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Icopal Lightweight Top Soil

Green Roof Systems

Introduction

It is important to have a good quality soil mix which is specifically designed for green roofs. The soil must be lightweight, free draining, and water retentive. It should contain sufficient nutrition for healthy plant growth and be slow to breakdown.

Standard

Icopal Lightweight Top Soil is tested and certified as a multi-purpose top soil to "BS3882:2007. Specification for topsoil and requirements for use".

Description

Icopal Lightweight Top Soil is a finely graded nutrient rich lightweight top soil suitable for use on intensive roof systems, lawns and in planters. Icopal Lightweight Top Soil is peat-free and contains organic PAS100 certified material.

Application

Icopal Lightweight Top Soil is for use in conjunction with the relevant specified components of the associated Icopal green roof system.

The roof deck and any associated planters should have sufficient drainage points to quickly drain away water to prevent ponding and substrate saturation.



Properties

Composition	Blend of topsoil, organic compost and sand
Sizes	1.25m3 IBC bulk bag; 25 kg sack
Grading	screened to 6 mm
Weight/Unit Area (dry)	1100 kg·m ⁻³
Weight/Unit Area (saturated)	1240 kg·m ⁻³
Compaction	30 %
Moisture Content	16 %
Classification	Root zone - Sandy Loam
pH Value	7.9 (approx.)

Preparation

Icopal Lightweight Top Soil should be installed onto an appropriate Icopal Drainage Board and filter layer to ensure the substrate remains free-draining to avoid saturation of the substrate.

Installation Details

Icopal Lightweight Top Soil should be laid to the required depth to be determined by the intended planting scheme. Icopal Lightweight Top Soil is typically installed at a minimum of 200 mm in lawn systems, and for small shrubs, and up to 1 metre in depth for trees.

It is recommended that gravel or paved borders are used to keep the planting away from any waterproofed upstands, and around roof equipment or structural openings/penetrations such as rooflights etc and to allow for maintenance access/inspection. The width of the border should be a minimum 300 mm, in accordance with GRO recommendations.

Installation Procedure

Icopal Lightweight Top Soil is delivered to site in 1.25 cubic metre IBC bulk bags and are generally lifted onto the roof by crane. The soil mix can also be delivered to site in bulk tippers or 25 kg bags, if required. The top soil should be firmed to reduce excess settlement, and levelled off using shovels and rakes. Icopal Lightweight Top Soil should not be installed, or walked upon in situ, if excessively wet. It is recommended that a mulch (e.g. bark or slate chips) is used on top of the top soil to reduce moisture loss, weed growth and "blowing" of the top soil in potentially windy situations.

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Typical Specification

Icopal Lightweight Top Soil is to be laid to a suitable depth to suit the planting type and green roof system, and installed above the relevant Icopal Drainage Board and filtration layer. Icopal Lightweight Top Soil should be laid in accordance with Icopal's instructions, and used with other relevant specified Icopal components.

NBS Specification

Icopal Lightweight Top Soil is specified using the following:

Clause: Q37/370

Product: Icopal Lightweight Top Soil.

Supplier: Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444.



Delivery

Icopal Lightweight Top Soil is delivered in 1.25 cubic metre IBC bulk bags. The bags are generally hoisted onto the roof by crane and the soil is poured onto the roof deck, where it is then raked level to the required depth. The substrate can also be delivered in bulk tippers or 25 litre bags as logistics demand and allow.

Technical Services

Specialist advice and design guidance on all matters relating to Icopal Lightweight Top Soil is freely available from our Technical Department at the address below.

Availability

Item Code	Description	Size
3101086	Icopal Lightweight Top Soil	25 kg (bag)
3101087	Icopal Lightweight Top Soil	1.25 m ³ (IBC)



NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice. Up to date information is available from our Technical Services Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume, based on information provided in this sheet, that the product is suitable for any abnormal use.

All products are sold subject to our standard conditions of sale, available on request.