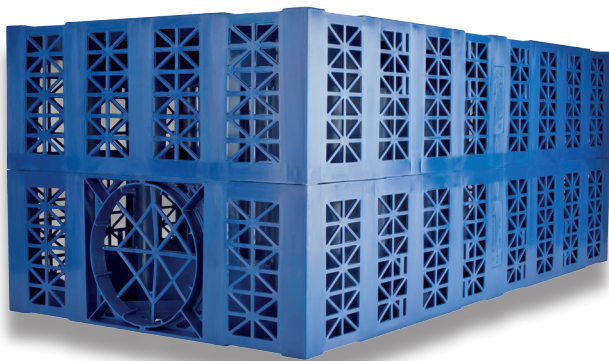


Description:

AquaCell Core has been designed for use in deep applications, subject to both regular and heavy traffic loadings, such as cars and HGV's (for vehicles up to 44 tonnes).



Technical Specification:

Part Number	6LB100
Unit Colour	Dark Blue
Dimensions	1m x 0.5m x 0.4m
Weight	9.3kg
Volume	190 litres
Void Ratio	95%
Material	Virgin PP
Vertical Loading	56 tonnes/m ²
Lateral Loading	7.7 tonnes/m ²

Typical Maximum Installation Depths:

Landscaped areas	4.25m
Trafficked by cars	4.1m
Trafficked by HGVs	4m
BBA approval	Yes (Certificate 03/4018)

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°	1.65	1.75	2.35	2.50
Normally consolidated silty, sandy clay (e.g. alluvium, made ground)	26°	1.70	1.80	2.50	2.65
Loose sand and gravel	29°	1.80	1.90	2.85	2.95
Medium dense sand and gravel	33°	1.90	2.00	3.30	3.45
Dense sand and gravel	38°	2.05	2.15	4.10	4.25

- (1) Loosening of dense sand or softening of clay by water can occur during installation. The designer should allow for any such likely effects when choosing an appropriate value of ϕ .
- (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

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