

**OSMA Domestic Channel
Drainage Systems**

Range Summary



FOR RESIDENTIAL AND LIGHT
COMMERCIAL APPLICATIONS

Introduction to the range

The OSMA range of domestic channel drainage products offers a complete and integrated surface water drainage system for all domestic applications.

The range consists of:




- **OsmaChannel** domestic polymer concrete drainage system
- **OSMA RainChannel** plastic channel drainage system
- **OSMA Threshold** PVC-U drainage system

The systems are suitable for a wide range of domestic applications such as:

- Garden paths
- Walkways
- Patios
- Barbecue areas
- Pool surrounds
- Domestic driveways
- Domestic doorways (Threshold)
- Stepped areas
- Sports courts
- Cycle paths
- Laundry rooms



OSMA Domestic Channel Range Summary

System:	Ref:	Description:	Load Classifications of gratings available:
 OsmaChannel	100OC210	Lightweight, polymer concrete, domestic channel supplied complete with galvanised grating and fixings, suitable for domestic driveways, and pedestrian areas around domestic property.	A15
 Osma RainChannel	100OC410	Lightweight recycled polypropylene channel supplied complete with recycled polypropylene grating. Provision for bolting if required. Suitable for applications such as paths, patios and gardens.	A15
 Osma Threshold	100OC510	Lightweight, PVC-U domestic threshold channel supplied complete with grating. Designed to be used in front of doorways enabling level access as required by Part M of the Building Regulations.	A15

SYSTEM SELECTION

Features and Benefits

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OsmaChannel 100OC210

- 1m length, 80mm overall depth
- Made of Polymer Concrete - 75% lighter than traditional concrete
- Lightweight & easy to install
- Suitable for class A15 Applications
- Supplied complete with galvanised grating and fixing mechanism
- Male and female ends to facilitate easy connection into a run
 - No separate connector plates required
- Ancillaries available:
 - End plate (100OC260)
 - Sump - complete with removable silt bucket (100OC230)



OSMA RainChannel 100OC410

- 1m length, 87mm overall depth
- Made of lightweight, recycled polypropylene
- Quick and easy to cut to size on site
- Suitable for class A15 Applications
 - Including threshold (front of doorway)
- Polypropylene grating has:
 - Anti-slip design
 - No metal parts
 - Self locking slot-fit system
 - Built in provision for bolting if required
- Male and female ends to facilitate easy connection into a run
 - No separate connector plates required
- PolyHeel self locking grating has narrow slots to prevent thin heels/small wheels getting caught
- Ancillaries available:
 - RainChannel End Plate (100OC460)



OSMA Threshold 100OC510

- 1.2m length
- Made of PVC-U
- Lightweight & easy to install
- Suitable for up to class A15 loading
- Supplied complete with grating
- Specifically designed for use in front of doorways enabling level access as required by Part M of the Building Regulations
- Ancillaries available:
 - End Plate (x2) (100OC560)
 - Outlet Adaptor (100OC520)
 - Jointing Piece (100OC530)



Typical Installation for Domestic Channel Drainage Systems

RainChannel Installation:



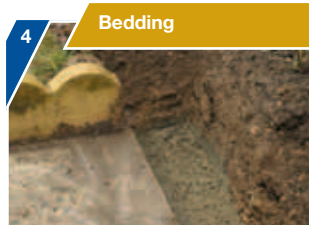
Excavate a trench of sufficient length for the channel run to accommodate a sufficient channel bed and surround.



Lay out the channel units alongside the trench, starting at the outlet.



Using an appropriate tool cut out the relevant vertical outlet ready to connect to suitable pipework.



Create a 100mm bed of good quality concrete along the base of the trench.

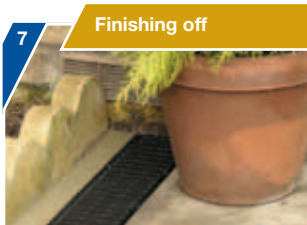


Starting at the outlet simply slot each channel together using the male/female inter-locks. Lay onto the concrete bed, ensuring that the drain connection is correctly located and fitted.

Fit the end plates to complete the channel run and check the overall alignment of the channels.

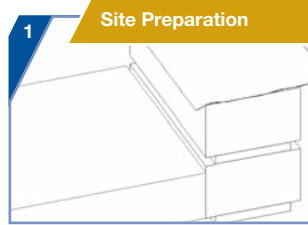


Haunch the sides of the channel with concrete, ensuring that the channel will be 3mm below the level of the surrounding surface finish material.

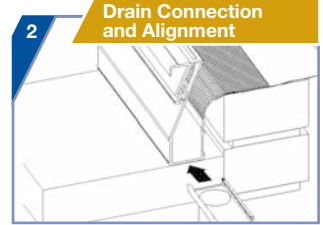


Allow the concrete to set. Add surrounding surface finish material if not using concrete alone. Ensure that any loose debris is removed from the channels.

Threshold Channel Installation (can be installed prior to, or post fitting of, the level entrance door):



Create a solid level base for the channel with either dry concrete or mortar, allowing approx. 127mm for the overall height from the top of the assembly to its base.



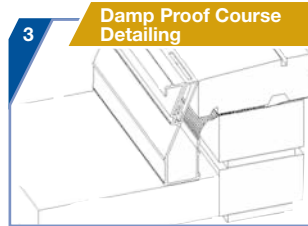
If a drainage connection is required, safely make a hole (40mm diameter) in the channel then slide the Outlet Adaptor (100OC520) along the channel to the outlet position.

Optional Drain Connection
Install a 110mm diameter surface water drainage run to the desired location at a suitable depth, to accommodate the channel, the outlet adaptor and a 110mm drainage connector (4D298).

A Jointing Piece (100OC530) to join two or more channels together is available. To enable longer runs than the standard 1200mm to be made.

Fit both End Plates (100OC560).

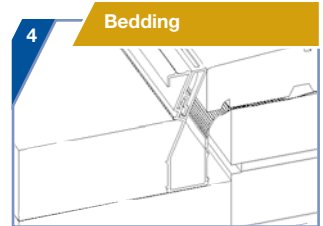
Position and align the top edge of the channel, slightly lower than the nosing on the front of the threshold. Insert the outlet adaptor into the drainage connector.



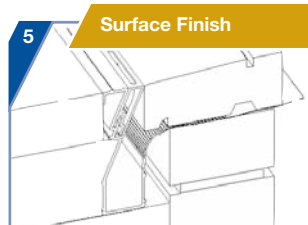
Fold the flexible side of Threshold Channel onto the Damp Proof Course (DPC), to collect any water from the drip rebate directing it into the channel.

The door threshold can now be fitted when required.

If the door is to be fitted at a later stage then care must be taken to protect the channel from damage.



Form the approach to the entrance by laying the required sub-base up to the channel, leaving sufficient space for the surface finish. Any final adjustments should be done at this time.



Lay the paving to finish flush with the top edge of the channel.

Alternatively, the top edge of the channel provides a guide, to cast a wet concrete pathway against.

Remove the clear protective film when works are complete.



Threshold Channel can be positioned after the door is installed. In this situation the flexible strip will require trimming to fit under the threshold supported by a cement mortar fillet forming a smooth curve falling back to the channel.

All other aspects of installation are as previously illustrated.

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