

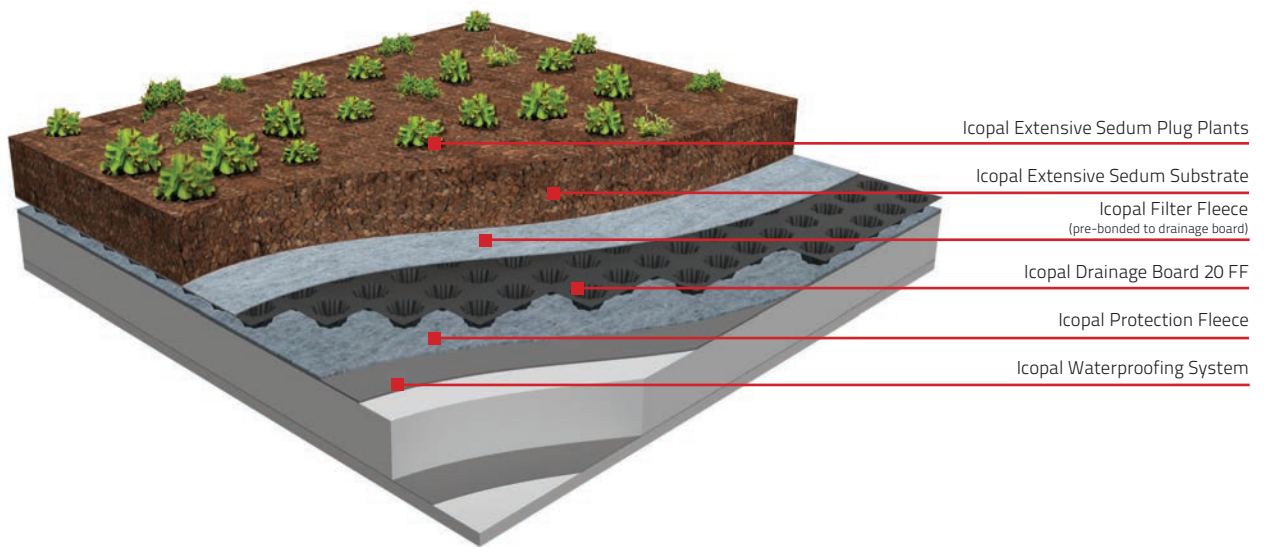


Icopal ST Sedum Plug System



Code: 3101064

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 and the layout density on the roof to suit project requirements.



System Properties

The following data relates to the green roof element only.

System Dry Weight:	95 kg/m ²
System Saturated Weight:	110 kg/m ²
System Typical Depth:	105 mm
Growing Substrate Depth:	80 mm (settled)
Contouring:	Flat/level



Key Features

- A lightweight system suitable for a range of roof construction types.
- Attractive mix of sedum species.
- More flexibility for the layout and planting density.
- More cost effective than a pre-grown mat.
- Sedum plants are low-growing.
- Moderate range of bio-diversity.
- Moderate provision of pollen and nectar to attract insects.
- Suitable for flat and pitched roofs
- Versatile system; quick and easy to install.
- Low maintenance and drought tolerant.



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Plant Species

Mixed UK provenance sedum plugs planted at random into the substrate at 18 – 20/sqm plant density. The sedum family of flowering plants are succulents and therefore have leaves which are able to store water. They are drought tolerant, and able to survive in extremes of conditions. They generally flower from early summer to autumn.

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.

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:

Sedum systems are designed to be low maintenance. Species selection ensures that the roof will evolve naturally, however 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.

Flowering Period: May – August

Typical Colours: Seasonal variation of yellows, whites, and pinks. Foliage turns from green to red in periods of plant stress.

Species: 8 – 12.

Planting Density: 18 – 20 plugs/sqm.

Typical Species: (subject to season variation)

– Sedum acre, Sedum album, Sedum ellacombianum, Sedum floriferum, Sedum forsterianum, Sedum hybridum, Sedum kantschaticum, Sedum montanum, Sedum reflexum, Sedum selskianum, Sedum sexangulare, Sedum spirium.

Flower Attraction

Low-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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