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Green Roof Substrates Limited

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TECHNICAL DATA SHEET

PRODUCT NAME: ULTRALITE SUBSTRATE

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

APPLICATION: General purpose green roof growing media for green roofs where weight is a concern.

- Substrate for sedum mat
- All kinds of extensive green roof, e.g. NBS Q37 Clause 390
- Simple intensive green roofs, e.g. NBS Q37 Clause 380
- Small domestic green roofs

TECHNICAL INFORMATION (TYPICAL)

Sieve Size (mm)	% Passing
13	96
5	40

pH value: 8.5

Total pore volume: 52 - 60%

Soil Organic Matter (SOM): 6.0%

Maximum water holding capacity 43.4% vol.



Photo Courtesy: The Office Group Holdings Ltd

Unit	Weight (kg)		
	Dry Driest days in summer	FLL Maximum water capacity	Fully Saturated Design maximum
m ³	490	924	1014
1 sq m @ 100mm	49	92.4	101.4
1 sq m @ 25mm	12.3	23.1	25.35

PACKAGING

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



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The manufacturing process

The manufacture of aircrete blocks generates a percentage that do not meet the rigorous quality standards required for house building, for instance because of cracks or other damage and are scrapped. These cannot easily be reprocessed and they are set aside and crushed for use in other applications, e.g. as lightweight aggregates, including use as green roof growing media.

In this substrate the aircrete is blended with lightweight expanded clay aggregate.

Green 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.



Photo Courtesy: Nicole Gordon, The Office Group Holdings Ltd