

V20 Floor Membrane BS8102 Type C Cavity Drain System



- A high quality robust HDPE studded membrane
- Suitable for new, existing and retrofit build projects
- Quick and easy to install flooring membrane
- BBA Approved
- BS8102 Type C cavity drain protection

Description

Visqueen V20 Floor Membrane is a 1mm thick high density polyethylene (HDPE) profiled sheet with 20mm high studs. The membrane is an integral part of Visqueen's Cavity Drain System which effectively acts as a below ground water management system. The membrane is supplied in rolls of 2m x 20m and is black in colour.

Application

The membrane is used as a floor membrane as part of the Visqueen Cavity Drain System. The membrane can be used in vertical (wall) applications where a higher drainage capacity is required or complex convoluted wall shapes. The system is typically used for internally tanking basements within new, existing and retrofit build projects. The system can also be used for heritage buildings and in conservations projects.

In accordance with Type C structures (as classified in BS8102:2009), when applied and installed correctly, the Visqueen Cavity Drain System is capable of providing the levels of protection required for Grades 1, 2 & 3 basements. Examples of use of structure for Grade 1 include car parks; Grade 2 - plant rooms; and Grade 3 are living areas such as residential and offices.

The product can also be used in conjunction with Type A or B protection where additional combined protection is required.

BS8102:2009

The Basement Information Centre has produced an excellent general guidance document for BS8102:2009 Basement Waterproofing. The publication examines the factors to consider when deciding the form of basement waterproofing, designs and the characteristics of the main types of waterproofing solutions. For more information on BS8102:2009 [please click here](#).

All construction should conform with the Building Regulations, Codes of Practice and British Standards in current use at the time the building is being constructed. In particular it is recommended that reference is made to BS 8102:2009 and Visqueen's BBA certificate.

Preparation

All surfaces: Should be firm, and free from obstructions, which would hamper free drainage. Defects that might result in unacceptable leaks should be remedied before the system is installed.

Concrete 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.

Vertical Wall Application



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Installation of the membrane is commenced at the top of the construction with “studs down” against the wall. For horizontal joints, the lower membrane is always positioned in front of the upper membrane. Membrane from rolls should be overlapped by 2 studs and sealed using Visqueen Sealing Rope placed between the two rows of studs.

Fixings are made through the membrane into 10 mm holes drilled through the studs. 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 Visqueen Sealing Rope forms a sealing gasket between the plug and membrane.

Horizontal Floor Applications

Begin at one side of the room and unroll the Visqueen V20 Floor Membrane against the wall membrane with the studs facing down onto the floor and cut the membrane to the desired length or width of the floor, just like laying a carpet. Repeat this exercise till all the lengths/widths required to cover the floor area have been cut allowing for a two-stud membrane overlap.

Overlaps

The individual sheets of membrane that have now been cut, 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.

Foot pressure can be applied by sliding the sole of the foot over the membrane joint, to ensure that the membranes are fully bonded.

Wall/floor junctions

The next stage of the operation is to link the V20 floor membrane to the V8 wall membrane, which 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° 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.

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 on 0333 202 6800 or email enquiries@visqueenbuilding.co.uk. Please also [click here to see Visqueen's full range of accessories](#).

Storage

Rolls of the product should be stored upright when stored over long periods, in a warm dry environment and preferably under cover.

Membrane system components – see separate datasheet for detailed information or [click here](#) Visqueen produce a range of ancillary products for use with V20 Floor membrane which include:

- Visqueen CD Sealing Rope (10mm x 5m) supplied 2 rolls per box
- Bonds V20 Floor membranes together to ensure watertight joint
- Visqueen CD Double Sided Sealing Tape (25mm x 20m)
- Bonds V8 Wall membranes together to ensure watertight joint
- Visqueen CD Corner Strip (150mm x 10m) supplied 2 rolls per box
- A single sided tape to join the Wall/Floor junction (900 angles)



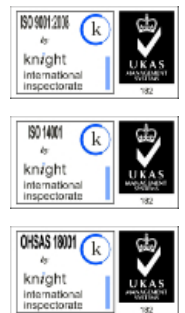
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- Visqueen Masonry Plugs (10mm x 75mm) supplied 100 per box.
- A fixing plug for vertical fixing of the cavity drain
- Anti-Lime Coating supplied in 25L tubs - see separate datasheet or [click here](#)
- Water Channel – see separate datasheet or [click here](#)
- Sumps & Pumps - see separate datasheet or [click here](#)

Technical Data and CE Mark

Visqueen V20 Floor Membrane complies with the requirements and clauses of EN 13967.



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Product Data

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heading	Characteristic	Test method	Units	Compliance criteria	Value or statement
	Dimensions		m		2 x 20
	Stud height		mm		20
	Mass	EN 1849-2	kg/m2	-10%/10%	0.95
	Air gap volume		l/m2		14
	Drainage capacity (approx.)		l/m2		13
	Max compressive strength		kN/m2		200
	Resistance to deformation under load (max) @ 50kN/m2		%		20
	Thermal resistance		m2.C/W		0.17
	Watertightness	EN 1928	-	Pass/Fail	Pass 60Kpa
	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	>	350
	Resistance to tearing (nail shank) CD	EN 12310-1	N	>	
	Water vapour transmission properties	EN 1931	Sd	-25%/25%	550
	Resistance to static loading	EN 12730	Kg	>MLV	Pass @ 20kg
	Resistance to Impact method A	EN 12691	m	MDV	0.85
	Reaction to fire	EN 13501-1		Class	F
	Joint Resistance	EN 12317-1	N	>	35
	Tensile properties - MD	EN 12311-2	N/50 mm	>	530
	Tensile properties - CD	EN 12311-2	N/50 mm	>	500
	Bitumen compatability (Degredation max)		%		15



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Appendix A



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

