



Unit 31, Nutham Lane
 Southwater
 West Sussex RH13 9GG
 Tel/fax: 01403 732186
 e-mail: info@greenroofsubstrates.co.uk

Green Roof Substrates Limited

www.greenroofsubstrates.co.uk

TECHNICAL DATA SHEET

- PRODUCT NAME:** BIODIVERSITY SUBSTRATE
- PRODUCT DESCRIPTION:** Lightweight substrate made from coarse recycled brick and aircrete, green waste compost and medium clay soil.
- PRODUCT APPLICATION:** General purpose green roof growing media for biodiversity and brown roofs
- Also for localised areas of biodiversity on extensive and intensive roofs

TECHNICAL INFORMATION (TYPICAL)

Size

Sieve Size (mm)	% Passing
16	78
4	50
<0.063	12.9

pH value: av. 8.78
 Total pore volume: 45 - 55%
 Soil Organic Matter (SOM): 3.7%
 Maximum water holding capacity 32.9 % vol.



Photo Courtesy: Frost Landscapes Limited

Unit	Weight (kg)		
	Dry Driest days in summer	FLL Maximum water capacity	Fully Saturated Design maximum
m ³	935	1264	1500
1 sq m @ 100mm	94	126	150
1 sq m @ 25mm	23.4	31.6	37.5

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 house bricks and 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 or for use as green roof growing media.

The bricks used for this substrate are manufactured with Victorian wastes from London collected the 1880's and transported to the brickworks by Thames barge. The characteristics of the crushed brick used for biodiversity include some larger size pieces to provide shade and microclimates for plants and invertebrates.

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.



The Whittington Park changing rooms, Whittington Park, London N19

Photo Courtesy: Permanite Ltd