



LANDTECH SOILS
Urban Greening Solutions



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Green roofs differ from a natural environment as they are on top of a building and are not connected to the natural soil, all of the range of Glas Green Roof Growing Media are engineered to be lightweight and the performance characteristics have been optimally specified for this unique environment. It is critical that green roof soils can drain and retain water simultaneously and that they work even in very shallow systems Glas Green Roof Media must also function in the long-term without jeopardizing the building below. The planting medium must provide a stable structure for the anchorage of the plants' root systems while remaining as lightweight as possible to prevent excess loading of the roof structure. The planting medium must also be water permeable, retain water, resist rot, provide nutrients, and possess many chemical, physical, and biological characteristics necessary for supporting and sustaining vegetation.

Specifications

Soil specifications for a green roof are determined by a number of factors, including allowable depth and weight, climate and whether the roof will be irrigated. To keep costs down and ensure success we aim to, where possible use locally available materials which are suited to the specific plants that are to be grown. Healthy plant growth and proper green roof performance strongly depend on using the right growing media. The soil's chemistry – its reactions and its soluble mineral and biochemical transformations – greatly influence green roof longevity and plant performance. Soil pH is one of the most important factors in plant growth and we aim to produce a pH of 6.0 to 7.5 in all of our garden roof soil.

Volume & Compaction

All of our substrate products are sold by volume and measured in cubic meters. When estimating substrate quantities, the required finished depth or thickness is just as critical a measure as the area to cover. Unlike other roofing materials, green roof growth media will compact, and this compaction factor must be planned for when estimating your needs. With multiple products and mixes, typical compaction rates can vary by product, but usually fall between 15 and 20% by volume. It is advisable to discuss experienced compaction factors with us when requesting quotations or ordering green roof materials.

Find Out More At
www.landtechsoils.ie

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Technical Specifications:

The main components are chosen from a selection of materials from the following;- Expanded shale, LECA expanded clay, pumice, crushed brick, Lytag, sterilised soil and green waste compost, in different compositions depending on availability and project requirements.

Typical properties:

- Max. moisture capacity: ≥ 35 % by vol.
- pH value: 6.0 – 8.5
- Salts content: ≤ 3.5 g/l
- Water permeability: ≥ 0.6 mm/min
- Compaction factor: organic substances: < 65 g/l
- Approximate Total pore volume: $> 60 - 70$ % by vol.
- Compacted weight: Dry: Min. 800 kg/m^3 Saturated: max. 1450 kg/m^3
- Meets the requirements of the FLL Directive for green roofs.

Delivery available: Bulk delivered – by tipper truck and in Mini Bulk Bags.

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