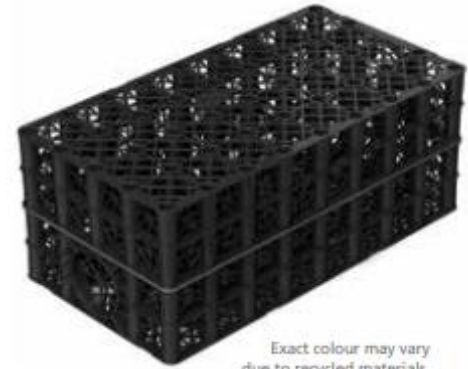




# 190L Soakaway Crate

- Made from specially selected and controlled recycled materials
- Environmentally friendly, sustainable solution
- Has undergone stringent testing to ensure product performance
- Compressive strength of 61 tonnes/m<sup>2</sup>
- Ideal for retention, attenuation and infiltration applications with a suitable geomembrane or geotextile



Exact colour may vary due to recycled materials.

ELEMENT	VALUE
<b>PHYSICAL PROPERTIES</b>	
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m <sup>3</sup>
Unit weight	9kg (approx)
Unit storage volume	0.19m <sup>3</sup> (190 litres)
Void ratio	95%
<b>SHORT TERM COMPRESSIVE STRENGTH</b>	
Vertical	610 kN/m <sup>2</sup> **
Lateral	63 kN/m <sup>2</sup> **
<b>SHORT TERM DEFLECTION</b>	
Short-term vertical deflection	60 kN/m <sup>2</sup> per mm
<b>LONG TERM DEFLECTION</b>	
Estimated long term vertical deflection (creep)	0.2798 Ln (design life in hrs) +0.485 [Based on an applied test load = 162 kN/m <sup>2</sup> ] Creep data limit 60 years
Estimated long term lateral deflection (creep)	1.0192 Ln (design life in hrs) -3.864 [Based on an applied test load = 30.8 kN/m <sup>2</sup> ] Creep data limit 60 years

**RECOMMENDED MAXIMUM DEPTH OF INSTALLATION (to cell invert) [m]**

TYPICAL SOIL TYPE	TYPICAL ANGLE OF SHEAR RESISTANCE	SOIL WEIGHT kN/m <sup>3</sup>	WITHOUT GROUNDWATER (below base of cells) NORMAL CASE		WITH GROUNDWATER AT 1M BELOW GROUND LEVEL AND UNITS WRAPPED IN GEOMEMBRANE	
			Pedestrian	Trafficked (cars) <3000kg GVW	Pedestrian	Trafficked (cars) <3000kg GVW
Stiff over consolidated clay e.g. London clay	24	20.0	2.2	1.9	1.8	1.6
Normally consolidated silty sandy clay e.g. alluvium, made ground	26	19.0	2.4	2.2	1.9	1.7
Loose sand and gravel	30	18.0	3.0	2.7	2.0	1.9
Medium dense sand and gravel	33	19.0	3.2	2.9	2.0	1.9
Dense sand and gravel	38	20.0	3.7	3.5	2.1	2.0

April 11, 2024

Spudulica Home & garden Ltd, Crystal House, Wirral, CH44 7ER 0151-515-1415