

# PERIMETER CHANNEL DRAINAGE SOLUTIONS



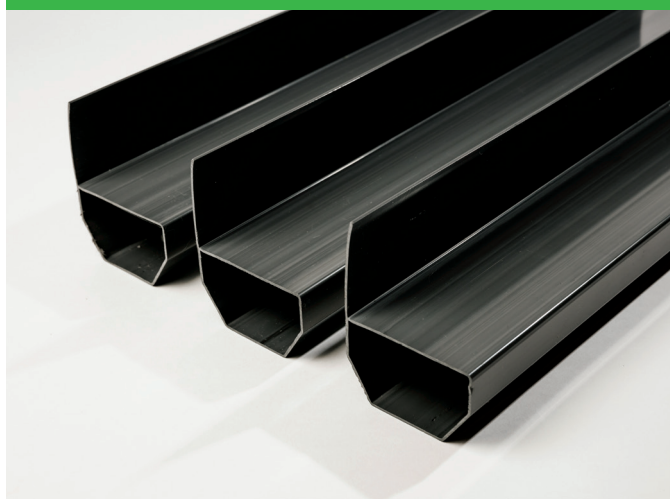
**FOR CAVITY DRAIN MEMBRANE SYSTEMS**

## DRAINAGE CHANNEL

Wykamol perimeter channel, which is a PVC drainage conduit specifically designed for the control of water ingress in below ground situations. It is installed at vulnerable wall/floor junctions to the soil retaining walls or, around the perimeter of the floor slab to be used in most waterproofing situations. It is particularly suited for use in conjunction with Wykamol Cavity Drain Membrane Systems.

Water entering the building through the wall is controlled behind the Wykamol Membrane and diverted to the perimeter channel at the base of the wall. The water enters the perimeter channel through pre-drilled drainage holes and must then be diverted to a suitable drainage point, either natural or mechanical. Perimeter drainage should be set dead level and not to a fall.

### Waterguard



The Wykamol Waterguard Drainage Channel is a PVC drainage conduit for the control of water ingress in below-ground waterproofing situations. Wykamol Waterguard has a flange up-stand and is fitted around the perimeter of the floor at the vulnerable wall to floor junctions, directing any ingress of water towards a sump chamber or drain.

- Quick and easy to install.
- Pre-drilled drainage holes.
- Can detail around corners using waterguard ancillaries.
- Tough and durable.
- Part of a complete Type C cavity drain membrane system for waterproofing below-ground structures in line with BS8102:2022

### FloorDrain

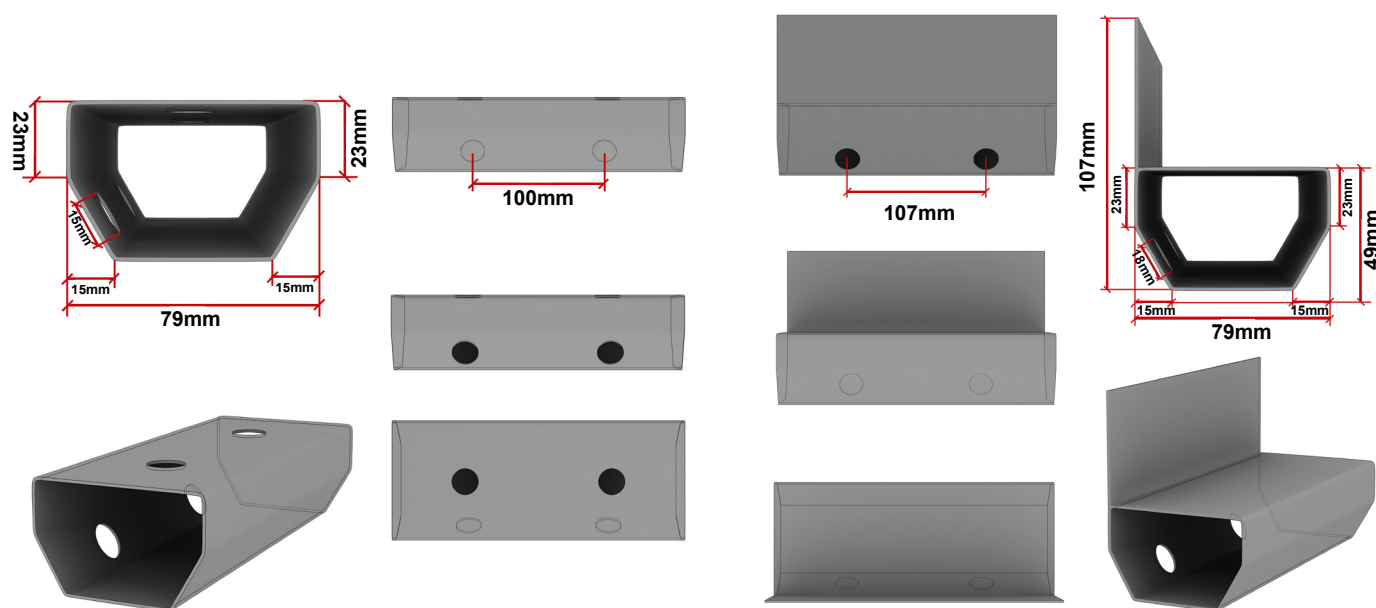


The Wykamol Floor Drain Channel is a PVC drainage conduit for the control of water ingress in below-ground waterproofing situations. Wykamol Floor Drain is flangeless (no up-stand) and can be fitted across the centre of the basement floor, directing any ingress of water towards a sump chamber or drain.

- Quick and easy to install.
- Pre-drilled drainage holes.
- Can detail around corners using waterguard ancillaries.
- Tough and durable.
- Part of a complete Type C cavity drain membrane system for waterproofing below-ground structures in line with BS8102:2022.



There are a number of ways to design drainage conduits into your Type C cavity drain system, the most typical are listed below. We would advise that all new concrete slabs be designed by a structural engineer to the required thickness and specification.



## DRAINAGE DESIGN

1. Pre-formed channel into the new concrete slab
2. Forming a channel into existing concrete slabs
3. Forming a channel on to the concrete slab using specialist Wykamol High Load closed cell insulation
4. Forming a channel on to the concrete slab using a sacrificial screed
5. Forming a channel on to the concrete slab using an engineering brick (or similar) with open perpendicular joints
6. Pre-formed channel in to the new concrete, but off-set from the wall/floor junction
7. Forming a channel on to the concrete slab using a waterproof bund

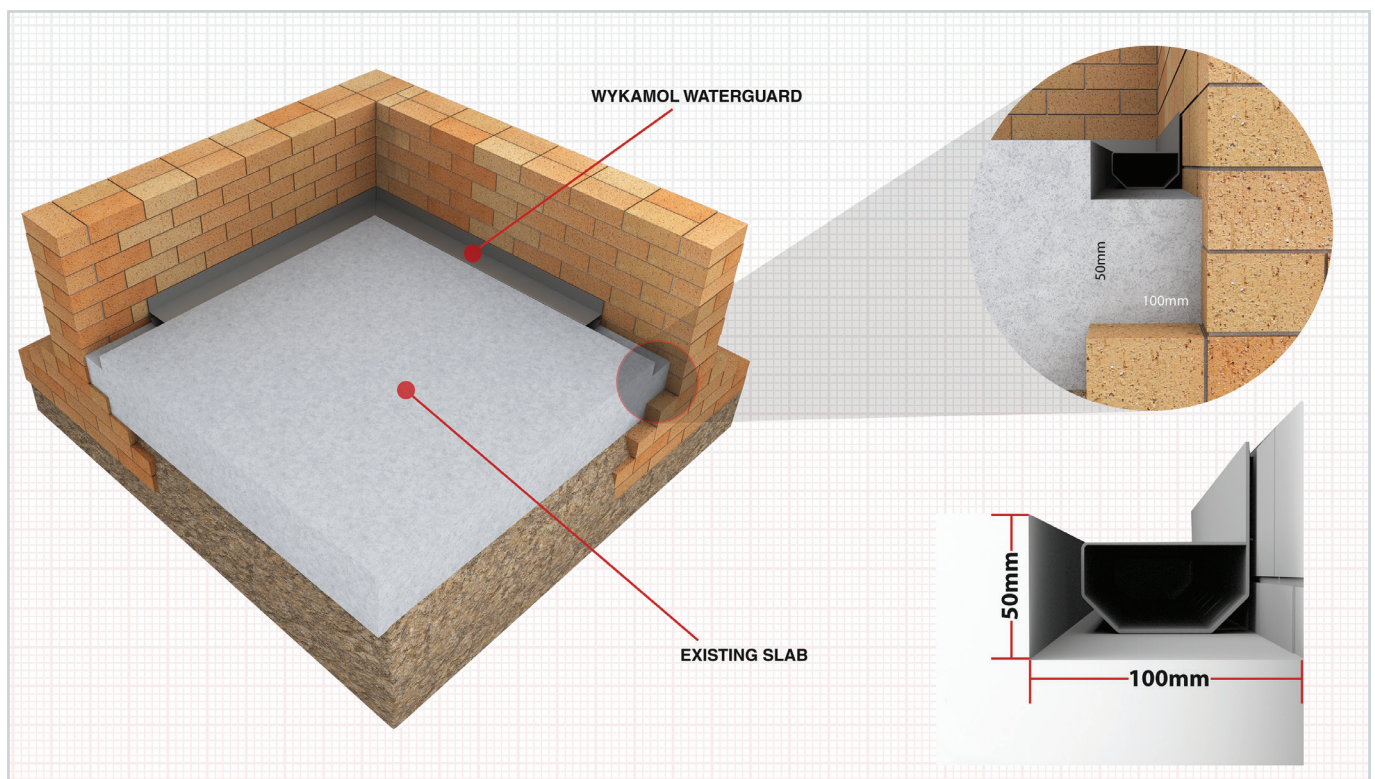
# ▼ DRAINAGE SYSTEMS

## PERIMETER CHANNEL SOLUTIONS

### 1. Pre-formed channel set into new concrete.

The pre-formed channel would normally be formed at the wall/floor junction to the soil retaining walls 100mm wide x 50mm deep, using a length of timber as the shutter. Other materials can be used, but the key is to set the shutter level. One way of achieving this is to use 90-degree angle brackets, fixed to the timber and wall substrate. The new concrete can be poured

under the timber shutter and level with the top of the timber shutter. When the concrete is dry, remove the brackets and timber: you now have a level pre-formed channel at the correct width and height. Please take into account that further shuttering may be required for the pipe work to the sump station or natural drainage points.

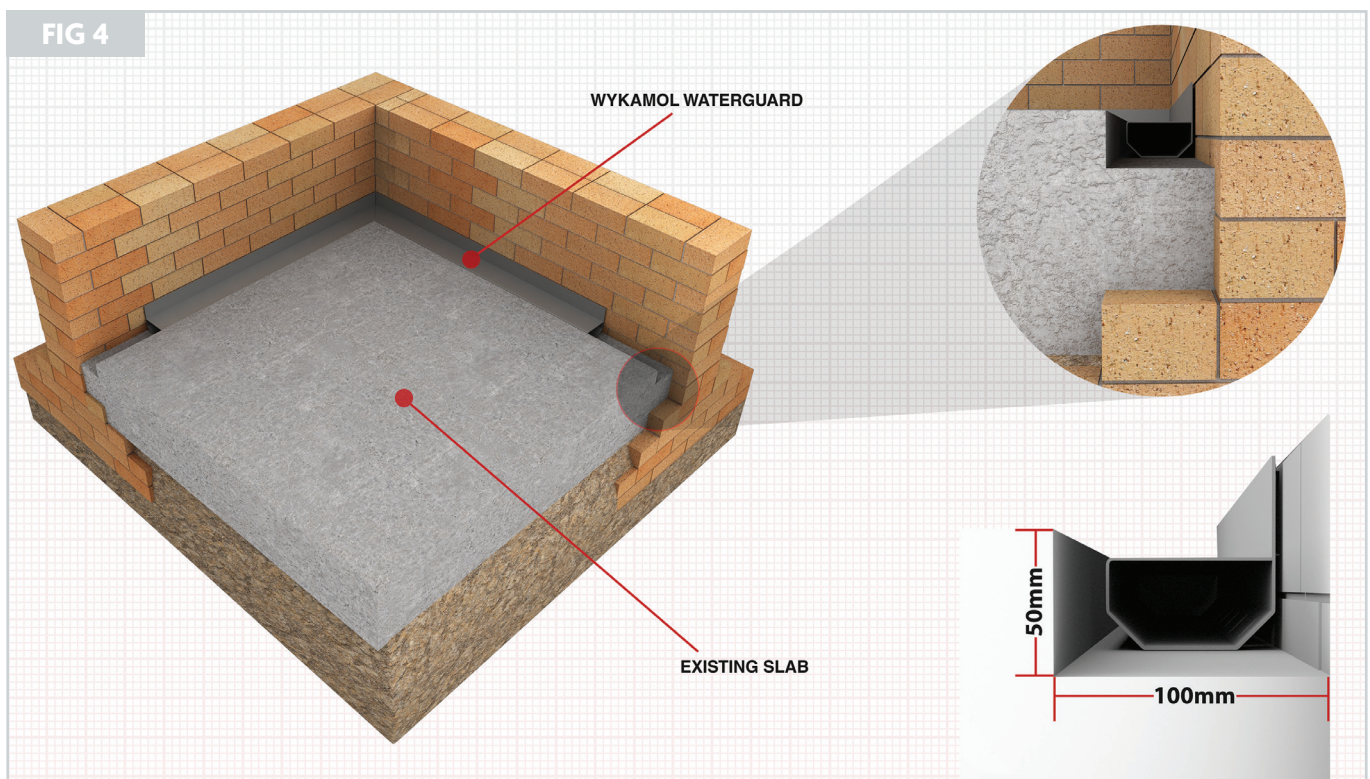




## 2a. Forming a channel into existing concrete slabs.

A survey should be carried out by a structural engineer to the existing concrete slab. Once the engineer has passed the slab with the knowledge that the specialist contractor will be cutting in to the slab at the wall/floor junction to form a drainage channel, the works below can proceed. To form the channel, cut out approx. 100mm wide x 75mm deep (cutting out exactly

50mm may not be possible) at the wall/floor junction. Install the Wykamol Waterguard channel level. You may need to set the Waterguard channel on clean washed shingle or stone to achieve a level setting - **Do not use gravel**. Care must be taken to ensure you do not cut through the slab completely. If the slab is cut completely through, please use method **2b**. below.





## PERIMETER CHANNEL SOLUTIONS

If the existing concrete slab has been cut completely through, dig further down into the oversite and under the slab and infill with concrete. This will help form primary resistance to slow any water ingress that the existing slab was achieving before cutting through.

**NOTE:** In some instances, by cutting through the slab, water ingress may be too severe to slow the water ingress using the method on the next page (**Method 3**). In this case a wider section of slab may need to be installed and tied in to the existing slab, or a new concrete slab may be required. A structural engineer should be consulted.

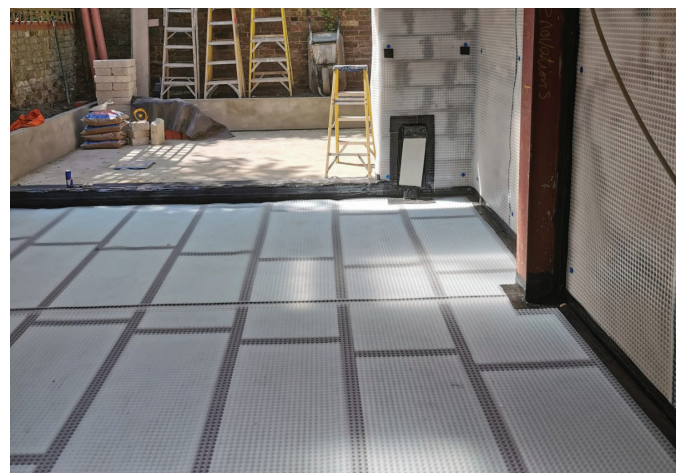
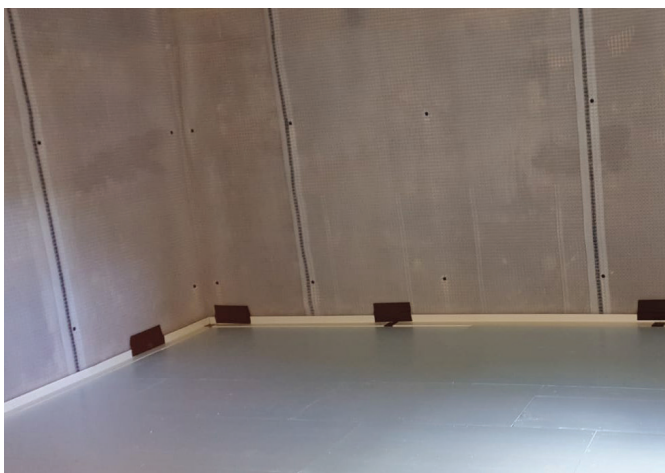
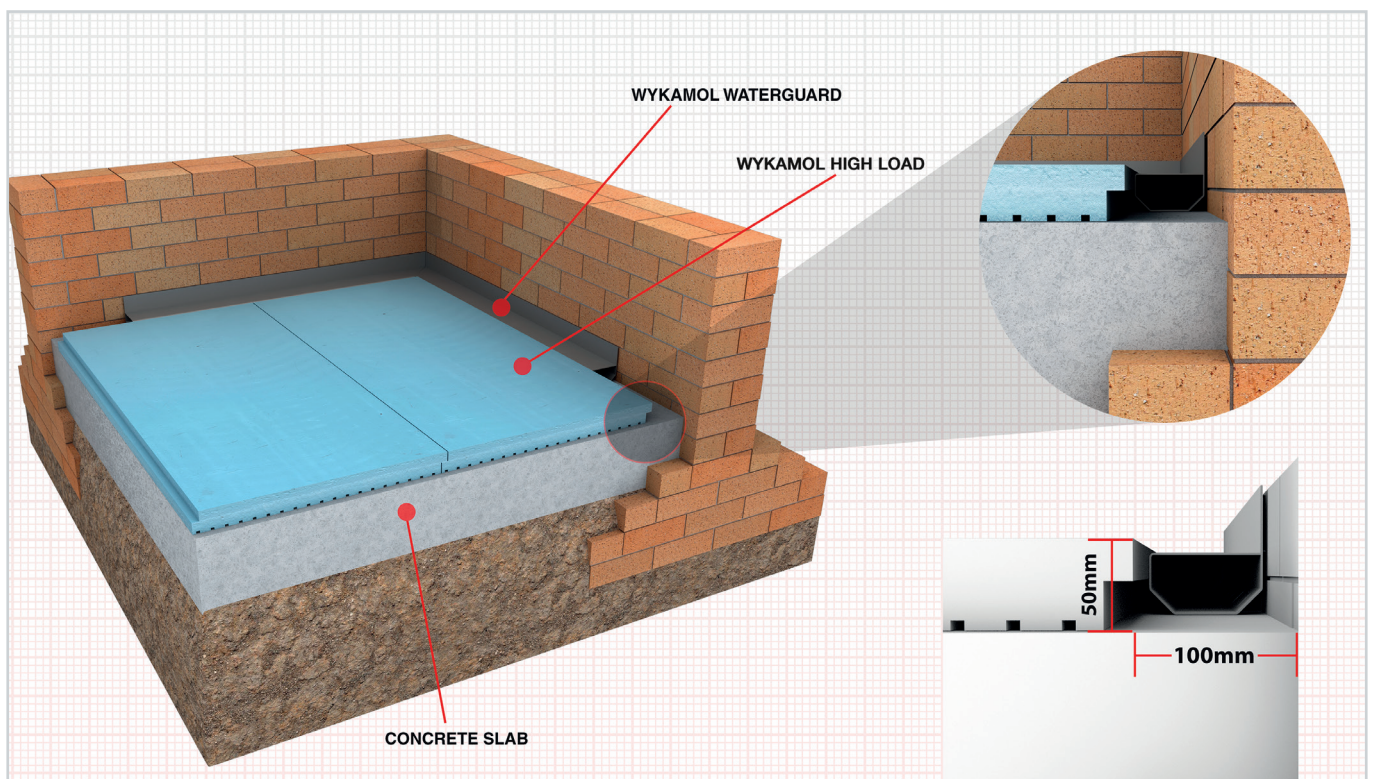




### 3. Forming a channel onto the concrete slab using specialist Wykamol High Load closed cell insulation.

Install the Wykamol Waterguard channel level at the wall/floor junction to the soil retaining walls. Install the 50mm Wykamol High Load insulation/spacer over the slab, abutting the

Waterguard channel. If required the High Load insulation/spacer can be fixed to the slab using Wykamol 110mm Cob fixings and tape/seal to all joints. Install 65mm screed on top.





# ▼ DRAINAGE SYSTEMS

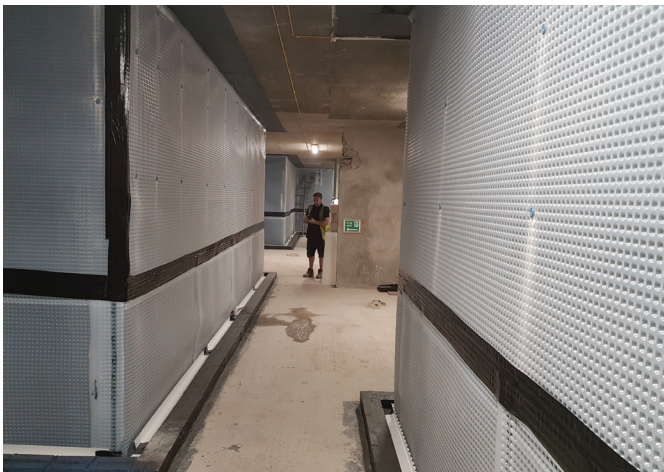
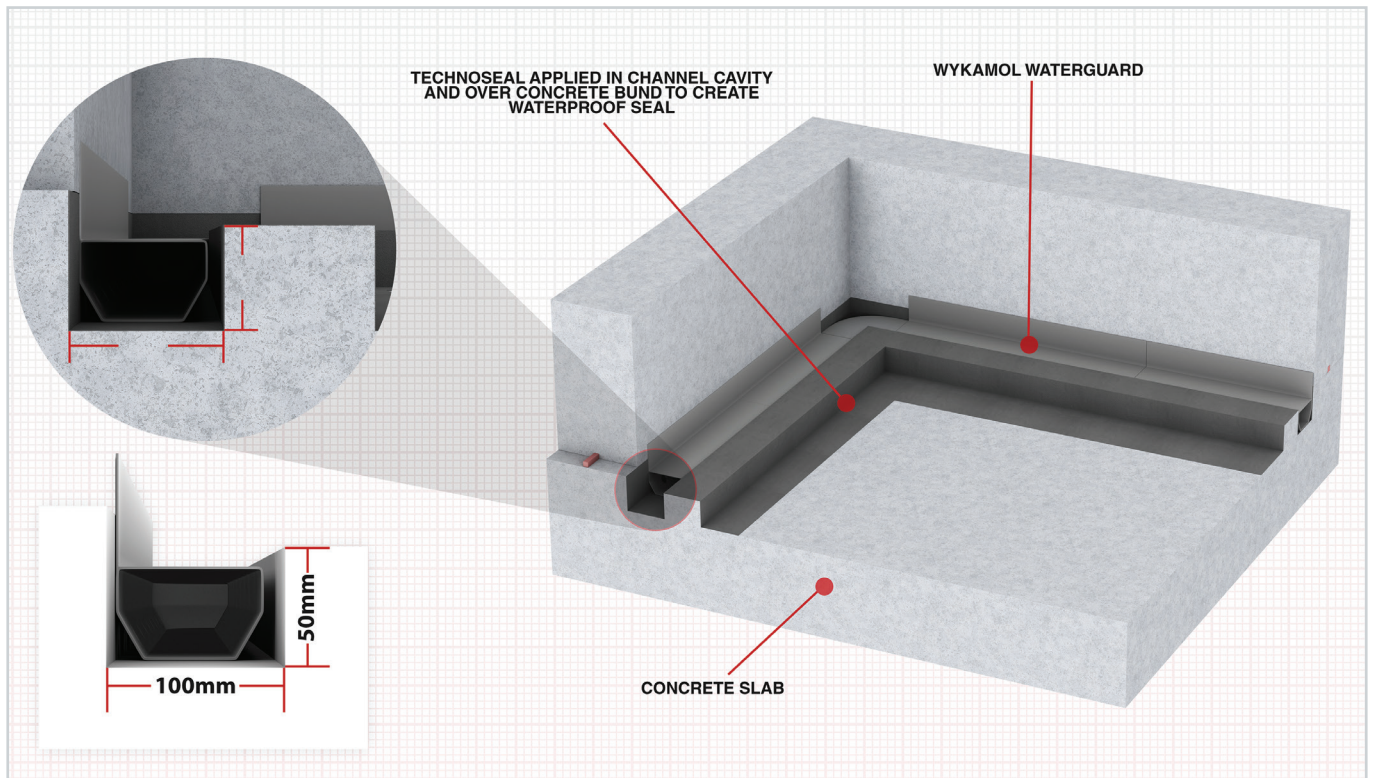
## PERIMETER CHANNEL SOLUTIONS

### 4. Forming a channel on to the concrete slab using a waterproof bund.

The upstand/bund can be formed by either casting a concrete upstand to the height required or using an engineering brick, bedded and flush pointed in waterproof mortar (use Wykamol Renderproof waterproof additive in the mortar mix) The upstand /bund is then 2 x coated in Wykamol Technoseal liquid

waterproof membrane to create a waterproof bund/channel.

The waterproof bund should be tested and commissioned prior to installing the full cavity drainage system for any defects or seepage. Install the Wykamol Waterguard channel set level.

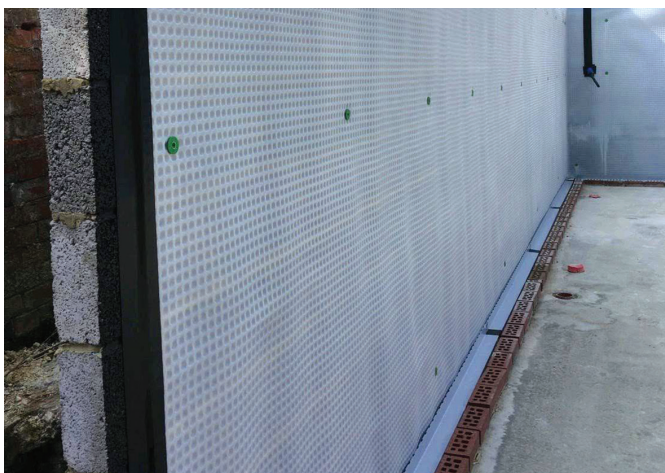
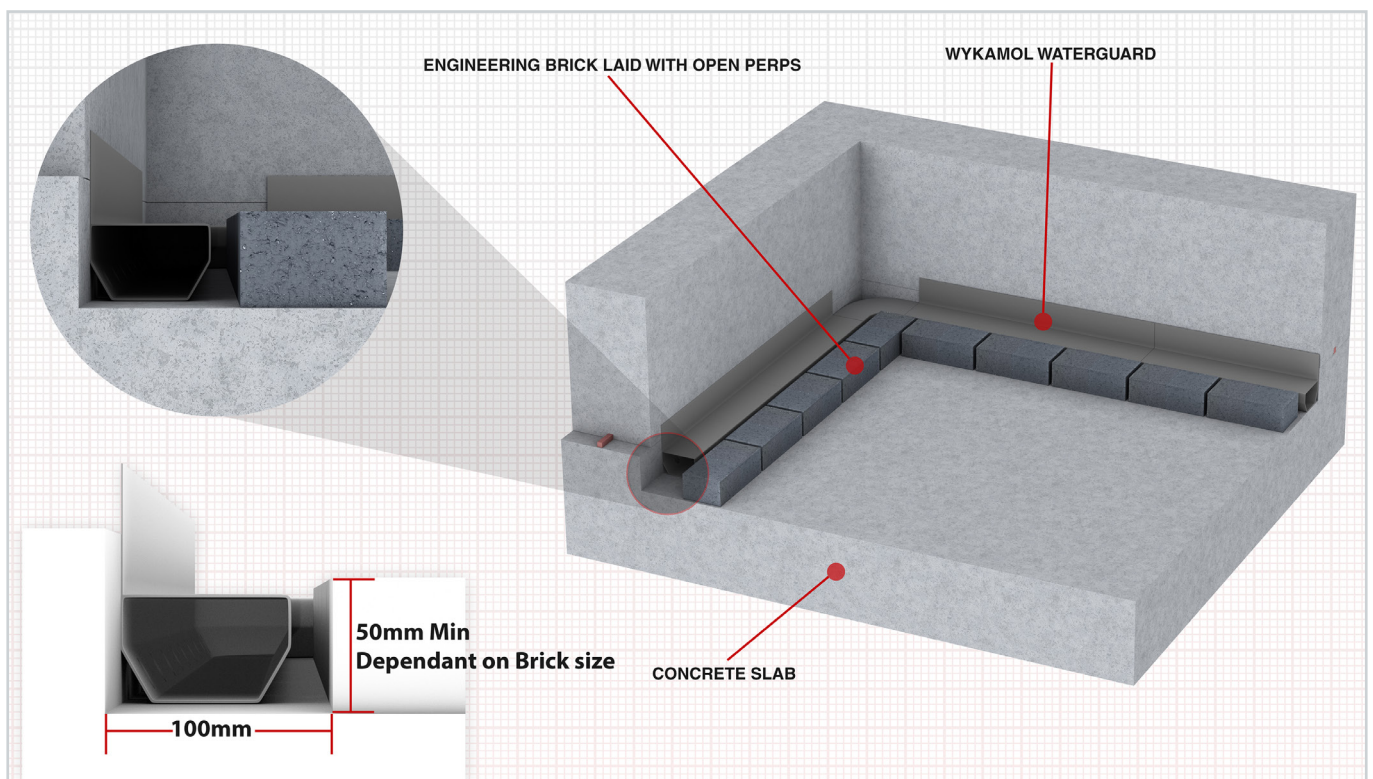




## 5. Forming a channel onto the concrete slab using an engineering brick with open perpendicular joints.

Install an engineering brick on to the slab leaving a number of the perp joints open (approx. 500mm depending on brick or block used) to allow any water ingress to move over the concrete slab to the drainage channel. Install the Wykamol Waterguard channel, set level.

**NOTE:** All the above drainage conduits should have the required flushing points and be fully tested and commissioned. The sump stations or natural drainage should also be fully tested and commissioned. Your client should be put on notice that servicing will be required, either by a specialist contractor or by the client's own contractor under a service agreement.





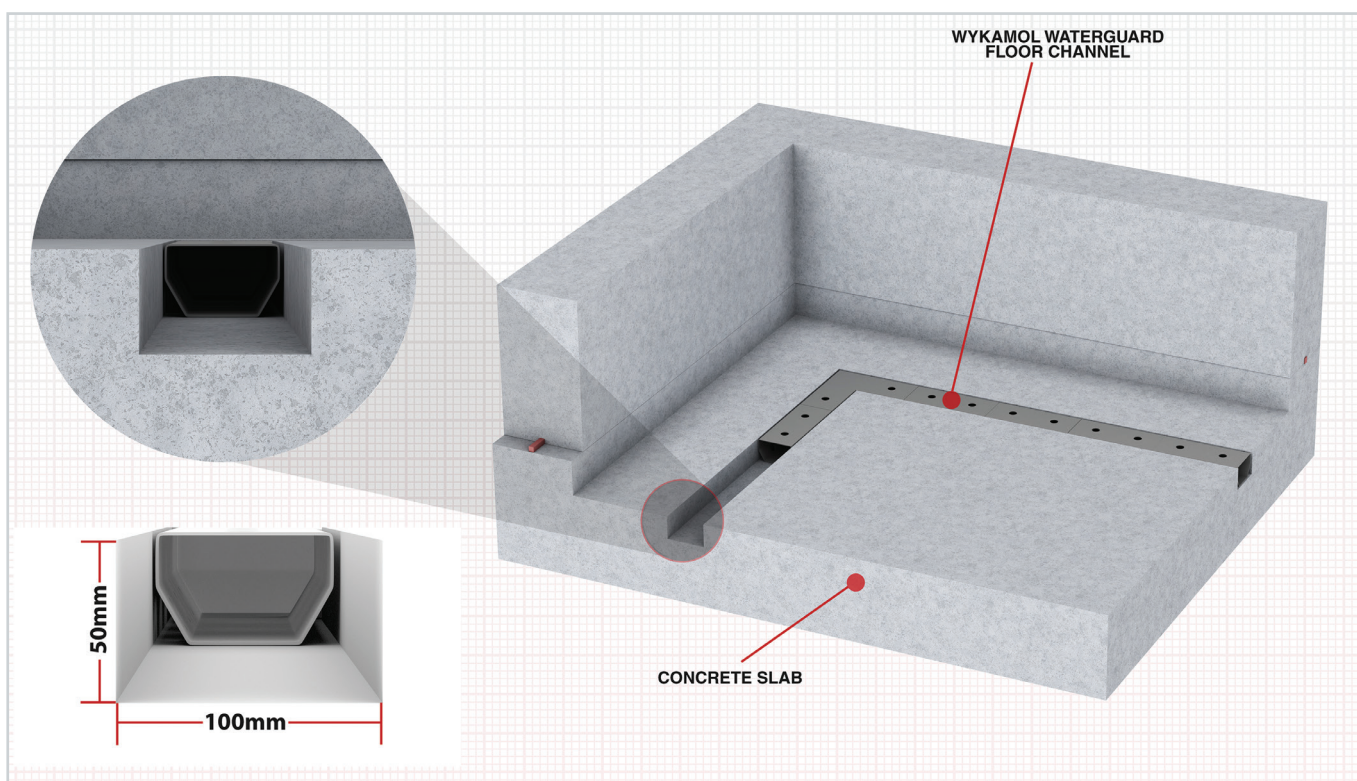
# ▼ DRAINAGE SYSTEMS

## PERIMETER CHANNEL SOLUTIONS

### 6. Pre-formed channel into the new concrete, but offset from the wall/floor junction.

The pre-formed channel would normally be installed away from the wall/floor junction, near or close to the soil retaining walls at 100mm wide x 50mm deep, using a length of timber as the shutter. Other materials can be used, but the key is to set the shutter level. The new concrete can be poured under the timber shutter and level with the top of the timber shutter, or installed

as the concrete is still wet. Again, setting level is key. When the concrete is dry, remove the timber. You now have a level pre-formed channel at the correct width and height. Please take into account that further shuttering may be required from the pipe work to the sump station or natural drainage points.

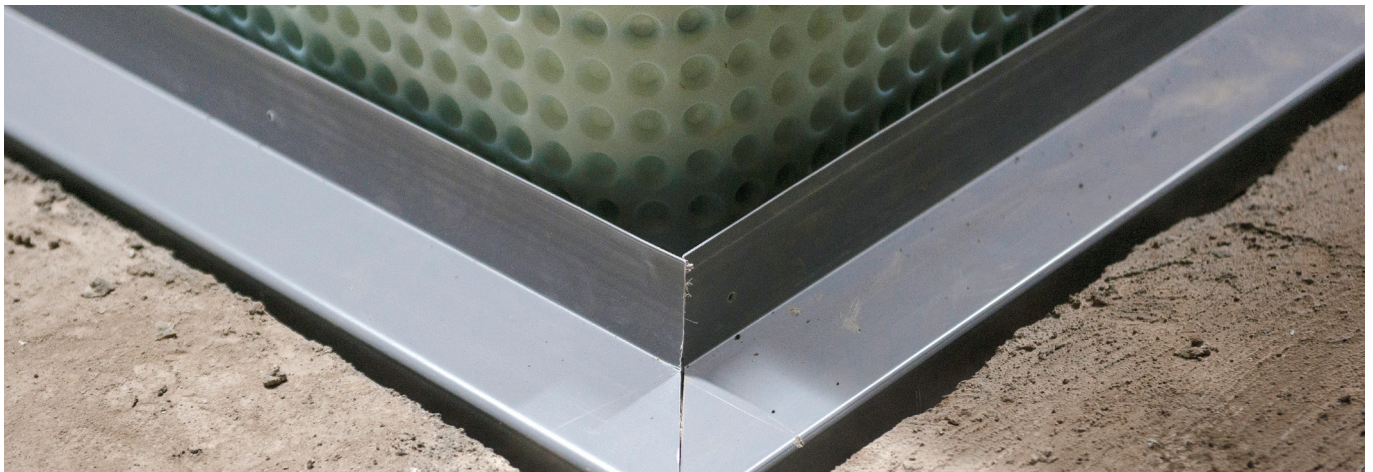
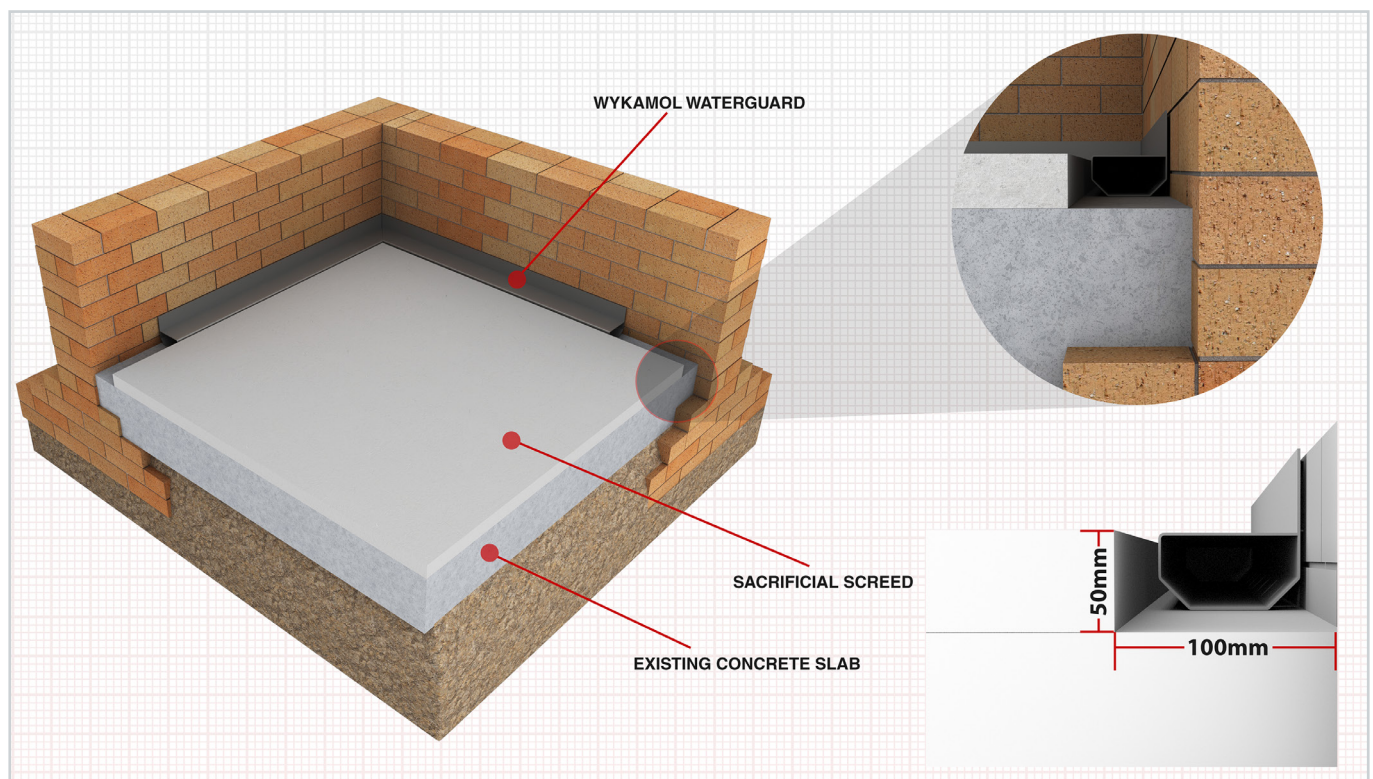




## 7. Forming a channel onto the concrete slab using a sacrificial screed.

Form a 100mm wide x 50mm deep timber shutter level at the wall/floor junction to the soil retaining walls. Pour a 50mm sacrificial screed over the slab and when the screed is dry, remove the timber shutter: this forms the drainage channel.

Install the Wykamol Waterguard channel level in to the formed channel.



# ▼ DRAINAGE SYSTEMS

## PERIMETER CHANNEL SOLUTIONS

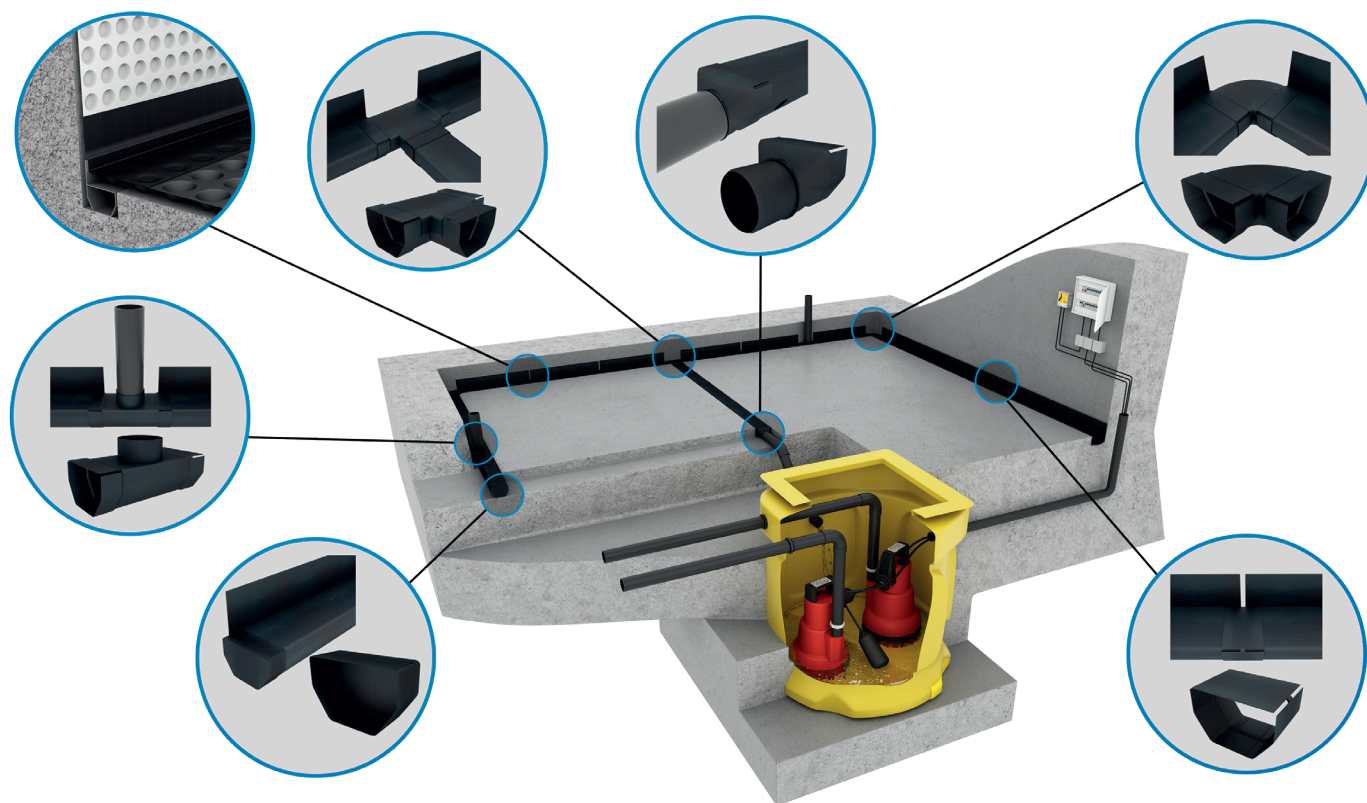
### PERIMETER CHANNEL ACCESSORIES

As part of our perimeter channel system, Wykamol are able to supply various options for connecting the channels, and specialist jointing sections for corners as well as drainage outlets to remove water to natural or pumped drainage.

Please see the diagram below which shows these items in situ as well as the following descriptions of products that are

available as part of the drainage system. Care must be taken to ensure cleaning and maintenance of these systems and jetting facilities need to be incorporated within the scheme.

Wykamol also offer a comprehensive pumped drainage catalogue to work with the channel systems. This is available from the Wykamol Technical Team.

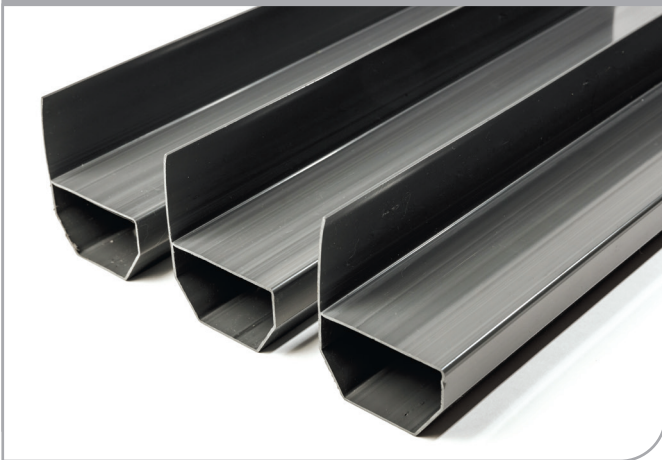




### Waterguard

Wykamol Waterguard is a PVC drainage conduit designed for the control of water ingress in below-ground situations. Wykamol Waterguard is fitted around the perimeter of the floor at the vulnerable wall/floor junction.

**CODE: WGCHANNEL**



### Floor Drain

Wykamol Floor Drain is a PVC conduit designed for the control of water ingress in below-ground situations. Wykamol Floor Drain can be fitted around the perimeter as well as across floor drainage, as part of a managed water removal system.

**CODE: FDCHANNEL**



### Universal Channel

The newly designed Universal Channel Outlet is used to remove water from the channel to the sump. It has the benefit of a 100mm outlet for high-water movement or for easier installation into the sump chamber.

It also comes with a jetting eye which can be cut down to suit floor finishes. Can be used with Wykamol Floor Drain and Waterguard channels.

**CODE: UCO**



### 50mm Outlet

Wykamol 50mm Outlet is a multi purpose outlet to take water from a Waterguard or Floor Drain systems into a sump chamber or through a wall on a sloping site to a gully. New snap in solution is easy to install with all channel systems.

**CODE: WGOUTLET**





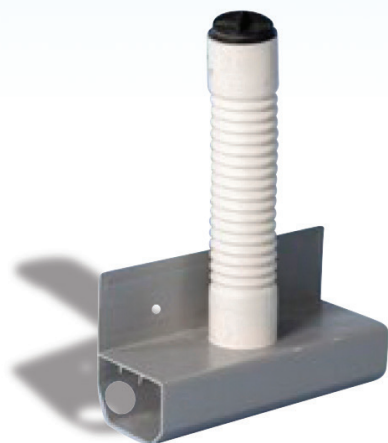
# ▼ DRAINAGE SYSTEMS

## PERIMETER CHANNEL SOLUTIONS

### Flexi Jetting Eye

The Wykamol Flexi Jetting Eye has been designed to allow the cleaning of the channel system and as an inspection chamber. The unique flexible upstand jetting point can be easily bent to allow the channel to be used in a wall port system. It also has the benefit of allowing slabs to be laid whilst still being easily accessible afterwards.

**CODE: WGJETEXT**

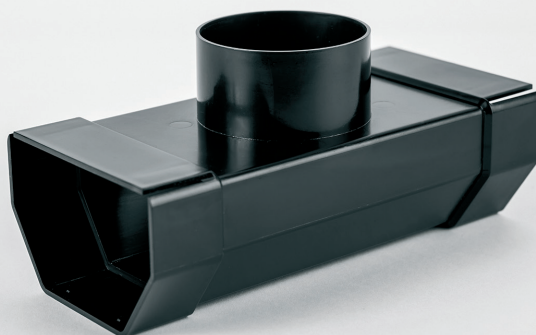


### Jetting Eye

The Wykamol Jetting Eye has been designed to allow cleaning and inspection of the Waterguard or Floor Drain channel systems via a push-fit interlock.

It has a unique 50mm connector allowing for pipework to be added to the Jetting Eye to access the channel system for cleaning and inspecting. It is recommended 1 jetting eye is installed every 10 to 12 metres of channels.

**CODE: WGJETEYE**



### T-Piece

The new Wykamol T-piece has been designed to connect Waterguard and Floor Drain sections together.

This can be used in cross floor drainage or as a connector to take water into a sump chamber via a floor drain section.

Easy, unique push-fit interlock application to enable a speedy installation.

No lips are evident in the T-piece to inhibit lime build up.

**CODE: WTPCE**



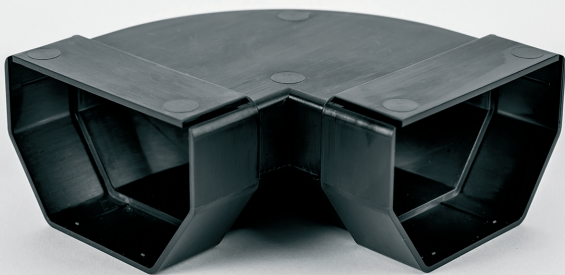


### Swept Corner

This Swept Corner piece allows a unique push-fit interlock into the Wykamol channels, to create a 90 degree corner section which allows for easier cleaning and jetting of the system .

A lack of sharp edges allows for a seamless flow of water and also helps inhibit lime build up within the system.

**CODE: WCORNER**



### Joining Section

This push-fit joint section allows all channel sections to connect together to form a seamless passage of water to flow and help inhibit lime build up. This also helps reduce movement at jointing sections.

**CODE: WGCONNECTOR**



### Stop End

The new Wykamol Stop End is a cap for sealing the ends of a perimeter and central drainage channel. It simply clips on to the end of the channel. Generally used where drainage is only being installed along a single wall in a basement, therefore the channel needs to terminate.

**CODE: WGSTOPEND**







# PERIMETER CHANNEL DRAINAGE SOLUTIONS FOR CAVITY DRAIN MEMBRANE SYSTEMS

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