EcoBloc Core

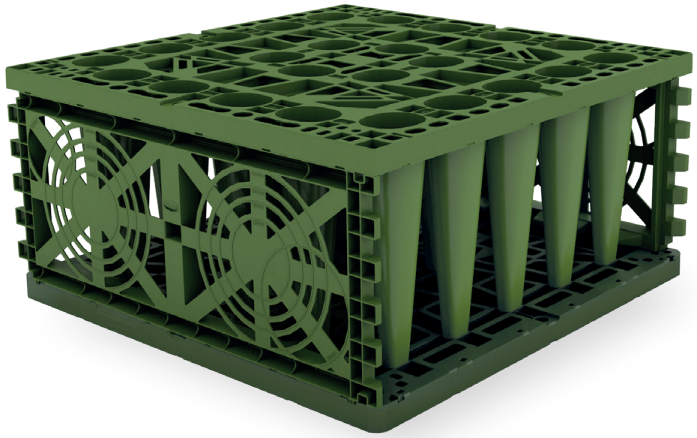
STORMWATER ATTENUATION & SOAKAWAY CRATES

Product Specification Sheet

EcoBloc Core is manufactured from selected recycled material and is designed for landscaped areas or restricted car parks where the vehicle loads will not exceed 9 tonnes.

Technical Specification

	Crate	Baseplate
Product Code	402300	402301
Colour	Green	Green
Dimensions (mm)	800 x 800 x 350	800 x 800 x 40
Weight	7kg	4kg
Gross Volume	224 litres	25 litres
Net Volume	217 litres	20 litres
Void Ratio	97%	80%
Inspectable	No	
Vertical Loading	22.5 tonnes/m² (225kN/m²)	
Lateral Loading	7.2 tonnes/m² (72kN/m²)	
BBA Approved	No	



Maximum depth of installation

Maximum depth of installation - to base of units (m)[1]

Typical soil type	Soil weight kN/m2	Angle of internal friction (degrees)[2]	Landscaped areas	Vehicle weight <6 tonnes	Vehicle weight <9 tonnes
Over consolidated stiff clay	20	24	2.50	2.25	2.25
Silty sandy clay	19	26	2.75	2.50	2.50
Loose sand and gravel	18	30	3.25	3.00	3.00
Medium dense sand and gravel	19	34	3.75	3.50	3.50
Dense sand and gravel	20	38	4.00	3.75	3.75

It is advised that structural design calculations are carried out prior to work commencing. Installation depths and loadings outside of those covered in this table may be permissable depending on site conditions. Contact Graf UK Ltd for more information.

Minimum & maximum cover depths

	Landscaped area	Vehicle weight <3 tonnes[3]	Vehicle weight <6 tonnes	Vehicle weight <9 tonnes
Minimum cover depth (m)	0.30	0.50	0.70	0.80
Maximum cover depth (m)	1.75	1.75	1.75	1.75

Notes:

1. Without groundwater present. EcoBloc Core may be used where groundwater is present, contact Graf UK for technical advice.
2. The design is very sensitive to small changes in the assumed value of ϕ, therefore, it is recommended that these values are confirmed by a chartered geotechnical engineer. In clay soils, it may be possible to utilize cohesion in some cases.
3. This category should be used when considering landscaped areas that may be trafficked by ride on mowers.

Assumptions made:

- Ground above and to the sides of the tank is horizontal.
- Shear planes or other weaknesses are not present within the structure of the surrounding soil.

Not suitable for construction vehicle loading (inc. cranes) under any circumstances

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Stormwater Management