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Green Roof Substrates Limited

www.greenroofsubstrates.co.uk

TECHNICAL DATA SHEET

- PRODUCT NAME:** EXTENSIVE SUBSTRATE
- PRODUCT DESCRIPTION:** Lightweight substrate made from recycled bricks, compost and medium clay soil.
- PRODUCT APPLICATION:** General purpose green roof growing media for extensive green roofs
- Substrate for sedum mat (25-60m)
 - All kinds of extensive green roof, e.g. NBS Q37 Clause 390
 - Simple intensive green roofs, e.g. NBS Q37 Clause 380
 - Biodiversity roofs and small domestic green roofs

TECHNICAL INFORMATION (TYPICAL)

Sieve Size (mm)	% Passing
16	99.5
4	66.8
<0.063	15

pH value: av. 8.4

Total pore volume: 47 - 60%

Soil Organic Matter (SOM): 6.5%

Maximum water holding capacity 30% vol.



Photo Courtesy: Bere.architects

Unit	Weight (kg)		
	Dry Driest days in summer	FLL maximum water capacity	Fully Saturated Non-FLL method
m ³	870	1170	1445
1 sq m @ 100mm	87	117	145
1 sq m @ 25mm	21.7	29.3	36.1

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 generates a significant percentage of bricks 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.

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: Permanite Ltd

Adnams Cellar & Kitchen (Southwold, Suffolk)

4.2m³ of extensive substrate were supplied on behalf of Permanite Engineered Roofing Systems in 25kg sacks as access to the roof was rather difficult with bags needing to be moved manually. The roof was completed with sedum matting and has matured nicely with a lush carpet of sedum. The contractor was T H Moss & Sons Ltd.