VISQUEEN CAVITY DRAIN SYSTEM COMPONENTS DATASHEET

- Pre-treatment
- Membrane Fixings and Seals
- Sumps and Pumps
- Control Panels and Alarms
- Water Channel Accessories
VISQUEEN CAVITY DRAIN SYSTEM

Visqueen produces an extensive range of drainage channels, pumps, sumps and alarms as an integral part of the Visqueen Cavity Drain System. These provide effective mechanical drainage solutions for all below ground structures where a cavity drain system is being installed and is designed to be fully maintainable in accordance to BS 8102, the Code of Practice for protection of below ground structures against water from the ground.

- **PRE-TREATMENT**
  - Anti-lime Coating

- **MEMBRANE FIXINGS AND SEALS**
  - Visqueen V20 Sealing Rope
  - Visqueen V8 Double Sided Sealing Tape
  - Visqueen CD Corner Strip
  - Visqueen Masonry Plugs
  - System Components Calculator

- **SUMPS AND PUMPS**
  - Water Pump Pro (single mains powered pump) including 9v Battery Alarm
  - Water Pump Pro Plus (twin mains powered pumps)
  - Water Pump Pro Plus Battery Back-up System

- **CONTROL PANELS AND ALARMS**
  - Dual Assist Control Panel including floats
  - Telemetric Dialler Alarms

- **WATER CHANNEL ACCESSORIES**
  - Water Channel
  - Water Channel Outlet
  - Water Channel End Outlet
  - Water Rodding Eye in 200mm long channel
  - Water Channel Corner Piece with Rodding Eye
  - Water Channel Connector
  - Water In-line T Piece with Rodding Eye

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**PRE-TREATMENT**

**Anti-Lime Coating**

As part of the preparation process before applying Visqueen’s Cavity Drain Membranes, the anti-lime coating is designed to seal concrete surfaces and to reduce the leaching of ‘free lime’. It will also increase resistance to abrasion and acid concentrates. Supplied ready to use in 25kg drums.

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**MEMBRANE FIXINGS & SEALS**

**V20 Sealing Rope**

Visqueen V20 Sealing Rope is a high performance double-sided butyl rubber tape with excellent adhesion and flexibility properties. The sealing rope is primarily used to bond Visqueen V20 Floor Membranes to ensure a watertight seal. It is used around service pipes and is also applied around the rim of Visqueen Masonry Plugs forming a sealing gasket between the plug and membrane.

**INSTALLATION**

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.

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**V8 Double Sided Sealing Tape**

Visqueen V8 Double Sided Sealing Tape is double sided butyl rubber tape with excellent adhesion properties and flexibility properties. The sealing tape bonds together Visqueen V8 Wall membrane to ensure a watertight seal.

**INSTALLATION**

Flanged edges of the Visqueen V8 Wall Membrane should always be positioned in front of, and overlapping, the previously installed V8 membrane width. Laps with flanged edges are bonded using Visqueen V8 Double Sided Jointing Tape, and laps without flanges are interlocked with the outer edge covered with Visqueen CD Corner Strip.
MEMBRANES FIXINGS & SEALS
CD (Cavity Drain) Corner Strip

Visqueen CD Corner Strip is a single sided butyl rubber self-adhesive tape. The tape is primarily used to seal the 90 degree Floor/Wall junction and sealing around service entry seals such as pipes, ductings or steel stanchions.

INSTALLATION
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

Visqueen Masonry Plugs are made from Polyoxymethylene and are 10mm diameter and 75mm in length. The plug is used in conjunction with Visqueen Sealing Rope around the rim of the plug to effectively form a sealing gasket between the plug and vertically fixed membrane. It is intended for use into soft brick or stone.

INSTALLATION
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.

System Components Calculator

The following table calculates the components required for full roll applications.

<table>
<thead>
<tr>
<th></th>
<th>Brick Plugs</th>
<th>Visqueen V8 Double sided Sealing Tape</th>
<th>V20 Sealing Rope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visqueen V20 Floor Membrane</td>
<td>N/A</td>
<td>N/A</td>
<td>5 rolls</td>
</tr>
<tr>
<td>(40m²)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visqueen V8 Wall Membrane</td>
<td>5 per m² (i.e. 2 boxes)</td>
<td>1 roll</td>
<td>2 rolls</td>
</tr>
<tr>
<td>(40m²)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SUMPS AND PUMPS**

The products and systems described below provide effective mechanical drainage solutions. They are installed in conjunction with cavity drain waterproofing systems in new build and renovation projects. The systems are designed to be fully maintainable, as is a requirement of Type C drain protection in accordance with BS 8102 (2009) - the Code of Practice for protection of below ground structures against water from the ground.

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**Water Pump Pro (single mains powered pump) including 9v Battery Alarm**

- Quick and easy to install
- Maximum head 7m
- Pump capacity 132 litres/minute

Primarily developed for the new build specification market, the Water Pump Pro range is designed to remove ground water from basement cavity drain systems. The Water Pump Pro kit comprises a polyethylene sump which features flanges to key into the placed concrete, a galvanized, locking access cover and one mains powered, submersible sump and a 9v battery alarm. The system is highly versatile and enables installers to locate inlets to suit on-site requirements.

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**Water Pump Pro Plus (two mains powered pumps) including 9v Battery Alarm**

This kit is identical to the Water Pump Pro above but is supplied with two mains powered pumps. These can be plumbed to either a single discharge outlet or to two separate outlets from the sump. The second mains powered pump is located on the raised foot within the chamber and provides back up to the primary pump and additional capacity to the system if required.

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**Water Pump Pro Plus Battery Back-up System**

The Water Pump Pro Plus Battery Back-up system comprises a polyethylene sump, locking access cover, powerful submersible pump and a 24v back up pump and control panel. The system is versatile, and quick and easy to install, enabling inlets to be located to meet the specification and the needs of the installers.

The system is designed for use where primary pump failure, through mechanical fault or loss of mains power, would be catastrophic. The control panel (sold separately) alerts the end user if the water rises above the normal operating level within the sump, and activates the back-up pump via three separate float switches. The control panel contains two trickle charged batteries. The system has a pump capacity of 168 litres per minute, up to a head of 6.5 metres.
CONTROL PANELS AND ALARMS

High level water alarms and control panels, to suit site specific applications, are available for use with our sump and pumps.

Dual Assist Control Panel including floats

Where two mains powered pumps are located within one sump, the Dual Assist Control Panel will alternate their operation and also activate both pumps simultaneously when required. Supplied complete with integral high level water alarm and monitoring counters for each pump which record the number of activations and run times. This unit is designed for high risk areas of potential water ingress.

Telemetric Dialler Alarms

Our telemetric systems are suitable for where the possibility of pump failure through either a pump fault or loss of mains power would be catastrophic. It is designed to alert the end user should a high level condition or loss of power occur.

It notifies the end user by sending a pre-recorded message alerting them of the system fault. The system is available within the majority of our products, it is also available as an add on module that can be retro-fitted to existing products.

IMPORTANT INFORMATION

Pump servicing and maintenance

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.
WATER CHANNEL ACCESSORIES

Cavity Drain systems must be maintainable, and Water Channel is used to facilitate this.

**Water Channel Outlet**
Consists of a 90° PVC bend and a PVC male coupling which is fitted to the base of the Water Channel to allow water to be taken from the conduit to the drainage point.

**Water Channel – 2m lengths**
Designed to be used in conjunction with a cavity drain system, Visqueen Water Channel is a 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 soffits 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.

**Water Channel End Outlet**
Where gravity fed drainage is to be used, the Universal Channel End Outlet has been designed to convert the pentagonal shape of the conduit into a round aperture. This enables water to be discharged from the conduit into a ‘P’ trapped gulley or to a soakaway.

**Water Channel Corner Piece with Rodding Eye**
To be used to join lengths of Water Channel conduit at corners. The Corner Piece includes an option for inclusion of a Rodding Eye.

**Water Rodding Eye in 200mm long channel**
The Water Rodding Eye in 200mm long channel are used to gain access to the system, for inspection and maintenance (cleaning of drainage channel) when required. It is therefore recommended that one of these units is installed at approximately every 10 linear metres along straight lengths of Water Channel. The Rodding Eye comes complete within a 200mm long water channel.

**Water Channel Connector**
A connector to link two lengths of Water Channel conduit.

**Water Channel In-line T-Piece with Rodding Eye**:
Enables teeing off of the conduit to dissect the floor or to discharge to a centrally located sump.
REGIONAL TECHNICAL SUPPORT

For more than 50 years Visqueen Building Products, part of British Polythene Industries PLC, has been recognised as the leader in the development and supply of high performance construction products including damp proof membranes, damp proof courses and gas protection systems.

For technical assistance please contact the Visqueen Technical Support team.

Contact Visqueen Customer Service

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