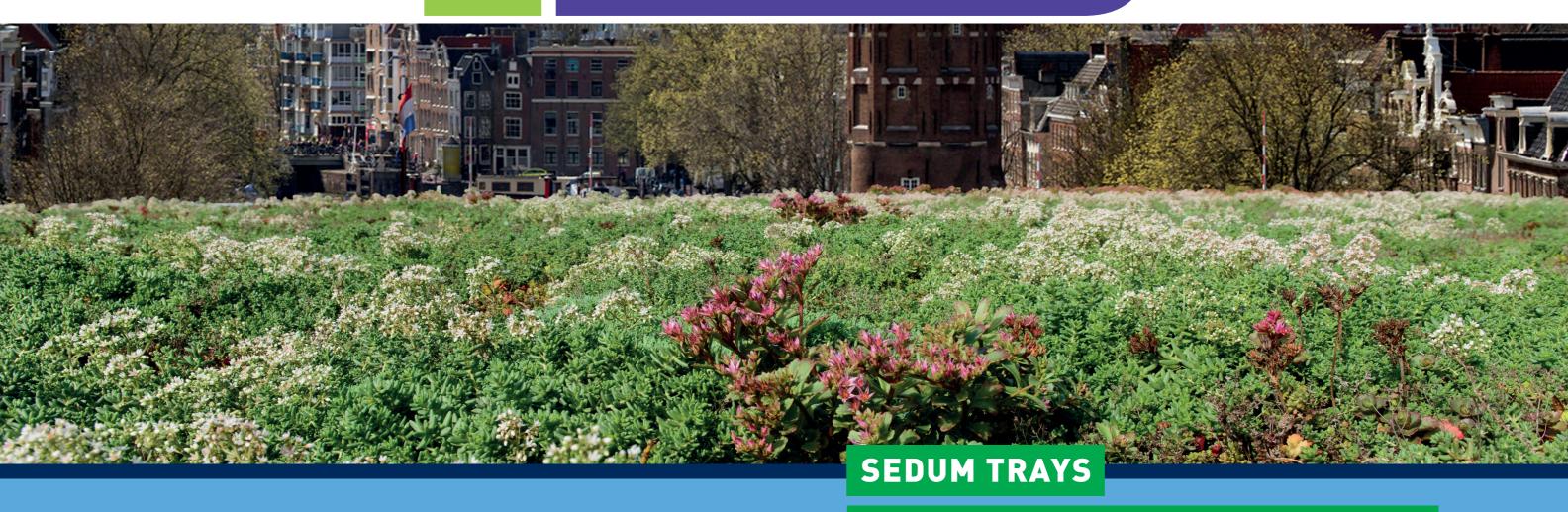
Koberg



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SUSTAINABLE AND PROFESSIONAL

SOLUTION FOR EXTRACTION AND

DESTRUCTION OF PARTICULATE MATTER,

WATER RETENTION, ISOLATION

AND BIODIVERSITY

SEDUM TRAYS: A CUSTOM READY PRODUCT



Sedum Trays are the sustainable and professional solution for extraction and destruction of particulate matter, water retention, isolation and biodiversity. They find their application in green rooftops, roof gardens, roundabouts, parkways, centre dividers and other green decorations.

Years of development and expertise are the foundation of the Sedum Tray (JST): a custom ready product that can be connected. Approximately 4 trays equals 1 m^3 .



- 100-gram particulate matter (PM_{50-1,2}) equal
 3.300 car kilometres (source; Alterra)
- 4,3 m² JST is needed for extraction of 100gram particulate matter (PM_{50-1,2}) (source University of Amsterdam)
- 1 ha of JST extract the particulate matter (PM₅₀₋₁₇) of 7,6 million car kilometres



Sedum plants

Each tray contains a wide selection of sedum plants. This shows a changing colour pallet throughout the four seasons.

Substrate

A special developed peat-free substrate and innovative fertilizer, guarantees a sustainable and low maintenance product.

Maintenance

Mowing is needed sporadically and watering only during periods of extreme heat or drought. The special nutrient, Urban Fertilizer, is needed twice to four times per year. Urban Fertilizer is based on Mycorrhiza and micro algae, amongst other things.

Lifespa

The expected lifespan of a JST is >10 years.

Capture and demolition of particulate matter

Particulate matter attach better to a sticky, rough, hairy and moisty surface. The sedum plants do have a characteristic lard wherefore particulate matter is extracted efficiently and absorbed in the soil. The sedum vegetation works as a kind of vacuum cleaner. The particulate matter is extracted in dry periods and absorbed in the soil in wet periods. Trees and bushes on the other hand, may influence the streaming patterns of the air in a way that the particulate matter stays in the residential surroundings.

The JST is the only sedum tray of which the extraction and destruction of particulate matter (up to 95%) has been proven by scientific research, executed by the University of Amsterdam. For the destruction of particulate matter it is necessary that Urban Fertilizer is added

Water retention capacity

Sedum Trays have a big water storage capacity. The shape of the tray, with the specially designed sub-strate, store a lot of water. The water is used by the plants for photosynthesis and growth.

The water storage capacity of a m 2 JST is 23,8 litre (source: RHP). The total weight of approximately 1m 2 JST is \pm 45 kilos (=4,3 trays + full water retention).



Insulation

One of the advantages of the Sedum Tray is the effect of insulation. In summer time the trays keep the heat out and in winter time they keep the heat in.

Increase of biodiversity

The variety of sedum plants make a blossoming possible during the season. This has a big attraction on bees.

Sedum Trays:



Not only suitable for various types of roofs, also for roundabouts and center dividers



An ideal combination with solar panels, provides a higher yield of 6-24%