

RIW CAVITY DRAIN ANCILLARIES

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CAVITY DRAIN ANCILLARIES

BRICK PLUG

Brick Plug is a plug of Polyacetal; 10mm diameter with a length of 75mm.

It is intended for use into soft brick or stone, which is pre-drilled to a minimum depth of 90mm, from the surface of the Cavity Drain membrane with a drill bit of 10mm diameter.

Brick Plug has a head of diameter 30mm, which is cone shaped, like the back face of the membrane's stud. This gives an excellent transfer of loading from the membrane to the base structure.

There is a 5mm hole, in the shank of the plug, for fixing the next layer onto the membrane, using a screw of diameter 5 to 6mm, with a screwing-in depth of 30mm maximum.

This may be with either timber battens, as part of a dry lining system, or screw-in type brick ties if a masonry lining wall is required.

APPLICATION

Used with Sealing Rope to provide a sealed fixing through Cavity Drain R20 and Cavity Drain R7.

PACKAGING

Brick Plug	100 No. per box
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SEALING ROPE

Sealing Rope is a blend of butyl and other rubbers, which has good adhesion to most common surfaces, whilst having good movement capability.

Sealing Rope is used to provide a seal between overlapping sheets of Cavity Drain R20 & R7, and around service entry pipes, etc.

Sealing Rope is also used to provide a gasket around the fixings for Cavity Drain R20 & R7, as well as Plaster Drain.

APPLICATION

All surfaces should be clean, dry, and free from frost, grease and loose material.

PACKAGING

Sealing Rope	10mm diameter x 5m long rolls
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SEALING TAPE

Sealing Tape is a blend of butyl and other rubbers, which has good adhesion to most common surfaces, whilst having good movement capability.

Sealing Tape is used to provide a seal between 'flanged' overlaps of Cavity Drain R7.

APPLICATION

All surfaces should be clean, dry and free from frost, grease and loose material.

PACKAGING

Sealing Tape	30mm wide x 2mm thick x 20m long rolls
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OVERTAPE

Overtape is a self-adhesive tape, based on a blend of butyl and other rubbers, which has excellent adhesion and will adhere to most common surfaces whilst having good movement capability.

Overtape comprises a silicone release paper, white adhesive base and an aluminium lead look top surface. Overtape is used at wall/floor, wall/wall and wall to soffit junctions, as well as for sealing around pipe penetrations, etc. Overtape is also used with Cavity Drain R7 to seal over non-flanged laps.

It is recommended that if cavity drain systems are used as a radon barrier, all lap joints in the Cavity Drain R20 and R7 must be sealed internally with Overtape.

APPLICATION

The product can be easily cut with a craft knife or similar. All surfaces should be clean, dry, and free from frost, grease and loose material. Remove silicone release paper and apply.

PACKAGING

Overtape	150mm wide x 10 metres long rolls
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CAVITY DRAIN PRODUCT CALCULATOR FOR FIXINGS

COMPONENTS REQUIRED FOR FULL ROLL APPLICATIONS

WALLS			
Membrane	Brick Plugs	Sealing Tape	Sealing Rope
Cavity Drain R20 2.0x20m roll	5 No. per m ² ie. 2 boxes	---	6 No. rolls
Cavity Drain R7 2.07x20m roll	5 No. per m ² ie. 2 boxes	1 No. roll	2 No. rolls
FLOORS			
Cavity Drain R20 2.0 x 20m roll	---	---	5 No. rolls

In addition to these components, Overtape will be required, as follows:

CAVITY DRAIN R20

Overtape is used at wall/floor, wall/wall and wall to soffit junctions. It is also used around service penetrations and for sealing over joints when required. Other materials are also adhered to the Cavity Drain products using Overtape.

CAVITY DRAIN R7

Overtape is used at wall/wall and wall to soffit junctions, and outside non-flanged laps. It is also used around service penetrations and for sealing over joints when required. Other materials are also adhered to the Cavity Drain products using Overtape.

Please refer to Cavity Drain R20 & R7 data sheets for further information.

The information above is based on our experience, and is offered for guidance only.

RIW SUMPS & PUMPS

The following products provide effective mechanical drainage solutions for all below ground structures, where a Cavity Drain system is being installed. The products were developed specifically for the specification market, and are designed to remove ground water ingress from below ground structures. The drainage solutions must be fully maintainable, which is a requirement for Type C (drained) protection, as outlined in BS8102: 2009 Code of practice for protection of below ground structures against water from the ground.

AQUA PUMP PRO

Aqua Pump Pro comprises a polyethylene sump, locking access cover and powerful submersible pump. 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 has a pump capacity of 132 litres per minute, up to a head of 7 metres.

AQUA PUMP PRO PLUS

Aqua Pump Pro Plus is identical to the Aqua Pump Pro above, but is supplied with two mains powered sumps. These can be plumbed to either a single discharge outlet, or to two separate outlets from the sump. The second pump is located on the raised foot in the sump chamber, and provides back-up to the primary pump as well as additional capacity to the system should it be required.

The system has two pumps, each with a capacity of 132 litres per minute, up to a head of 7 metres.

AQUA PUMP PRO BATTERY BACK-UP SYSTEM

Aqua Pump Pro 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 180 litres per minute, up to a head of 6.5 metres.

RIW CONTROL PANEL & ALARMS

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

DUAL ASSISTED CONTROL PANEL

This unit is designed for high risk areas of potential water ingress.

Where two mains powered pumps are located within one sump, this panel will alternate their operation, as well as activating both pumps simultaneously when required. It is complete with an integral high level water alarm and monitoring counters for each pump which records the number of activations and running time.

HIGH LEVEL ALARMS

To meet individual project requirements, a range of alarms including 9v battery operated alarms, mains powered alarms, mains/battery powered alarms (both BT landline and SMS versions). All the alarms include audio and visual indicators, mute button and independent float activation.

SINGLE PUMP MONITOR/ALARM

An integral high level audible/visual mains alarm, which is activated by the pump's float mechanism within the sump. It records each time the pump activates, and the length of time it is running ; which is ideally suited where unknown levels of water ingress occur, and also to monitor changes in the level of water ingress between services.

RIW AQUA CHANNEL

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

AQUA CHANNEL

Aqua Channel is a PVC drainage conduit which is designed to control water ingress into below ground structures. It is generally fitted around the perimeter of the floor, at the vulnerable wall/floor junction, and is suitable for use with Cavity Drain, waterproof membranes and coatings.

Water entering the structure through the wall is controlled behind the Cavity Drain system, and diverted down through the Aqua Channel at the base of the wall. Water enters the Aqua Channel through pre-drilled drainage holes, before being diverted to a suitable drainage point, either gravity fed or a sump and mechanical pump.

As a general rule, a minimum of one sump/discharge point is required for every 50 linear metre run of Aqua Channel. A minimum of two discharge points/outlets from the Aqua Channel should be provided to any sump or drainage system.

AQUA CHANNEL OUTLET

Aqua Channel Outlets consists of a 90° PVC bend and a PVC male coupling (with swivel action) fitted into the base of a short length of Aqua Channel. This allows water to be taken from it to the water collection point (sump and pump) via a 40mm diameter solvent welded PVC pipe.

AQUA CHANNEL END OUTLET

Aqua Channel Outlet's are used when gravity fed drainage is available. This outlet has a sealed end, with a 40mm diameter outlet pipe, which allows water to be discharged into a 'P' trap gully or soakaway.

AQUA CHANNEL CLEANING PORT

Aqua Channel Cleaning Ports are used to gain access to the system, for inspection and maintenance when required. It is therefore recommended that one of these units is installed at approximately every 12 linear metres along straight lengths of Aqua Channel.

AQUA CHANNEL CORNER PIECE

Aqua Channel Corner Pieces are used at changes in direction of the Aqua Channel. These units are used in conjunction with the Cleaning Ports for maintenance.

AQUA CHANNEL IN-LINE 'T' PIECE

Aqua Channel In-line T Pieces are used to 'tee-off' the Aqua Channel where it is required to dissect the floor or to discharge to a centrally located sump. These units are also used in conjunction with the Cleaning Ports for maintenance.

AQUA CHANNEL CONNECTOR

Aqua Channel Connectors are used to connect two pieces of Aqua Channel together.

The information in this literature was correct at the time of going to press. However, we are committed to continually improving our products and reserve the right to change product specifications.

For the latest information, please consult RIW. Conditions of use are beyond our control, therefore we cannot warrant the results to be obtained.

RIW

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