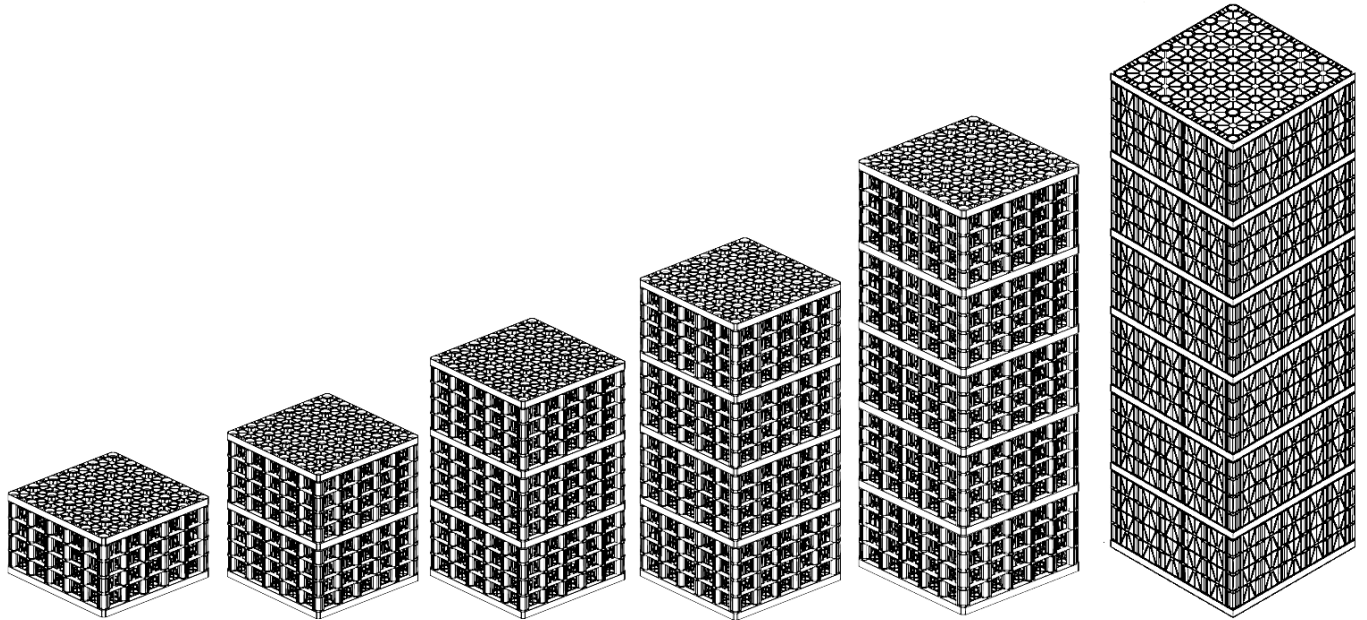


RAINSMART® STM-02- R MODULE SPECIFICATION SHEET.

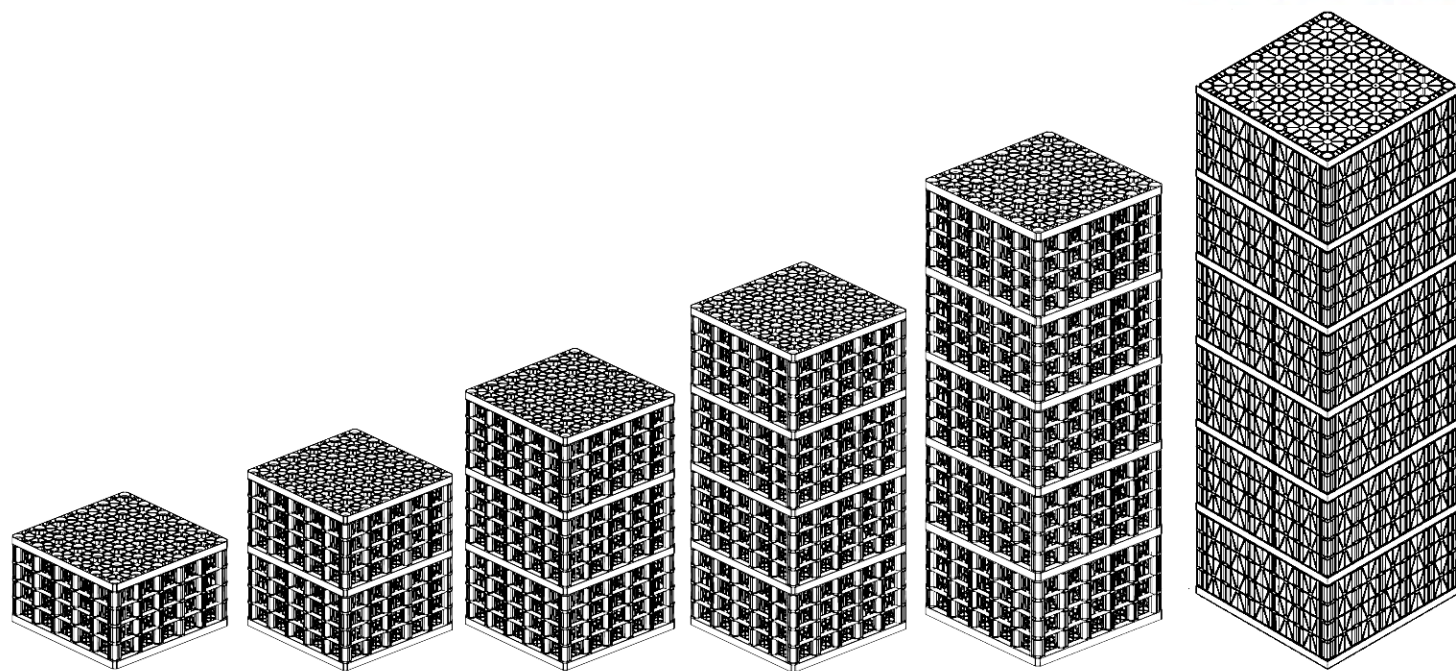


Module Dimensions:

Module (Unit)	Width (mm)	Width (inches)	Length (mm)	Length (inches)	Height (mm)	Height (inches)
Single (1)	600	23.62	600	23.62	360	14.17
Double (2)	600	23.62	600	23.62	690	27.16
Triple (3)	600	23.62	600	23.62	1020	40.15
Quad (4)	600	23.62	600	23.62	1350	53.15
Penta (5)	600	23.62	600	23.62	1680	66.14
Hexa (6)	600	23.62	600	23.62	2010	79.13

Module Storage:

Module (Unit)	Tank Volume (L)	Tank Volume (cf)	Tank Volume (gal)	Water Storage Volume (l)	Water Storage Volume (cf)	Water Storage Volume (gal)
Single (1)	129.60	4.57	34.23	123.12	4.35	32.52
Double (2)	248.40	8.77	65.62	235.98	8.33	62.34
Triple (3)	367.20	12.97	97.00	348.84	12.32	92.15
Quad (4)	486.00	17.16	128.38	461.70	16.30	121.97
Penta (5)	604.80	21.36	159.77	574.56	20.29	151.78
Hexa (6)	723.60	25.55	191.15	687.42	24.27	181.60



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 (-44 to 140°F)	°C (°F)
Material Content	90% Post Industrial Selected Polypropylene + 10% 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*	85 (120.80)	tons/sqm (PSI)
	Short Term Lateral Compressive Strength*	9.5 (13.51)	tons/sqm (PSI)
Short Term Deflection	Vertical Deflection	54.80 kN/ m ²	Per mm
	Lateral Deflection	3.2 kN/m ²	Per mm
Long Term Deflection	Estimated long term deflection (vertical creep) projected 50 yrs ** <i>applied test load of 135 kN / m²</i>	1.08% (3.88mm)	135 kN/m ²
	Estimated long term deflection (lateral creep) projected 50 yrs ** <i>applied test load of 23kN/m²</i>	1.41% (8.46 mm)	23 kN/m ²

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

**Derived from long term Extrapolated Creep testing data, 516 day 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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