

Product Data

Product Data	Standard VersaVoid Module (500mm x 500mm x 550mm)
Application	Stormwater Management
Average Weight	9.9Kg
Compressive Strength*	320kN/m ²
Lateral Strength*	295kN/m ²
Long Term Creep Testing**	200kN/m ²
Void Ratio	96%
Surface Void Ratio	Greater than 90%
Minimum Backfill Cover***	450mm
Maximum Backfill Cover	5000mm
Material	Polypropylene
Chemical Resistance	Good
Bacterial Resistance	Good
UV Resistance	Good

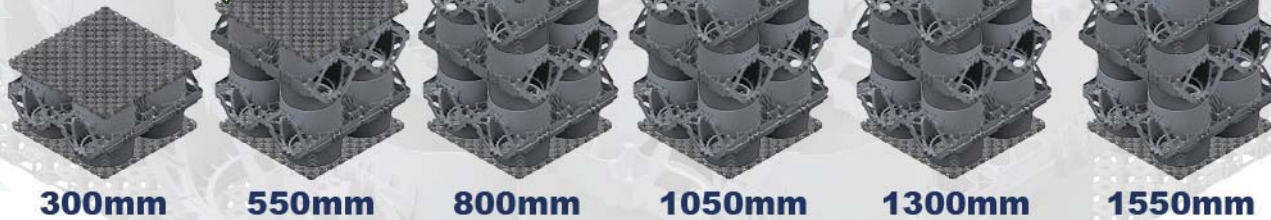
*A separate loading test using a 300mm plate (to simulate the direct loading of a HGV tyre footprint as specified in Ciria C680) has also been undertaken which gives a compressive strength of up to 475kN/m². Full test results available on request.

VersaVoid's unique modular properties allow it to be easily increased in depth. And because it only needs outer plating above and below the installation as opposed to between every layer, deeper modules provide an even better void ratio (see table below). This gives the general rule of thumb that the deeper the VersaVoid tank, the better the value provided.

*Modules tested using UKAS calibrated test machine, range 0-60 tonne, UDL, loading rate 0.2kN/m².

**Modules tested for long term creep testing for 90, 180 days and new ongoing test for 208 days.

***Any cover less than 450mm - contact ESS Technical Department.



Module Sizing and Volume Data

VersaVoid Module Dimensions*			No. of units per m ³	Gross unit volume	Net unit volume (storage capacity)
L	W	H			
500mm	x 500mm	x 300mm	13.33	0.075m ³	0.0713m ³
500mm	x 500mm	x 550mm	7.27	0.1375m ³	0.1306m ³
500mm	x 500mm	x 800mm	5	0.2m ³	0.19m ³
500mm	x 500mm	x 1050mm	3.81	0.2625m ³	0.2494m ³
500mm	x 500mm	x 1300mm	3.07	0.325m ³	0.3088m ³
500mm	x 500mm	x 1550mm	2.58	0.3875m ³	0.3681m ³

* Height of modules can be increased in increments of 250mm to the achieve required height - contact ESS design team.

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