



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

**Green Roof Substrates Limited**

[www.greenroofsubstrates.co.uk](http://www.greenroofsubstrates.co.uk)

## TECHNICAL DATA SHEET

**PRODUCT NAME:** INTENSIVE SUBSTRATE

**PRODUCT DESCRIPTION:** Lightweight substrate made from recycled brick, compost and medium clay soil.

**PRODUCT APPLICATION:** General purpose green roof growing media for intensive greening

- Intensive green roofs, including roof gardens, e.g. NBS Q37 Clause 370
- Simple Intensive green roofs, e.g. NBS Q37 Clause 380
- Small domestic green roofs
- Localized areas on biodiversity roofs to change vegetation.

### TECHNICAL INFORMATION (TYPICAL)

Sieve Size (mm)	% Passing
16	96
4	37
<0.063	15

pH value: av. 8.47

Total pore volume: 49 - 60%

Soil Organic Matter (SOM): 9.2%

Maximum water holding capacity 33.5% vol.



*Photo Courtesy: TIGA Europe Limited*

Unit	Weight (kg)		
	Dry Driest days in summer	At Maximum Water Capacity	Fully Saturated Design maximum
m <sup>3</sup>	875	1210	1493
1 sq m @ 100mm	88	121	149
1 sq m @ 25mm	21.9	30.3	37.3

*Following the FLL method for measuring saturated bulk density we obtained a bulk density of 1380kg/m<sup>3</sup>*

### PACKAGING

Supplied by bulk tipper load, in multi trip 1 m<sup>3</sup> big bags and 25kg sacks

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. Specification values are available separately upon request.



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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.



### **Intensive Substrate used with planted shrubs and meadow flowers**

“Shire provided me with authoritative advice on soil weights, depths and constituents for both my extensive and intensive roofs. They were able to provide local materials from the south east and they were able to deliver the 20 tonnes of soil on an articulated lorry with its own forklift. Everything from the first enquiry to the final delivery was carried out in a very professional way”.

Justin Bere  
Director

bere:architects  
24 Rosebery Avenue  
London EC1R 4SX