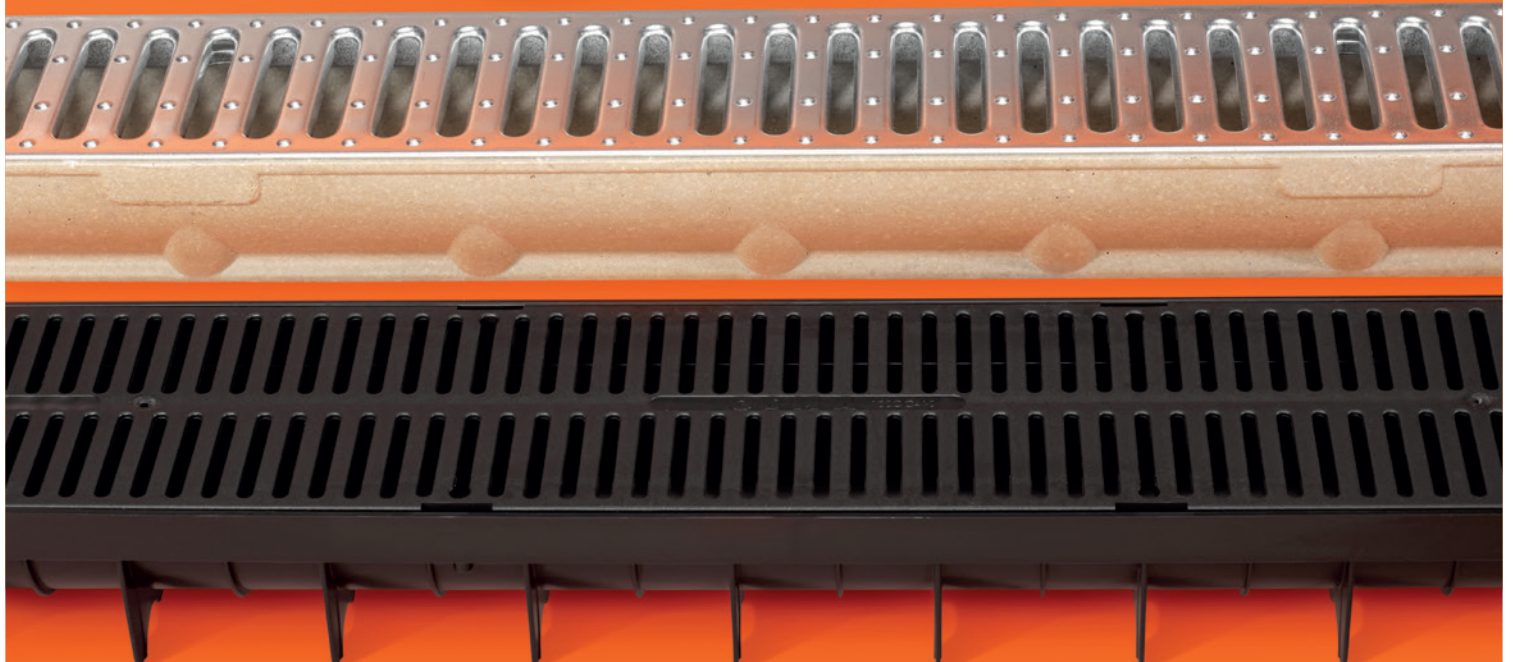


Product and installation manual

OSMA

**Domestic Channel Drainage
Systems**



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Domestic Channel



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Introduction Domestic Channel

Domestic Channel Drainage Systems

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

The domestic linear drainage range incorporates OsmaChannel, Osma RainChannel and Osma Threshold Drain.

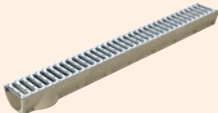
Applications

Osma domestic linear drainage products can be used in a variety of applications, including:

- ③ Garden paths
- ③ Walkways
- ③ Patios
- ③ Barbecue areas
- ③ Pool surrounds
- ③ Domestic garage thresholds
- ③ Stepped areas
- ③ Sports courts
- ③ Cycle paths
- ③ Laundry rooms

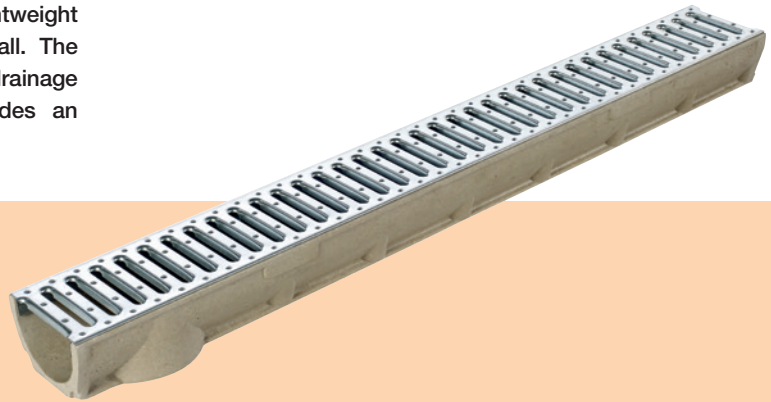


Osma Domestic Channel Drainage Summary

System	Product	Description
OsmaChannel		Lightweight, polymer concrete, domestic channel supplied complete with galvanised grating, suitable for use in front of domestic garage thresholds and pedestrian areas around domestic property.
Osma RainChannel		Lightweight recycled polypropylene channel supplied complete with recycled polypropylene grating. Suitable for applications such as paths, patios, gardens and in front of domestic garage thresholds.
Osma Threshold Drain		Lightweight, PVC-U Threshold Drain, designed to be used in front main access doorways enabling level access as required by Part M of the Building Regulations. The Threshold Drain is complemented by a selection of ancillary products, which enable a connection to the drainage system.

OsmaChannel (Polymer Concrete) Domestic Channel

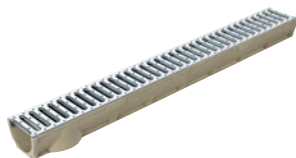
OsmaChannel linear drainage products provide a lightweight yet robust drainage solution that is simple to install. The products collect and channel surface water into the drainage system, whilst the galvanised steel grating provides an attractive and durable finish.



Features and Benefits

- 1m length, 78mm overall depth
- Easy installation and minimal excavation
- Ideal for use in front of domestic garage thresholds and pedestrian areas around domestic property
- Supplied complete with galvanised grating
- Fast cleaning thanks to a snap-in grating
- Channel manufactured to EN 1433

OsmaChannel Product Details



OsmaChannel 1.0m length complete with snap-in galvanised grating €€

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
1000	100OC210	100	120	68	78	6.70



OsmaChannel Start and End Plate

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
–	100OC260	–	120	–	113	0.03



OsmaChannel End Outlet Connector – DN 110mm

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
–	100OC270	–	120	68	145	0.07



OsmaChannel Vertical Outlet Connector – DN 110mm

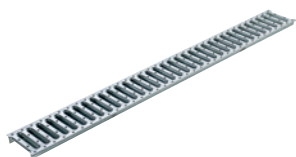
Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
–	100OC280	–	110	–	200	0.17

OsmaChannel (Polymer Concrete) Domestic Channel



OsmaChannel Sump Unit with Galvanised Grating and Bucket

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
500	100OC230	100	120	258	288	13.30



OsmaChannel Galvanised Grating – 1.0m length (Spare)

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
1000	100OC211	–	118	–	22	1.39

CE Marking

CE identifies product manufactured in accordance with a harmonised European Norm (hEN) accompanied with a declaration of performance (DoP).

Acceptance

BS EN 1433:2002

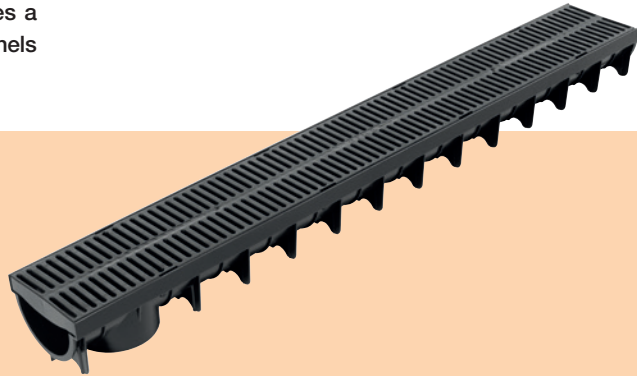
Drainage channels for vehicular and pedestrian areas – Classification, design and testing requirements, marking and evaluation of conformity.

Osma RainChannel (Polypropylene) Domestic Channel

The Osma RainChannel linear drainage range incorporates a leaf trap and an end plate. The product collects and channels surface water into the drainage system.

Features and Benefits

- ⤵ 1m length, 87mm overall depth
- ⤵ Made of lightweight, recycled polypropylene
- ⤵ Ideal for use in front of domestic garage thresholds and pedestrian areas around domestic property
- ⤵ Polypropylene grating has:
 - Anti-slip design
 - Snap-in grating
 - Narrow slot width
- ⤵ Connects with a positive joint with or without sealant



Osma RainChannel Product Details



Osma RainChannel – 1.0m length complete with snap-in polypropylene grating

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
1000	100OC410	100	131	70	87	1.79



Osma RainChannel Leaf Trap

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
–	100OC440	–	91	–	61	0.03



Osma RainChannel End Plate

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
–	100OC460	–	131	–	79	0.03



Osma RainChannel Garage Pack – 3 x 1.0m channels plus 2 end plates

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
1000	100OC461	100	131	70	265	5.43

Osma Threshold Drain (PVC-U) Domestic Channel

Osma Threshold Drain provides a solution for The Building Regulations Approved Document M, which covers access and facilities for disabled people. The drain channel is installed flush to new or existing thresholds, allowing the required level access to be easily drained.

Features and Benefits

- 1.2m length, 128mm overall depth
- Made of high quality PVC-U
- Low visual impact – No unsightly grid in front of your door
- Quick and easy to install – Before or after door installation
- Inexpensive to install compared to other systems
- Simple to maintain – It is easy to remove the grid, clean and replace
- Universal – Connects to clay or plastic drainage systems



Please Note:

Osma Threshold Channel was designed for rainwater that drips down house entrance doors only. It is not designed for draining any hard standing areas or long runs of folding/sliding doors as there may be issues with flow capacity and reflected heat. We are aware that folding/sliding door companies detail this product, however we have never tested it or recommended it for this installation and we have no capacity values for the channel.

Osma Threshold Drain Product Details



Threshold Drain Channel (PVC-U) – 1.2m length – Complete with grid

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
1200	100OC510	–	40	50	128	1.64



Threshold Drain End Plate (pair)

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
–	100OC560	–	40	–	128	0.03



Threshold Drain Outlet Adaptor

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
100	100OC520	–	40 dia	–	48	0.02



Threshold Drain Jointing Piece

Length (mm)	Part Number	Internal width (mm)	Overall Width (mm)	Invert Depth (mm)	Overall Height (mm)	Weight (kg)
–	100OC530	–	50	–	42	0.02

Installation Domestic Channel

OsmaChannel and Osma RainChannel

This page provides a step-by-step guide to installing Osma domestic linear drainage systems

Step 1

Prepare the ground and dig a shallow trench to the correct level.



Step 2

Lay a bed of concrete to the correct level.



Step 3

Place the channel drain onto the concrete bed and gently tap into place using a rubber mallet. Use a spirit level to ensure the channel drain is installed to the correct level.



Step 4

Lengths can be jointed together either before installation or in situ. To join simply align and slot into place.



Step 5

Osma RainChannel Polypropylene only
If you are installing to BS EN 1433, silicone sealant should be used to seal the joint and make watertight. **Do not** apply silicone sealant to OsmaChannel polymer concrete products.



Step 6

The rest of the patio can then be laid for a neat and attractive finish.



Additional Notes:

1. Please refer to application details for correct concrete bedding in order to comply with BS EN 1433.
2. Where hot surface finishes are used, care should be taken to ensure the material does not come into contact with the plastics channel until cool.

Installation

Domestic Channel

Osma RainChannel Product Features

Jointing System

Osma RainChannel can be joined together before installation or in situ. To join simply align and slot into place.



Vertical Knockout

The outlet in Osma RainChannel is created by simply knocking out the blanking piece (pictured). For OsmaChannel polymer concrete products, this piece should be drilled out.



Maintenance

Osma RainChannel grating simply clips into place without the need for any additional fastenings, and can easily be removed for cleaning purposes. For extra security, the grating of Osma RainChannel can be screwed to the frame to prevent unauthorised tampering or removal.



Osma Threshold Drain

This page provides a step-by-step guide to installing Threshold Drain

Step 1

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



Step 2

Optional drain connection. Install a 100mm diameter surface water drainage run to the desired location at a suitable depth. 370mm approximately accommodates the channel, the outlet adaptor and a 32mm/40mm drainage adaptor. Safely make a hole in the channel then slide the Outlet Adaptor along the channel to the outlet position and fit both end caps. Position and align the top edge of the channel slightly lower than the nosing on the front edge of the threshold. Insert the outlet adaptor into the 32mm/40mm drainage adaptor.



Step 3

Fold the flexible strip of the threshold drain onto the Damp Proof Course to collect any water from the drip rebate directing it into the channel. The door threshold can now be fitted. If the door is to be fitted at a later stage, then care must be taken to protect the channel from damage.



Step 4

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



Step 5

Either: Lay the paving to finish flush with the top edge of channel; OR Alternatively, the top edge of the channel provides a guide to cast a wet concrete pathway against.



Step 6

Completed installation.



Step 7

Alternative installation. Threshold drain can be positioned after the door is installed. In this situation the flexible strip will need 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.



Installation

Domestic Channel

Osma Threshold Drain Product Features

Joining System

Threshold drain simply clips together with the aid of a joining piece.



Maintenance

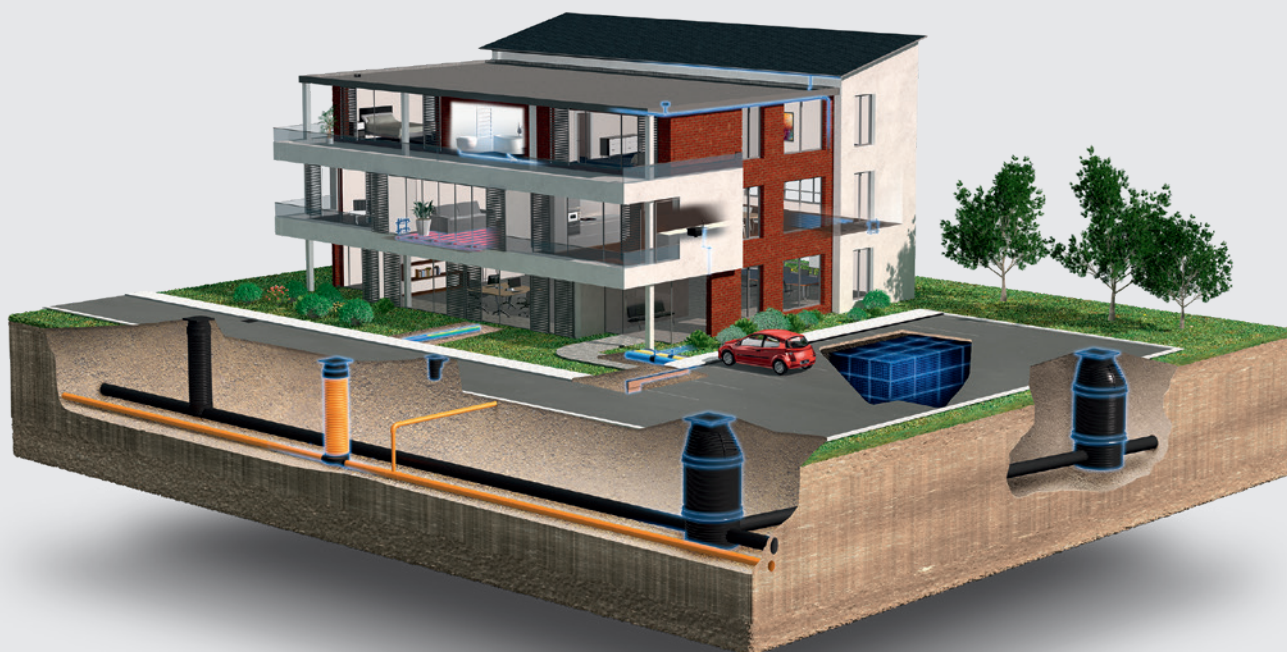
The threshold grid can be detached from the Threshold Drain by carefully levering out and lifting the grid clear to remove debris. To replace, simply squeeze the grid and rotate the top backwards towards the threshold, and slide it down the profiles' internal angle into place. Replacement grids are available in the event of loss or damage and can be easily cut to size.



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