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NHS Foundation Trust



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Real Innovation

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PROJECT	NORTH MANCHESTER GENERAL HOSPITAL
PROJECT NUMBER	20200 MSCP
DOCUMENT NUMBER	20200-SEL-XX-XX-SP-X-0002
TITLE	PERMATREAT-S OIL INTERCEPTION, RETENTION AND TREATMENT DRAINAGE CHANNEL
REVISION	P01
STATUS	S2
	FOR INFORMATION

Permatreat-S

Data Sheet

PRODUCT INFORMATION

P1

ISSUE 1 - JULY 2020

Product code: PVTS

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

The Permatreat-S 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-S weir and baffle arrangement, which separates oil and silt, preventing it from progressing further into the drainage system.

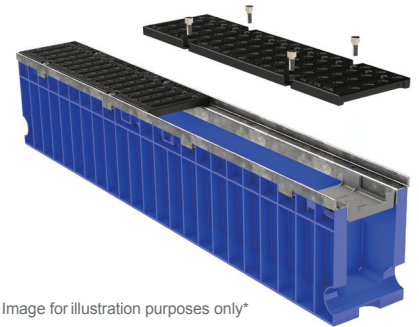


Image for illustration purposes only*

Applications

Permatreat-S 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-S is suitable for use in a range of applications including residential, industrial estates and car 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-S is a type M channel rated to C250 loading in accordance with BS EN 1433:2002 when installed with concrete bed and haunch in accordance with site specific construction details. If a loading capacity is required to D400, please use Permatreat-HD.

Installation

Permatreat-S must be installed on a load bearing concrete bed and haunch in accordance with site specific construction details and the Permatreat Installation Guide.

Technical Support

Detailed guidance and assistance is available.

For further information, please contact our Technical Team on **01254 589987** or email sales@selenvironmental.com

ELEMENT	VALUE
PHYSICAL PROPERTIES	
Weight per unit	10.9kg
Length	1000mm
Width	139mm
Depth	201mm
Material	Polypropylene
Grating	Ductile iron
Catchment area	30m ²
Loading	Rated to C250
Chemical Resistance	Polypropylene has good resistance to the most common chemicals found within stormwater run-off (i.e. petrol, oils and acids)
Effluent concentrations are below	PPG3 Class 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.