

PLUVIAL CUBE HEAVY DUTY MODULE – DATA SHEET

Pluvial Cube Module Dimensions* (mm)	Module Configuration	Units per m ³	Module Volume (m ³)	Storage Volume (m ³)
500 (L) x 500 (W) x 550 (D)	Single	7.27	0.1375	0.132
500 (L) x 500 (W) x 1075 (D)	Double	3.72	0.2688	0.258
500 (L) x 500 (W) x 1600 (D)	Triple	2.5	0.4	0.384

* Bespoke modules with different configuration available



Single Module



Double Module



Triple Module

Product Data	Heavy Duty Pluvial Cube Module
Application	Stormwater Management
Average Weight (kg) – single module	8
Compressive Strength* (kN/m ²)	400
Lateral Strength* (kN/m ²)	225
Creep Rupture Strength (kN/m ²)	317
Creep Rupture Lateral Strength (kN/m ²)	201
Long Term Creep Testing** (kN/m ²)	200
Void Ratio (%)	96
Surface Void Ratio (%)	Greater than 90
Minimum Backfill Cover Landscaped areas# (mm)	450
Material	Polypropylene
Chemical resistance	Good
Bacterial Resistance	Good
UV Resistance	Good

Note: Other Modules with Compressive Strength more than 1500 kN/m² available

* Modules tested using UKAS calibrated test machine, range 0 – 60 Tons, UDL, loading rate 0.2 kN/m²

** Modules tested for long term creep testing for 90, 180 and 208 days / 5000 hours = 50 years design life.

Any cover less than 450 mm and for Min. backfill cover for trafficked areas – contact ESS design department

Maximum depth to invert based on soil type dense sand and gravel for different soil type–contact ESS design department

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Solutions House, Dane St.
Rochdale, OL11 4EZ,
Tel: 01706 374416
Fax: 01706 376785
Email: sales@alderburgh.com

