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Green Roof Substrates Limited

www.greenroofsubstrates.co.uk

TECHNICAL DATA SHEET

PRODUCT NAME: Drainage Layer 0-20LWA

PRODUCT DESCRIPTION: Lightweight expanded clay aggregate

PRODUCT APPLICATION:

- Green roof drainage layer (FLL)
- Geotechnical and Civil Engineering Projects
- Horticulture, including planters

TECHNICAL INFORMATION (TYPICAL)

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 20 | 100 |
| 16 | 95 |
| 14 | 82 |
| 12.5 | 76 |
| 10 | 53 |
| 8 | 26 |
| 6.3 | 9 |
| 5 | 2 |

pH value: 6.5-7.5



| | |
|-------------------------------------|-----------------------------|
| Dry Loose Bulk Density | 320 kg/m³ |
| Dry Density after compaction | 353 kg/m³ |
| Particle Density | 550 kg/m³ |
| Typical Moisture % ww | 0 – 20% |

PACKAGING

Supplied bulk tipper, in multi trip 1 m³ Big bags or 50 ltr sacks



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The manufacturing process

Shire LWA is produced by a sophisticated pyrogenic technology whereby clay is expanded in a rotary kiln at a specifically controlled temperature and rate of flow. Each individual clay nodule is composed of hundreds of minute air cells contained within a hard, strong, ceramic shell. As an aggregate it is incredibly light, strong, totally inert and when used in block production, transfers the same benefits giving excellent thermal, acoustic, strength and fire resistance characteristics.

| Typical Chemical Analysis | % |
|----------------------------------|----------|
| Silica | 60 |
| Alumina | 20 |
| Ferric Oxide | 8 |
| Calcium Oxide | 3 |
| Magnesia | 3 |
| Sulphuric Oxide | 0.5 |
| Potassium Oxide | 3 |
| Titanium Oxide | 1 |
| L.O.I | <0.5 |
| Others | 1 |