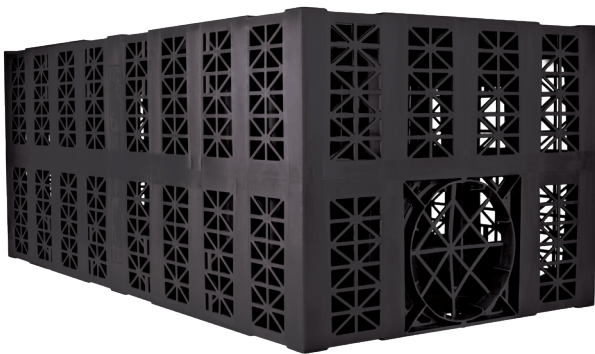


PRODUCT INFORMATION SHEET

AquaCell Core-R

Description

AquaCell Core-R has been designed for use in deep applications, subject to regular and heavy traffic loadings, e.g. cars and HGV's. AquaCell Core-R can also be used in both landscaped and deep soakaway applications.



Technical Specification

| | |
|-------------------------|---|
| Cat Code | 6LB150 |
| Colour | Grey |
| Dimensions | 1m x 0.5m x 0.4m |
| Weight | 10.3kg |
| Storage volume | 190 litres |
| Void ratio | 95% |
| Material | Recycled PP |
| Vertical loading | 61 tonnes/m ² (606 kN/m ²) |
| Lateral loading | 11 tonnes/m ² (114 kN/m ²) |
| BBA Approval | Pending (Certificate 03/4018) |

Maximum Installation Depths

| Typical Soil Type | Maximum depth of installation – to base of units (m) ¹ | | | | |
|------------------------------|---|--|-----------------|-------------------------------------|-----------------------|
| | Soil weight kN/m ³ | Angle of Internal Friction ϕ (degrees) ^{2,3} | Landscaped Area | Vehicles to 9 tonnes ^{4,5} | Vehicles to 44 tonnes |
| Over consolidated stiff clay | 20 | 24 | 3.59 | 3.34 | 3.09 |
| Silty sandy clay | 19 | 26 | 4.05 | 3.79 | 3.53 |
| Loose sand and gravel | 18 | 30 | 4.97 | 4.69 | 4.41 |
| Medium dense sand and gravel | 19 | 34 | 5.52 | 5.26 | 5.00 |
| Dense sand and gravel | 20 | 38 | 6.21 | 5.96 | 5.71 |

Minimum Cover Depths

| | Landscaped Area | Car Park with vehicle mass < 3000kg ⁵ | Car Park with vehicle mass < 9000kg | Car Park with vehicle mass < 12000kg | Car Park with vehicle mass < 60000kg |
|--------------------------------|-----------------|--|-------------------------------------|--------------------------------------|--------------------------------------|
| Minimum Cover Depth (m) | 0.30 | 0.50 | 0.60 | 0.70 | 1.11 |

- Without groundwater present below base of units – AquaCell Core-R may be used where groundwater is present, contact Wavin for technical advice.
- 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 .
- 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.
- Applicable for car parks or other areas trafficked only by cars or occasional refuse collection trucks or similar vehicles (typically one per week).
- This category should be used when considering landscaped areas that may be trafficked by ride on mowers.

Assumptions made:

- Ground surface is horizontal
- Shear planes or other weaknesses are not present within the structure of the soil

Source: BBA