

Product code: PVTHD

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

The Permatreat-HD functions as a combined run-off collection, silt and oil interceptor and treatment system. It is designed to be 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 treated stormwater outlets discharge from the side of the treatment device, having passed through the Permatreat-HD weir and baffle arrangement, which separates oil and silt, preventing it from progressing further into the drainage system.

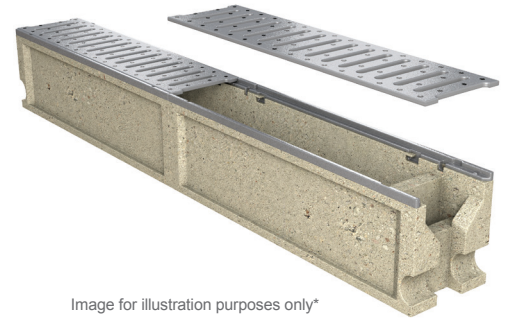


Image for illustration purposes only*

Applications

Permatreat-HD is used for stormwater collection, interception and the treatment of associated pollutants. The system comprises of single or multiple interconnected units appropriately located to collect surface water run-off from sub-catchments of predominantly impervious or pervious pavements. Permatreat-HD is suitable for use in a range of applications including residential, industrial estates and lorry parks.

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

Permatreat-HD is a type M channel rated to D400 loading in accordance with BS EN1433:2002 when installed with concrete bed and haunch in accordance with site specific construction details. If a lower loading capacity is required to C250, please use Permatreat-S or Permatreat-EA.

Installation

Permatreat-HD 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 or visit www.polypipe.com/civils/tech-hub

| ELEMENT | VALUE |
|---|---|
| PHYSICAL PROPERTIES | |
| Weight per unit | 29kg |
| Length | 1000mm |
| Width | 150mm |
| Depth | 210mm |
| Material | Polymer Concrete |
| Grating | Ductile iron |
| Catchment area | 30m ² |
| 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 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.

Permatreat HD 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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