

## Aquality Storage Block (HD)

(Item No. Tbc)

A unique and patented plastic geocellular stormwater management system.



### Typical applications:

- Landscaped areas. No vehicles
- Landscaped areas with sit on mowers
- Pedestrian areas
- Suitable for driveways, car park up to 9000 kg rigid vehicles and fire engines, delivery vehicles, HGVs up to 30,000Kg
- For applications with HGV's and or high ground water please contact Aqualiy

### Features:


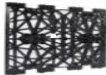


- Can be assembled in a variety of different tank configurations to satisfy installation and site requirements
- Silt management and control achievable through tank configuration layout
- A 1200mm x 1200mm concrete man access chamber for the Aquality Storage Block HD provides easy man access for through inspection down each of the system's pathways. Built to suit the size of the system and can be located at various points
- Bonded stacking for optimum stability
- Low flow, draindown and silt management facility
- Environmentally efficient solution, minimising carbon emissions in manufacture, transportation and on-site assembly
- High void ratio minimizes excavation volume
- Fully certified performance
- Manufactured from recycled and recyclable polypropylene
- Suitable for all industrial, commercial and residential applications including access roads.
- Clip-in 3 way connector and the crossbonding feature permits off site construction of the system
- Top covers support infill material

### Benefits:

- The patented brickbonding and crossbonding feature delivers a strong and robust tank installation
- The open cell structure provides simple access for remote CCTV and maintenance equipment to inspect all levels and areas of the system
- The stackable design reduces transportation costs and improves the carbon footprint of the product. For a 280m<sup>3</sup> storage volume project requirement, Aquality Storage Block can be transported on a single vehicle.
- The system has a unique 'draindown' facility – a simple access and clean feature of the tank (Attenuation only)
- Access chamber provides access for cleaning, large pipe diameter inlets and silt management
- Delivery, site logistics and installation are all dramatically simplified, as a result of the system's 'stackable' design
- A clip-in 3 way connector improves the structural integrity of multi-layered tank structures and where brickbonding is not used
- Inspection point for camera or jetting equipment
- Clear column 'pathways' simplify cleaning
- Smooth surfaces prevent silt build-up

**Technical data:**

	Aquality Storage Block HD
No of assembled unit per m <sup>3</sup> 1 assembled unit=2 half bodies (1.2x0.6x0.61)	2.28
Gross storage volume (m <sup>3</sup> )	0.439
Nett storage volume (m <sup>3</sup> )	0.417
Void ratio	95%
Short term vertical compressive strength	455 kN/m <sup>3</sup>
Short term lateral compressive strength	95 kN/m <sup>2</sup>

	Description	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
	Half Body	1200	600	305	10
	Side panel	580	580	35	1.6
	Top Cover	550	550	43	0.8
	Connector	100	40	46	0.1

**Specification clause:**

The HD water storage system shall be Aquality Trading & Consulting Ltd. The system shall have been tested in accordance with CIRIA C680 / C737 guidelines. The water storage block shall be 1.20m (L) x 0.600m (W) x 0.610m (H). Ultimate vertical strength should be 455 kN/m<sup>2</sup> and ultimate lateral strength 95 kN/m<sup>2</sup> with a storage void of 95%. The units shall allow for free access for CCTV / jetting equipment and be configured to allow for the management of silt utilising a sediment forebay/sediment tunnel/low flow and draindown facility (delete as applicable).

**NBS Specification:**

The water storage block should be specified in NBS section R17:315. Assistance in completing this clause can be found in the Aquality Trading and Consulting Ltd entry in NBS Plus or a model specification can be downloaded from [www.aqua-lity.co.uk](http://www.aqua-lity.co.uk). For further assistance, please contact the Aquality Engineering Team.