

Product code: PV03001

Permachannel is a versatile, linear treatment system that can provide source control and pollution treatment in a wide variety of locations and applications.

The Permachannel functions as a combined run-off collection, silt and oil interceptor and treatment system. It is designed to be ideally laid with zero gradient to prevent the development of lateral velocities, 'stilling' sheet run-off from each sub-catchment and encouraging silt deposition within each channel. The outlets discharge from the side of the channel via a weir and baffle component which separates oils and prevents the effluent and silt from progressing into the rest of the drainage system.

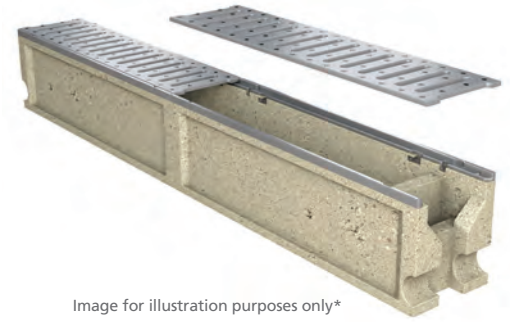


Image for illustration purposes only\*

## Applications

Permachannel is used for stormwater collection, interception and the treatment of associated pollutants. The system comprises of single or multiple interconnected channels appropriately located to collect surface water run-off from sub-catchments of predominantly impervious or pervious pavements. Permachannel is suitable for use in a range of applications including residential, industrial estates, car parks, sports pitches, roofs, basements, pedestrian areas and rainwater harvesting.

## Key Benefits

- Gravity separation of oils and silts at source
- Trapped effluent naturally treated by aerobic digestion
- Can enhance water quality and eliminate the need for end of line petrol/oil interceptors
- The system complies with the regulations of the treatment train criteria in a SuDS scheme as defined in PPG3
- 100% recyclable

## Performance

Permachannel is rated to D400 loading in accordance with BS EN 124:1994 when installed with concrete bed and haunch in accordance with site specific construction details.

## Installation

Permachannel must be installed on a load bearing concrete bed and haunch in accordance with site specific construction details.

## Technical Support

Detailed guidance and assistance is available. For further information, please contact our Technical Team on **+44 (0) 1509 615100** or email [civils@polypipe.com](mailto:civils@polypipe.com) or visit [www.polypipe.com/civils-technical-hub](http://www.polypipe.com/civils-technical-hub)

ELEMENT	VALUE
<b>PHYSICAL PROPERTIES</b>	
Weight per unit	29kg
Length	1000mm
Width	150mm
Depth	210mm
Material	Polymer Concrete
Grating	Ductile iron standard steel safe
Catchment area	30m <sup>2</sup>
Loading	Rated to D400
Chemical Resistance	The polymer concrete has a capillary-free, non porous sealed structure, which makes it naturally resistant to most chemicals (i.e. petrols, oils and acids)

Effluent concentrations are below PPG3 Class I requirements

Note: Ancillary Universal Channel Connector 40mm diameter

\*Over time the grating will develop a naturally occurring iron oxide protective coating often referred to as a patina. The colour of the patina is typically a deep reddish-brown and dependent on local conditions might take a year to reach its final colour. During early stages of this process it is normal for the grating colour to appear rust-orange.

Permachannel can be utilised in these SuDS techniques

TECHNIQUES													
Blue-Green roofs	Podium Decks	Trees	Sports Pitches	Cycle Paths	Permeable Paving (sub base & podium)	Bioretention & Rain Gardens	Attenuation Storage Tanks	Infiltration	Swales	Filter Drains	Detention Basins	Ponds & Wetlands	Filter Strips
	✓					✓	✓	✓					

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