

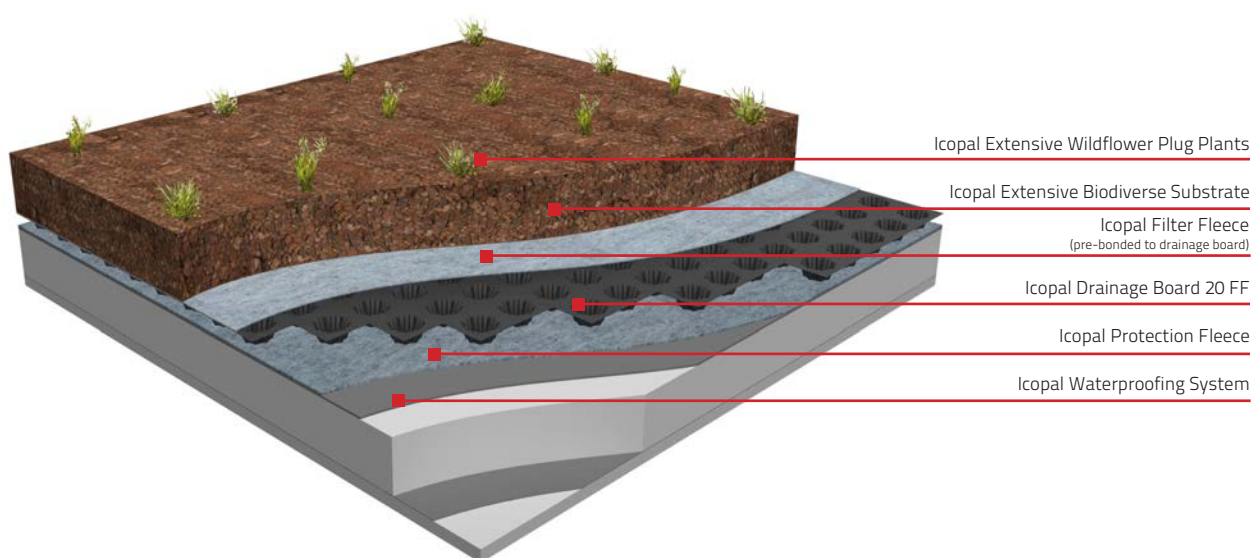


Icopal ST Wildflower Plug System



Code: 3101065

An extensive green roof system utilising a specially formulated free-draining substrate and drainage board. Immature plug plants are installed into the substrate and allowed to mature over time. This method gives more flexibility to the choice of planting scheme and the layout on the roof to suit project requirements.



System Properties

The following data relates to the green roof element only.

System Dry Weight:	125 kg/m ²
System Saturated Weight:	150 kg/m ²
System Typical Depth:	125 mm
Growing Substrate Depth:	100 mm (settled)
Contouring:	Flat/level

Biodiversity: ● ● ● ● ●

Pollen/Nectar Richness: ● ● ● ● ●

Habitat Provision: ● ● ● ● ●

Key Features

- A system suitable for a range of roof construction types.
- Attractive mix of wildflower and grass species.
- More flexibility for the layout and planting density.
- More cost effective than a pre-grown mat.
- Moderate – high range of bio-diversity.
- Moderate – provision of pollen and nectar to attract insects.
- Suitable for flat and low pitched roofs.
- Medium – low maintenance.



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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, generally no greater than 15°. 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 trimmed 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.

Planting Density: 20 plugs/sqm.

Typical Species: Wildflower and grass species.

– 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 and typically 24–36 months to achieve desired ground cover.

For more information please visit

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