

# Product Details

## AquaCell Prime

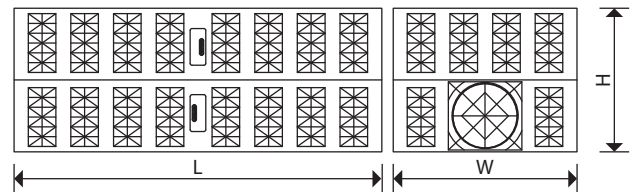
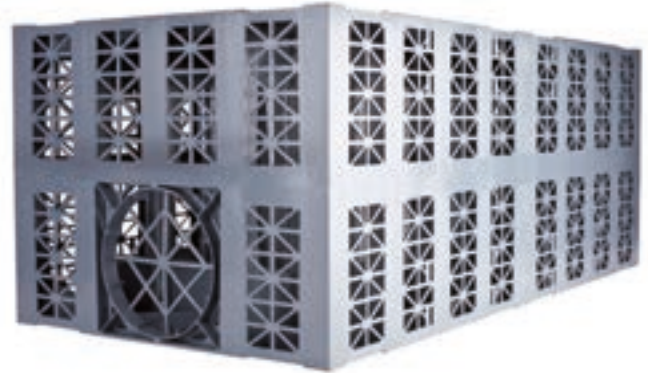
### Application

AquaCell Prime is manufactured from specially reformulated, recycled material. It is ideal for use in both shallow and deep applications, subject to either regular traffic loading – such as car parks (for vehicles up to 12 tonnes) or for landscaped areas.

Typically AquaCell Prime is suitable for installations to a maximum depth of 3.70m in landscaped areas (3.45m trafficked) to the base of the units from ground level, in best soil conditions.

### Features and benefits

- ⦿ Manufactured from specially reformulated, recycled material
- ⦿ Suitable for both soakaway and attenuation applications
- ⦿ Suitable for regular traffic loading, e.g. car parks
- ⦿ Proven vertical loading capacity of: 45.6 tonnes/m<sup>2</sup>
- ⦿ Proven lateral loading capacity of: 7 tonnes/m<sup>2</sup>
- ⦿ Grey in colour, for ease of identification
- ⦿ BBA approved – Certificate No 03/4018
- ⦿ Ideal for major attenuation and infiltration schemes



Material: Reformulated polypropylene

Nominal Size (mm)	Part Number	Dimensions (mm)		
		W	H	L
160	6LB075	500	400	1000



Maximum installation depths (to base units)

Typical soil type	Typical angle of shearing resistance (1) (2) (φ)	Maximum depth of installation – to base of units (m)			
		With groundwater at 1m below ground level and units wrapped in geomembrane		Without groundwater below base of units (normal case)	
		Trafficked areas (cars only) (3)	Non-trafficked areas	Trafficked areas (cars only) (3)	Non-trafficked areas
Stiff over-consolidated clay (e.g. London clay)	24°	1.60	1.78	1.73	1.98
Normally consolidated silty, sandy clay (e.g. alluvium, made ground)	26°	1.75	1.90	2.01	2.27
Loose sand and gravel	30°	1.95	2.08	2.58	2.86
Medium dense sand and gravel	34°	2.04	2.16	2.98	3.24
Dense sand and gravel	38°	2.14	2.24	3.45	3.70

- (1) Loosening of dense sand or softening of clay by water can occur during installation. Designer to factor in when selecting φ value.
- (2) The design is very sensitive to small changes in the assumed value of φ, therefore, it should be confirmed by a chartered geotechnical engineer. In clay soils, it may be possible to utilise cohesion in some cases.
- (3) Applicable for car parks or other areas trafficked only by cars or occasional refuse collection trucks or similar vehicles (typically one per week). Assumptions made are: ⦿ ground surface is horizontal ⦿ shear planes or other weaknesses are not present within the structure of the soil

Source: BBA