

EnviroCrate H40

Loadbearing underground water storage/attenuation system

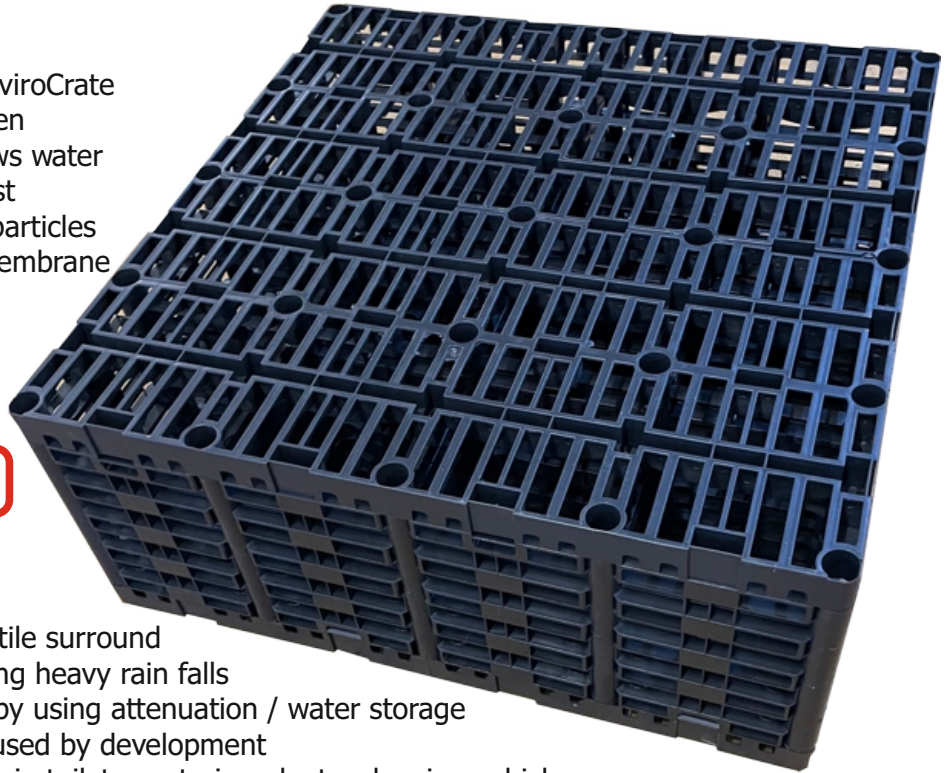
The Advantages of EnviroCrate

- # Assembled ready to install with up to 72M³ on a full load
- # Available in different configurations to meet specific load requirements
- # High load-bearing capability (32tonnes/m² vertical - 11tonnes/m² lateral) & so suitable for HGV traffic
- # Simple and fast to install with 2.5 units per M³
- # Modular size of 1m x 1m plan x 400mm height ensures great versatility in both size and shape of storage
- # Lightweight units under 25kg removes need for mechanical handling

Uses

- # For permeable infiltration schemes, EnviroCrate units should be wrapped in a non-woven needle punched geotextile which allows water discharge through the subsurface whilst preventing the ingress of soil or sand particles
- # For water storage, impermeable geomembrane is used between the geotextile & the crate assembly

Inspectable systems available



Why use EnviroCrate?

- # Rainwater is "cleaned" by the geotextile surround
- # Decreases possibility of flooding during heavy rain falls
- # Allows development of difficult sites by using attenuation / water storage
- # Decreases environment problems caused by development
- # For water storage for subsequent use in toilets, watering plants, cleaning vehicles and other grey water usages
- # Prevents extreme peak flows to main drainage and water purification systems

Design

- # Following assessment of the required water to be stored (see CIRIA C522, R156 & BRE 365) the total number of EnviroCrate units can be calculated using 2.5 /m³ (1000 litres). Decide on the best configuration for the characteristics of the site in question and create the "box" accordingly using the length and width dimensions allowing for a 95% void ratio.
- # An EnviroCrate tank needs 75mm sharp sand beneath the tank to protect the geotextile. Also use sharp sand on top and around the sides (Depth of sand between 75 and 100mm depending on the size & sharpness of stones in the backfill)
- # Use a silt trap to minimise ingress into the tank and this should be inspected regularly. CCTV/back-jetting points are recommended.

PRODUCT DATA

	EnviroCrate400
NOMINAL SIZE	1000 x 1000 x 400mm
CAPACITY	400Litres(2.5 per cu.metre)
UNIT WEIGHT	19kg
VOID RATIO	95%
COMPRESSIVE STRENGTH	>320+KN/m ²
LATERAL STRENGTH	>110+KN/m ²

Made from recycled polypropylene & can be recycled at end of use

MADE IN UK TO ISO9001 QUALITY STANDARDS

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