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Green Roof Substrates Limited

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ULTRALITE (INTENSIVE) SUBSTRATE - TECHNICAL DATA SHEET

DESCRIPTION: Lightweight substrate made from sustainable aggregates and green waste compost.

APPLICATION: General purpose green roof growing media for intensive green roofs.

- Lightweight intensive substrate
- Substrate for planters and green walls
- Suitable for rooftop gardening

TECHNICAL INFORMATION (TYPICAL)

Sieve Size (mm)	% Passing
13	96
5	40

pH value: 8.5

Total pore volume: 52 - 60%

Soil Organic Matter (SOM): 9.5%

Maximum water holding capacity 43.4% vol.



Photo Courtesy: The Office Group

Unit	Weight (kg)		
	Dry Driest days in summer	FLL Maximum water capacity	Fully Saturated Design maximum
m ³	680	1150	1300
1 sq m @ 100mm	68	115	130
1 sq m @ 25mm	17	29	33

PACKAGING

Supplied by bulk tipper load, in multi trip 1 m³ big bags and 25kg sacks (30 per m³)

The above information is issued in good faith and without warranty and is intended as a guide only. The information comprises typical data and does not constitute a specification.



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The manufacturing process

This substrate is manufactured by combining a BS3882:2015 compliant loam topsoil made with PAS100 green waste compost blended with specially graded sustainable aggregates. In the case of this substrate it is lightweight expanded clay aggregate mixed with specially crushed aircrete sourced directly from the supplier of autoclaved blocks. Damaged or cracked blocks that cannot be supplied to house builders are set aside and crushed to our specification for use in green roof growing media.

BSI PAS 100 Green Waste Compost

Where the growing media incorporates compost it is derived from a sustainable source, normally green waste compost to PAS 100, derived from horticultural wastes collected during municipal works, e.g. hedge trimming, etc.



River of Flowers exhibited the Honeycomb Meadow Bee Garden with this substrate at the RHS Chelsea Flower Show 2018 and won a Silver Medal!