

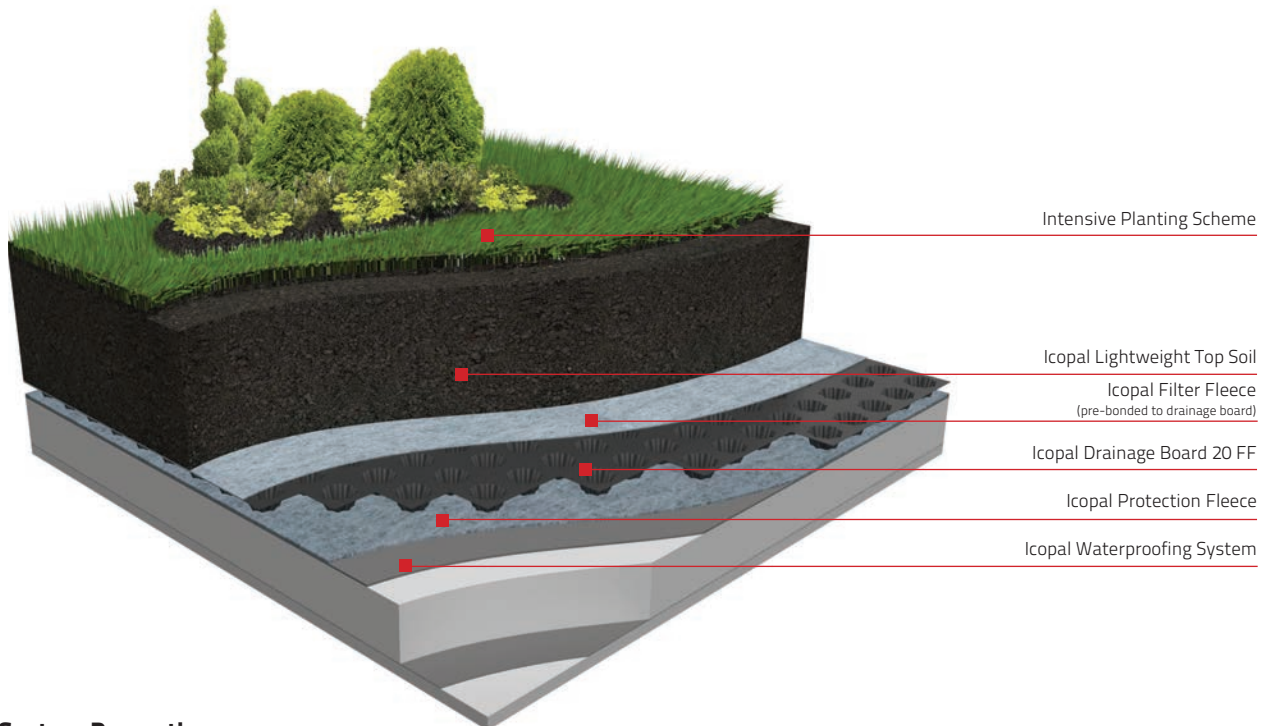


Icopal ST Intensive System



Code: 3101070

An intensive green roof system designed for ground cover, shrubs and trees. The depth of topsoil can be varied to accommodate the specific planting to be installed. The system composes of a specially formulated free-draining topsoil above a drainage board.



System Properties

The following data relates to the green roof element only.

System Dry Weight:	200 – 1100 kg/m ²
System Saturated Weight:	300 – 1500 kg/m ²
System Typical Depth:	250 – 1200 mm
Growing Substrate Depth:	200 – 1000 (settled)
Contouring:	to requirements

Biodiversity:	● ● ● ● ●
Pollen/Nectar Richness:	● ● ● ● ●
Habitat Provision:	● ● ● ● ●

Key Features

- Suited to structures with greater load-bearing capacity.
- Substrate depth varies to accommodate planting type.
- Low range of bio-diversity.
- Low provision of pollen to attract insects.
- Suited to flat roofs.
- Higher levels of maintenance required - in terms of irrigation, weeding and feeding.
- Used on podium decks as part of an Intensive roof garden system to provide a recreational space or visual space.



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Vegetation

The system creates a roof garden build-up where a variety of planting can be installed dependent upon design. The vegetation can be low growing ground cover, shrubs, bushes or even trees. The depth of the topsoil required for the final system will be dependent on the requirements of the planting.

General Notes

The system is suitable for both new build and refurbishment projects. Generally installed on flat roofs to a fall. Suited to structures with greater load-bearing capacity.

Detailing

A border with a recommended width of 300 – 500 mm of washed river stones (20 – 40 mm diameter) should be used around all roof penetrations, outlets, perimeters and system edges to provide a vegetation free zone.

Irrigation

Initial: Irrigation is required immediately after installation, until the plants are fully established. During the establishment period irrigation should be frequent to keep the substrate moist.

Once established: It is highly recommended that a suitable permanent irrigation system is installed to ensure the planting survives periods of hot dry weather.

Water Source: A roof top source with a pressure of 2.5 – 3 bar and a flow rate of 60 L/min is recommended to connect a temporary system if required.

Maintenance:

As with terrestrial gardens, the planting will need regular weeding and feeding during the growing season.

Weeds should be removed periodically through the year to reduce the likelihood that they become dominant. It is recommended that a suitable fertiliser is applied to keep the plants healthy. This may be a spring feed of slow/controlled release fertiliser to last the growing season, or more regular granular/liquid feeds throughout the growing season.



For more information please visit

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