through or under the floor slab, ensuring that water runs as quickly as possible, directly back to a sump. Also functions as an inspection port.

Water Channel End Outlet - Clips on to the end of the water channel run and provides conversion to 50mm solvent weld ABS waste pipe. Used with gravity fed drainage or as one of at least two connections to a sump.

Water Channel Corner Piece - A smooth 90° bend, fully swept corner connector that ensures that water flows easily, and inspection cameras or flushing hoses can negotiate the change of direction without snagging.

Water Rodding Eye - used to provide cleaning, inspection, and maintenance access to the water channel system. Typically installed at 10-12m intervals along runs of channel and adjacent to corners and changes of direction. The large stub opening on the topside of the 170mm channel piece accepts 50mm solvent weld ABS waste pipe which can be configured with commonly available elbows, bends and end caps.

Water Channel Connector - A small connector piece to link two lengths of Water Channel conduit.

Water In-line T-Piece - an in-line connector piece that allows the main run of water channel to connect at right angles to a secondary ‘arm’ of cross-floor water channel (without upstand) and drain across the surface of the floor to an offset or centrally placed sump chamber. T Pieces can also provide a connection link between parts of the main water channel run, to create shortcuts especially in awkwardly shaped basements.

Usable temperature range

It is recommended that the Visqueen Cavity Membrane System Component tapes should be installed above 5°C.

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Additional information

In accordance with BS 8102 (2009), Type C drain protection waterproofing systems should be maintained.

The service period, usually every 6 –12 months, should be agreed at the outset with the installing contractor or a specialist pump servicing company.

Visqueen can provide details of such companies on request.In accordance with BS 8102:2022, Type C drain protection waterproofing systems should be maintained. The service period, usually every six to twelve months, should be agreed at the outset with the installing contractor or a specialist pump servicing company.

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.

System components calculator	Brick plugs (200 per box)	V8 D/sided Sealing Tape	V20 Sealing rope
Visqueen V20 Floor Membrane (40m²)	n/a	n/a	5 rolls
Visqueen V8 Wall Membrane (40m²)	5 per m² (2 boxes)	1 roll	2 rolls

Health and safety information

Please refer to the Visqueen Cavity Membrane System Components product 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.

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.

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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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