

AquaCrate is a loadbearing underground water storage & attenuation system.

The Advantages of AquaCrate are:

1. Assembled ready to install with up to 72M³ on a full load
2. Available in different configurations to meet specific load requirements
3. Available with high load-bearing capability able for HGV traffic
4. Simple and fast to install with 2.5 units per M³
5. Modular size of 1m x 1m plan x 400mm height ensures great versatility in both size and shape of storage
6. Lightweight units under 20kg removes need for mechanical handling

The Principle:

- For permeable infiltration schemes, AquaCrate 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, a impermeable geomembrane is used between the geotextile and the crate assembly

Why use Aquacrates?:

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

Design:

1. Following assessment of the required water to be stored (see CIRIA C522, R156 & BRE 365) the total number of Aquacrate 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.
2. Aquacrate is suitable for landscaped and car park areas as well as heavier duty use. As a guide, units require a minimum 0.5m of cover in landscaped areas and 0.75m cover in vehicular areas and need 75mm sharp sand base.



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