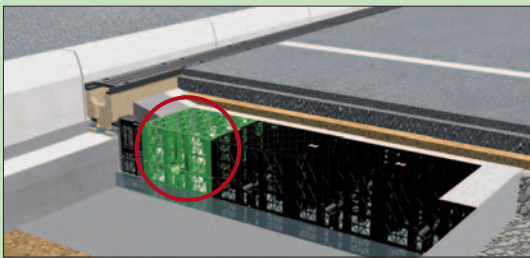
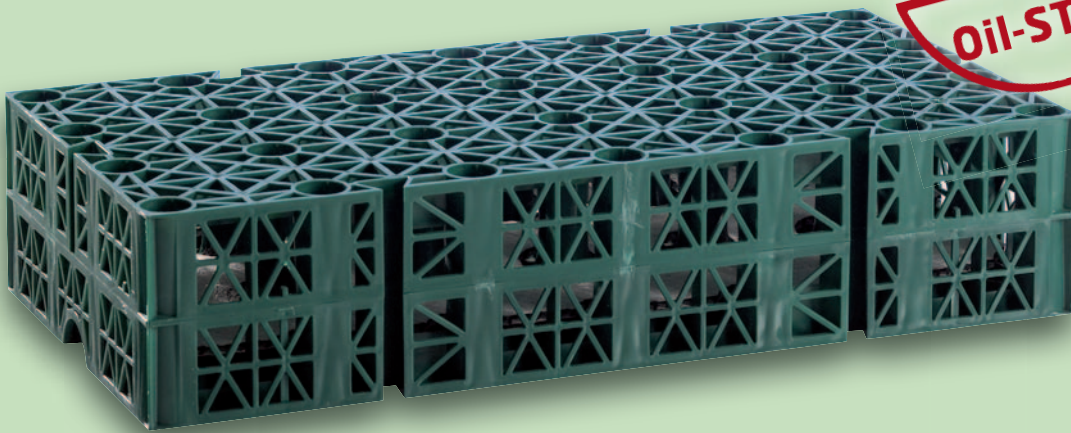
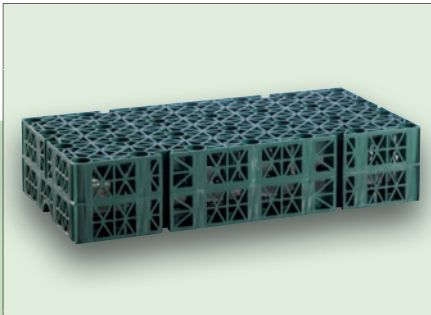


ENREGIS/Permafilter® Biomat 38

System solution for infiltration and
de-watering in low depths



- › extreme load capacity
- › Oil-Stop-System
- › multifunctional System:
in conjunction with
ENREGIS/Permavoid® and
ENREGIS/Permachannel®

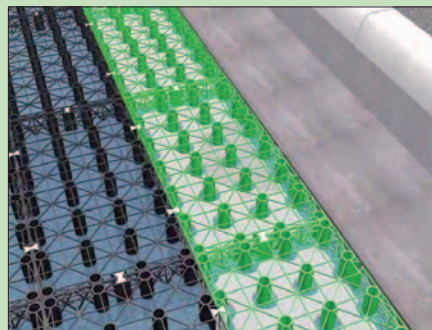


ENREGIS/Permafilter® Biomat 38 - environment protection integrated

Like the **ENREGIS/Permavoid** the **ENREGIS/Permafilter** is developed to meet highest demands in all kind of applications. Both Systems are equal in form and stability. In addition to this the **ENREGIS/Permafilter** is equipped with a special extra component: The **ENREGIS/Biomat-Geo-Fleece**

In applications, where the retention or degrading of oil and its residues is necessary, the rainwater can be introduced directly into the soakaway boxes over an **ENREGIS/Permachannel** system. These components are linked with special developed connectors for an optimal flow of water within the system. Rough soiling is already retained by the **ENREGIS/Permachannel** and oil residues are retained by the **Biomat-Geo-Fleece** where they are degraded in a natural way. For this it is not necessary to equip the hole system with **ENREGIS/Permafilter** modules but only the first layers where the water enters the system.

Depending on the aspected pollution of the water you can either built the whole system with the **ENREGIS/Permafilter** for strongly contained water or only use it in the first layers, if the estimated soiling is less worse. This gives the system the necessary flexibility in any kind of applications.



Picture: ENREGIS Permasystem

Oil-Stop-System

The especially developed **ENREGIS/Biomat Geo Fleece** is free to move within the soakaway box. This ensures an ascent with the liquid level in the retention system and leads to a permanent position on the surface of the water.

In this way the oxygen, which is necessary for the intended degradation of oil residues, is always available. This is essential for the process of degradation that proceeds continuously within the Geotextile.

The patent registered honeycomb-structure of the **ENREGIS/Biomat Geo Fleece** supports the degradation of oil residues by offering an

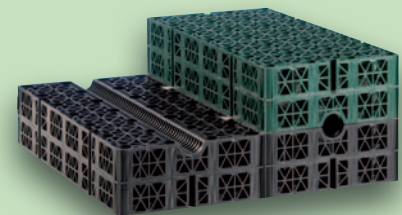
optimized habitat for bacterial life forms that are responsible for this aerobic process.

Additional to the usage of **ENREGIS/Permafilter** elements the whole retention system can be surrounded with **ENREGIS/Biomat Geo Fleece** that helps to degrade pollution within the system and avoids an infiltration of oil or oil residues into the ground and the groundwater.

This is a natural process that goes without any chemical additives or necessary maintenance jobs.

The **ENREGIS/Biomat Geo Fleece** comprises a proprietary blend of polyester fibres that incorporate hydrophilic and hydrophobic properties to achieve superior oil retention. It is capable of retaining oil contamination ranging from daily car drip losses up to catastrophic spillages, i.e. originating from car oil-sump failures.

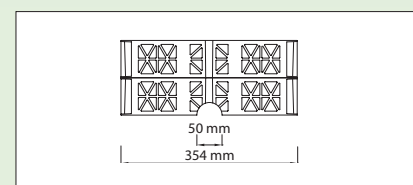
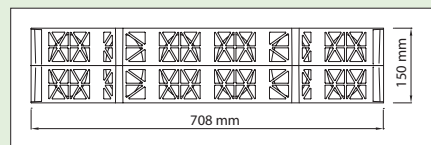
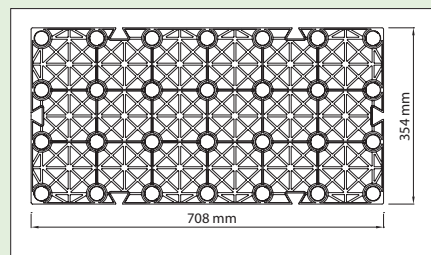
For more Informations see our detailed documentation of groundwater protection.



Data and Facts

Product name	
ENREGIS/Permafilter® Biomat 38	
Technical data	
Dimensions (B x H x D mm)	354 x 150 x 708
Storage capacity gross (L)	38
Storage capacity (%)	>92
Material	polypropylene
Weight per unit (kg)	approx. 3
Weight per m³ (kg)	approx. 80
Load capacity/minimal installation depth (earthcoverage)* (m)	up to 715 kN/m² heavy duty
walkable	min. 0,15
Car-accessible	min. 0,15
Truck acc. SLW 30	min. 0,15
Truck acc. SLW 60	min. 0,15
Max. earthcoverage* (m)	4,85
Max layers (piece)	1
Max. depth* (m)	up to 5,00, deeper levels on request
connection pipes (DN)	50
Certificates/Tests	
Meets BS EN 124:1994 standards	

Dimensions



Advantages

- extreme high load capacity
- high storage capacity (appr. >95%)
- good base area/volume ratio <= 150 l/m²
- light weighted, appr. 18p per unit (92p per cubicmeter)
- easy to install
- well defined program of accessories