

# RAINSMART

## STORMWATER MODULES

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### DESCRIPTION

Modular systems designed for in-ground water storage and or water detention for peak flow events. RainSmart system can be designed to conform to most shapes and sizes to suit site conditions, and are simply stacked into a matrix of modules to create the desired storage volume.

### APPLICATION

Application includes in-ground water storage and water flow detention.

### TYPICAL PROPERTIES - SYSTEM DIMENSIONS

MODULE (units)	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)	TYPICAL MODULE VOLUME (Litres)	TYPICAL WATER STORAGE VOLUME (Litres)
Single (1)	400	715	440	125.77	119.47
Double (2)	400	715	860	245.94	233.64
Triple (3)	400	715	1280	366.08	347.77
Quad (4)	400	715	1700	486.29	461.97
Pent (5)	400	715	2120	606.32	576.00
<b>INTERNAL VOID RATIO</b>				95% void	
<b>MATERIAL</b>				85% Recycled Polypropylene + 15% Proprietary Mix	
<b>BIOLOGICAL &amp; CHEMICAL RESISTANCE</b>				Unaffected by moulds and algae, soil borne chemicals, bacteria and bitumen.	
<b>SERVICE TEMPERATURE</b>				-10°C to 75°C	
<b>FLOW RATE</b>				0.040 m <sup>3</sup> /sec	
<b>Ultimate Load / Unconfined Crush Testing:</b> (Results for standard units with 4 large & 4 small plate tanks, also 4 large & 5 small plate tanks)				<b>Crush Load - 4 Plate Module : 22.88 t/m<sup>2</sup></b> <b>Crush Load - 5 Plate Module : 26.16 t/m<sup>2</sup></b>	

- RainSmart System is a design registered or design registered pending system of RainSmart Pty Ltd.
- Crush load figures are typical figures taken from full scale testing at the materials testing laboratory of the University of Technology, Sydney. As with any polymer based system actual crush loads can vary slightly from batch to batch. Designers should apply an appropriate reduction factor to the ultimate load based on the application. Cirtex can supply specific batch testing reports if required.

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