

Visqueen V8 Wall Membrane

Features and benefits

- Prime HDPE - robust studded wall membrane
- Multi-use - suitable for new, existing and retrofit build projects
- Large roll formats with flanged edges for jointing - quick and easy to install
- BBA certified - third party certification
- Type C membrane (drained protection) - part of a cavity drainage system in accordance with BS 8102:2009
- Pliable - can be bent round corners and projections without risk of breaking.
- Sealed system - meets the requirements for radon protection

Product description

Visqueen V8 Wall Membrane is a 0.5mm thick high density polyethylene (HDPE) profiled sheet with approximate 7 mm high studs.

The membrane is supplied in large format rolls of 2.07m x 20m with a 70mm flange edge on one side to aid jointing.

Approvals and standards

- Third party certification - BBA Certificate No. 21/5867
- CE Mark EN 13967
- Suitable for use as part of a Type C (drained) waterproofing protection system to BS 8102:2009
- Quality Management System ISO 9001:2015

Usage

Type C waterproofing is defined in BS 8102: 2009 as 'drained protection'. This is achieved by the incorporation of a drained cavity within the basement structure. The basement wall 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 and an internal lining (cavity drain membrane), and diverted to a suitable drainage point.

Visqueen V8 Wall Membrane is used as an internally applied vertical waterproofing drainage layer and forms part of a Visqueen cavity drain system. The membrane is typically used as a vertical waterproofing drainage layer for basements, sub structures and retaining walls within new, existing and retrofit build projects. The membrane can also be used for heritage buildings, conservation projects and vaulted ceiling.

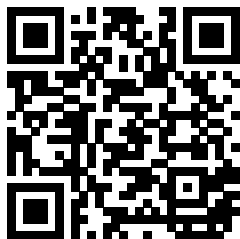
When used as part of a Visqueen cavity drain system, Visqueen V8 Wall Membrane is suitable for structures requiring Grades 1, 2 or 3 waterproofing protection.

The cavity drain system can also be used in conjunction with Visqueen Type A or Type B waterproofing protection systems where combined protection is required.

System components

- Visqueen Cavity Drain System Components

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Visqueen V8 Wall Membrane

Storage and handling

Visqueen V8 Wall Membrane should be stored upright, under cover in a dry clean environment and in its original packaging.

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

Preparation

All surfaces should be firm, sound and free from obstructions which would hamper free drainage. Defects that might result in unacceptable water ingress in the wall structure should be repaired before the system is installed. Lime based and gypsum based plasters, wallpaper and any embedded timber must be removed as these materials can deteriorate over time in the presence of moisture.

All surfaces should be pre-treated with Visqueen Anti-Lime Coating to reduce the risk of leaching of free lime or mineral salts and to avoid the obstruction of the drainage system. Defective mortar joints should be raked out and made good with suitable mortar mix for the conditions/location. Structural timber elements e.g. frames and lintels should be removed to avoid the potential for dry or wet rot to spread to the brickwork; seek guidance or check with the project structural engineer before removing. Surfaces should be smooth and free from sharp protrusions.

Visqueen V8 Wall Membrane can be cut with a retractable safety knife or robust scissors.

Installation

Installation of the Visqueen V8 Wall Membrane is ideally commenced at the top of the wall with studs against the wall. Ensure the membrane is installed plumb therefore aiding the installation of the internal lining.

Fixings are made through the membrane into 10 mm holes drilled through the studs to a minimum depth of 75mm (using a 10mm diameter masonry drill bit). 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 (use punch where necessary). The Visqueen Sealing Rope forms a sealing gasket between the plug and membrane. The fixings are normally required at 1m centres, and should be staggered. Fixings are also required immediately either side of the laps. Flanged edges should always be positioned in front of, and overlapping, the previously installed membrane width.

Laps

Laps with flanged edges are bonded using Visqueen V8 Double Sided Sealing Tape, and laps without flanges are interlocked with the outer edge covered with Visqueen CD Corner Strip. Where there are services such as pipes, ducting or steel stanchion that protrude through walls or floors, the membrane should be carefully cut and trimmed around the obstacle and sealed using Visqueen Sealing Rope and Visqueen CD Corner Strip material.

Wall/Floor Junctions

Seal junctions of Visqueen V8 Wall Membrane and Visqueen V20 Floor Membrane with Visqueen CD Corner Strip. The vertical and horizontal membranes should be butt jointed at the base of the wall. Visqueen CD Corner Strip should be 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 onto the floor and wall membranes.

Water Management

A drainage system of suitable capacity should be provided to collect and dispose of the infiltrating water. The system must be maintainable and inspected at regular intervals. Please contact Visqueen Technical Support team for further information.

Usable temperature range

It is recommended that Visqueen V8 Wall membrane and system components should be installed above 5°C.

Additional information

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.

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Characteristic	Test method	Units	Compliance criteria	Value or statement
Dimensions		m		2.07 x 20
Stud height		mm		6.5
Mass	EN 1849-2	kg/m ²	-10%/10%	0.45
Air gap volume		l/m ²		4
Drainage capacity (approx.)		l/m ²		3.8
Max compressive strength		kN/m ²		150
Resistance to deformation under load (max) @ 50kN/m2		%		30
Linear coefficient of thermal expansion		mm/m.°C		0.18
Watertightness	EN 1928	-	Pass/Fail	Pass @2kPa
Durability after artificial ageing	EN 1847	-	Pass/Fail	Pass
Durability against chemicals	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (min.)	EN 12310-1	N	>	290
Water vapour resistance properties (m)	EN 1931	Sd	-25%/25%	380
Resistance to static loading	EN 12730	kg	>MLV	Pass @ 20 kg
Resistance to Impact method A	EN 12691	m	MDV	Pass @ 0.25
Reaction to fire	EN 13501-1		Class	F
Joint strength	EN 12317-1	N	>	55
Tensile properties - MD	EN 12311-2	N/50 mm	>	340
Tensile properties - CD	EN 12311-2	N/50 mm	>	225

Health and safety information

Please refer to Visqueen V8 Wall Membrane material safety datasheet (MSDS)

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About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website (www.visqueen.com) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



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Tapes



Damp Proof Course



Stormwater



Vapour Control

Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

Visqueen PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

Visqueen Training Academy

Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.