

### Product Specification Sheet

RainBloc is manufactured from selected recycled material and is designed for deeper applications which may be subject to regular and heavy traffic loadings, e.g. cars and HGV's.

#### Technical Specification

	Crate
Product Code	360050
Colour	Black
Dimensions (mm)	1200 x 600 x 420
Weight	17kg
Gross Volume	300 litres
Net Volume	285 litres
Void Ratio	95%
Inspectable	No
Vertical Loading	45 tonnes/m <sup>2</sup> (450kN/m <sup>2</sup> )
Lateral Loading	15 tonnes/m <sup>2</sup> (150kN/m <sup>2</sup> )
BBA Approved	No



#### Maximum depth of installation

#### Maximum depth of installation - to base of units (m)<sup>1</sup>

Typical soil type	Soil weight kN/m <sup>2</sup>	Angle of internal friction (degrees) <sup>2</sup>	Landscaped areas	Vehicle weight <9 tonnes <sup>3</sup>	Vehicle weight <30 tonnes	Vehicle weight <60 tonnes
Over consolidated stiff clay	20	24	4.75	4.50	4.25	4.25
Silty sandy clay	19	26	5.50	5.25	5.00	5.00
Loose sand and gravel	18	30	6.00	5.75	5.50	5.50
Medium dense sand and gravel	19	34	6.50	6.25	6.00	6.00
Dense sand and gravel	20	38	6.75	6.50	6.25	6.25

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 permissible depending on site conditions. Contact Graf UK Ltd for more information.

#### Minimum cover depths

	Landscaped area	Vehicle weight <3 tonnes <sup>4</sup>	Vehicle weight <9 tonnes	Vehicle weight <12 tonnes	Vehicle weight <30 tonnes	Vehicle weight <60 tonnes
Minimum cover depth (m)	0.30	0.50	0.55	0.65	0.70	1.00 <sup>5</sup>
Maximum cover depth (m)	3.0	3.0	3.00	3.00	2.75	2.50

Other vehicle loads are possible. Please contact Graf UK for technical advice

#### Notes:

- Without groundwater present. RainBloc may be used where groundwater is present, contact Graf UK for technical advice.
- The design is very sensitive to small changes in the assumed value of  $\phi$ , therefore, it is recommended that these values are confirmed by a chartered geotechnical engineer.
- Applicable for car parks or other areas trafficked only by cars or LGVs. Infrequent accidental load from heavier vehicles may be possible.

- This category should be used when considering landscaped areas that may be trafficked by ride on mowers.
- Including 200mm concrete slab.

#### 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.