

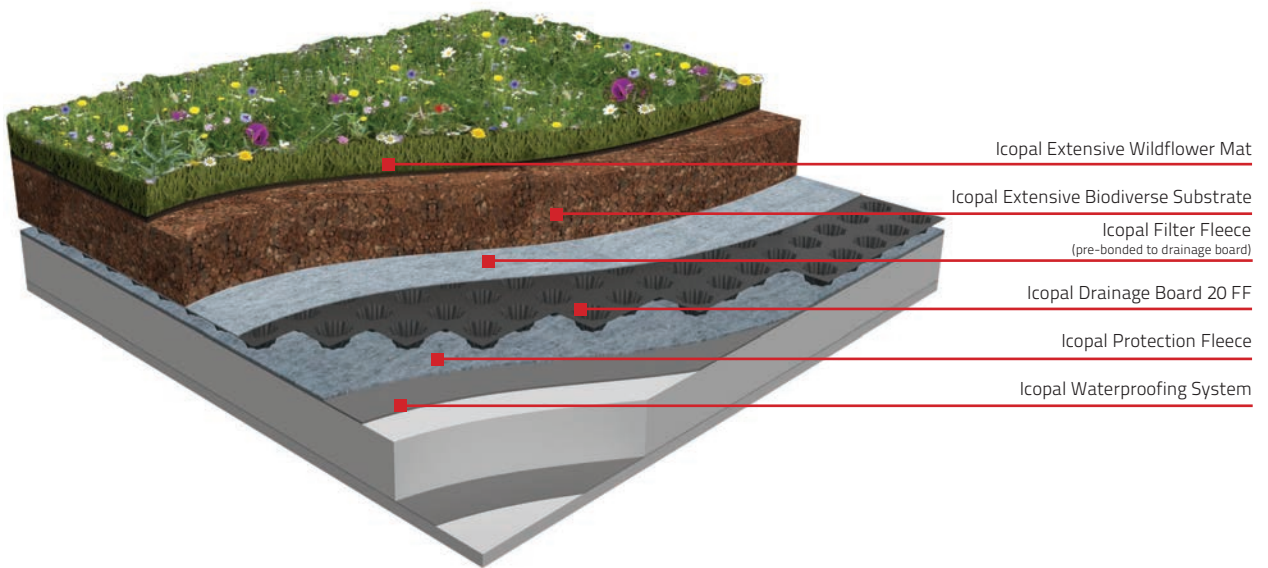


# Icopal ST Wildflower Mat System



Code: 3101063

An extensive lightweight green roof system utilising a pre-grown vegetation mat sown with a mix of thirty eight wildflower and grass species. Meadow systems are designed to create the look of a terrestrial wildflower meadow and the use of a pre-grown mat creates a green planting scheme with instant impact. The vegetation mat is installed on a shallow depth of specially formulated free-draining substrate and drainage board.



## System Properties

The following data relates to the green roof element only.

<b>System Dry Weight:</b>	120 kg/m <sup>2</sup>
<b>System Saturated Weight:</b>	165 kg/m <sup>2</sup>
<b>System Typical Depth:</b>	155 mm
<b>Growing Substrate Depth:</b>	100 mm (settled)
<b>Contouring:</b>	Flat/level



## Key Features

- A lightweight system suitable for a range of roof construction types.
- Attractive mix of wildflower and grass species.
- Taller flower/grass species to create better creature habitat.
- Moderate – high range of bio-diversity.
- Moderate – high provision of nectar and pollen to attract insects.
- Suitable for flat and shallow pitched roofs.
- Versatile system; quick and easy to install.
- Medium to low levels of maintenance.
- Pre-grown mat provides an instant green coverage.



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## Plant Species

The species of plants are chosen to provide visual interest with a wide range of flowering periods and food sources to attract a diverse range invertebrates.

## General Notes

The system is suitable for both new build and refurbishment projects. It can be installed on flat roofs and those with shallow pitches. On roofs with slopes over 9° a retention system is required. All slopes over 5° will require a mechanically fixed eaves edge restraint.

The system can be managed more heavily to produce a controlled "wildflower meadow" type environment. Alternatively, less management input may lead to the development of vegetation which progresses naturally relating to the prevailing conditions.

## 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 required immediately after installation for up to 8 – 12 months until fully established. Recommended irrigation period: 12 months. Pitched roofs retain less water and therefore a permanent irrigation system should be considered.

**Once established:** Irrigation is only generally required during prolonged 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:

An annual maintenance schedule is recommended to remove invasive plant and weed species, to check outlets are working correctly and to apply granular fertiliser.

Vegetation and flower growth is expected to be between 20 and 100 mm. It is recommended that the roof is strimmed in early spring and in autumn (after the flowers have dropped their seed) to remove the seasons growth and encourage spread of seed for the next season, all cuttings to be removed, to allow the roof to thrive.

**Flowering Period:** May – August.

**Typical Colours:** Seasonal variation of yellows, whites, reds and pinks. Foliage turns from green to brown in the autumn.

**N° of Species Sown:** 38.

**Typical Species Sown:** Wildflower and grass.

– Agrimony, Bird's Foot Trefoil, Bladder Companion, Crested Dog's Tail, Common Quaking Grass, Common Sorrel, Common Toadflax, Cowslip, Hoary Plantain, Kidney Vetch, Lady's Bedstraw, Ox-Eye Daisy, Perforate St John's Wort, Red Clover, Rough Hawkbit, Salad Burnett, Self-Heal, Small Scabious, Sweet Vernal Grass, Vipers Bugloss, Wild Marjoram, Thyme, Yarrow, Common Poppy, Cluster Bellflower, Harebell, Red Fescue, Brown Top Bent, Lesser Knapweed, Black Medic, Red Campion, Betony, Catsear, Yellow Rattle, Field Scabious, Meadow Buttercup, Cornflower, Corn Marigold.

## Flower Attraction

Moderate mixed pollen source, applicable to Bees – Mason, Honey Bombus spp; Insects – Chrysoperla (Lacewing), hoverfly (Episyrphus), Ladybird (Harmonia), Aphidius, Aphelinus, Aphidoletes (beneficial parasitic wasps).

**Establishment Period:** 6 – 8 months.

For more information please visit

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