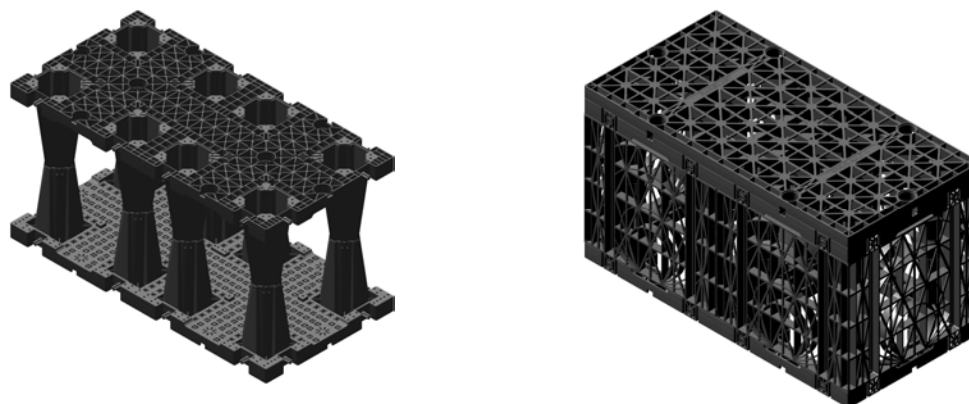


RAINSMART® STORMVAULT-R



Stormvault-R Dimensions and Storage

Module (Unit)	Width (mm)	Length (mm)	Height (mm)	Unit Volume (L)	Water Storage Volume (L)
Single (1)	385	770	410	121.54	115.47
Double (2)	385	770	810	240.12	228.12
Triple (3)	385	770	1210	358.70	340.77
Quad (4)	385	770	1610	477.28	453.42

**** Greater Depth units are also available.**

Stormvault-R Design Data

Item	Description	Value	Unit
Void Area	Area available for water storage vs. that made up of plastic	>95	%
Surface Void Area	Open area where water may percolate in or out of the units	>95	%
Service Temperature	Operating temperature where the units can be expected to perform adequately	07 to 60°C	°C
Material Content	85 % Prime Recycled Polypropylene + 15% proprietary mix Virgin in Nature	100%	%
Biological & Chemical Resistance	Unaffected by moulds, algae, Soil borne Chemical, bacteria and bitumen, polypropylene is very inert	**	**
Short Term Compressive Strength	Short Term Vertical Compressive Strength*	45.00	tons/sqm
	Short Term Lateral Compressive Strength*	26.42	tons/sqm
Short Term Deflection	Vertical Deflection at peak load	65.20 kN/ m ²	Per mm
	Lateral Deflection	12.80 kN/m ²	Per mm
Long Term Deflection	Estimated long term deflection (vertical creep) projected 50 yrs ** applied test load of 145 kN / m ²	1.08% (3.88mm)	145 kN/m ²
	Estimated long term deflection (lateral creep) projected 50 yrs ** applied test load of 32kN/m ²	1.41% (8.46 mm)	32 kN/m ²

***All compressive strength at yield to be used for safe design, maximum recommended safe design value, safety factors to be incorporated.**

****Derived from long term Extrapolated Creep testing data, 516 days minimum**

NOTE: All 'RAINSMART' Products and Systems are DESIGN REGISTERED.

Safety Factors: Engineers, designers and geotechnical engineers should design and calculate safety factors to a serviceable limited state to suit specific project. In case of doubt, consult your nearest distributor or representative.

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