



# Technical Data Sheet

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## HYDROSOIL GREEN ROOF SUBSTRATE

### Product properties

	Units	
pH <sup>1</sup>		7.7
Electrical conductivity (1:2.5 water)	µS/cm	1500
	mS/m	150

### Organic matter<sup>2</sup>

Organic matter	% dry matter	3.5
Nitrogen as N	% m/m	
Total extractable	mg/l	1200
Ammoniacal Nitrogen NH <sub>4</sub> <sup>+</sup>	mg/l	13
Nitric nitrogen NO <sub>3</sub>	mg/l	2
NH <sub>4</sub> + NO <sub>3</sub> - N as N	mg/l	15

### Phosphorus as P

Total extractable	% m/m	474
CAT-extractable <sup>3,4</sup>	mg/l	8

### CAT - Extractable<sup>3,4</sup>

Potassium as K	mg/l	310
Magnesium as Mg	mg/l	53
Iron as Fe	mg/l	19
Manganese as Mn	mg/l	8
Sulphur as S	mg/l	35
Copper as Cu	mg/l	0.15
Zinc as Zn	mg/l	6
Boron as B	mg/l	1.2
Cation Exchange Capacity	me/l	24

### Particle size distribution (% air-dry sample passing)

16.0mm	100
8.0mm	100
4.0mm	91
2.0mm	7
1.0mm	4



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### Air : Water Relations (%v/v)

<i>10cm (10 millibars) tension</i>	
Water Holding Capacity	24
Air Filled Porosity	50
<i>50cm (50 millibars) tension</i>	
Water Holding Capacity	24
Air Filled Porosity	49
Weeds & Seeds	Nil
Stability mg CO <sub>2</sub> / gOM	1.3

<b>Weight Saturated</b>	kg / m <sup>3</sup>	1000
<b>Settlement<sup>5</sup> Vegetated (non-vegetated)</b>	%	Nil (Nil)
<b>Nutrient Run-off<sup>4</sup></b>		
Nitric Nitrogen as N	ppm	0.1 (47)
Phosphorus as P	ppm	0.05 (14.5)

### Notes

- 1 1:5 aqueous extract: this should not be compared with the pH of peat products (the optimal pH of peat products is much lower than for soils and composted materials).
- 2 Organic Matter (as loss on ignition / dry matter basis).
- 3 Plant available.
- 4 'CAT' – aqueous solution of calcium chloride + DTPA (cheating agent) - an extractant originally developed for soils and now specified in UK and European standards for composted materials (eg PAS 100) because it is more appropriate for most nutrients than the water-extraction method originally developed for peat products only.
- 5 After 6 months intensive irrigation.
- 6 At 0.98K Pa.

Hydrosoil Green Roof Substrate is a blend of well-matured green compost to PAS 100 standards and graded, dust-free reclaimed virgin brick fines. All materials are sustainable/recycled and UK-sourced for minimum carbon footprint.

### Packaging

Tote bags: 1.0 m<sup>3</sup>

20 litre heat sealed sacks (50 bags – 1m<sup>3</sup> – per pallet).