



# MOBIROOF ECO

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MobiRoof ECO is a ready-made green roof system that consists of a plant cassette filled with substrate and 6 - 8 different types of Sedum. The cassettes are easily placed against each other, creating a green roof immediately. MobiRoof ECO is an extensive green roof system suitable for flat roofs and roofs with a slope angle of up to 10 degrees (20%) and is removable.

## READY-MADE CASSETTE

The unique lightweight cassette system is planted with different types of sedum plants and equipped with a substrate that, in addition to nurturing growth, ensures drainage and storage of water. An additional advantage of this system is that the cassettes are repositionable. The sedum roof can therefore be fully furnished to your liking.

## A SUSTAINABLE GREEN ROOF FOR A GREEN FUTURE

MobiRoof ECO is a circular green roof system. The cassette is made of recycled material and fully recyclable. This reduces environmental pressure and reduces waste flow. The cassettes are pre-grown locally with cuttings from our own nursery.

## SEDUM PLANTING

The cassettes are cultivated with multiple types of Sedum (including Album, Spurium and Reflexum). The cassette is filled with waterproof substrate. The planting improves air quality through CO2 reduction and captures particulate matter. UV rays no longer reach the roofing, significantly extending the life of the roofing material. In addition, the sedum cassette protects the roof from weather and the cassette absorbs water.

## MOBIROOF ECO MATERIALS



**Cassette:** The cassette is made of regenerated non-toxic polypropylene (PP) produced in the Netherlands.

**Planting:** The plants used in the pre-cultivated cassettes in the MobiRoof ECO system are grown at the Dartplant production site under "On the way to PlanetProof" certification. This independent certification proves that the plants for the MobiRoof ECO cassettes have been produced more sustainably and are therefore a better choice for nature, climate and animals.



# UNIQUE FEATURES

Ready-to-use cassette with substrate and sedum plants

Ready for use as roof cover

Lightweight green roof system

Easy to install and replace

Water retention of 20 litres per m<sup>2</sup>  
(optional 30 litre per m<sup>2</sup>)

Sustainably and locally produced

Circular, recycled and fully recyclable

Low maintenance

Can be used on both flat and slightly sloping roofs



# BENEFITS

Collection and buffering of rainwater

Stimulates biodiversity

Insulating and sound-absorbing effect

Extends the life of the roof

Aesthetic value

Increases the value of real estate

Increased efficiency of solar panels

Eligible for subsidies and tax breaks

# INSTALLATION



MobiRoof ECO ensures a direct green result. The MobiRoof ECO system can be applied to flat roofs and those with a slight incline (up to approximately 20%, i.e. 10°). MobiRoof ECO can be installed as is, with no further action required. If you wish to install MobiRoof ECO on a steeper gradient anchoring is required, for example L-shaped profiles. The external measurements of the cassettes are 50 x 50 x 6 cm (=0.25 m²). 4 cassettes therefore fit into 1 m².

## WATER RETENTION

The cassette is filled with substrate which, in addition to the function of growth medium, ensures drainage and storage of water. The water capacity is approximately 20 litres per m². The water buffer capacity can be increased by adding a buffer layer under the cassette. MobiRoof weighs approximately 38 kg per m² when dry and approximately 58 kg per m² when completely saturated with water. As a result, the MobiRoof ECO green roof system is eligible for subsidies and tax advantages. Due to the low weight and dimensions of the cassettes, the system can also be quickly and easily applied to garages, dormer windows, extensions and garden houses.

## POINTS

- If root-proof roofing has not been applied to the roof, then a root-resistant permeable foil should be installed before laying the MobiRoof cassettes.
- Gravel should be applied on the outer edges of the roof and around skylights and discharge pipes in order to promote the microclimate and limit the influence of the wind below the cassettes.



# MAINTENANCE



## IRRIGATION

Irrigation in the North-East European climate zone is usually unnecessary. In extreme cases of drought (more than 4 weeks) irrigation is required.

## MAINTENANCE

Maintenance work is required once or twice a year. The maintenance tasks are as follows:

- General checks
- Fertilization in the spring using sedum fertilizer
- Dead-heading flowers, usually from mid-September. Fine cuttings may remain on the roof, but larger cuttings should be removed.

# REFERENCES AND APPLICATIONS



BUS SHELTER



UTILITY CONSTRUCTION

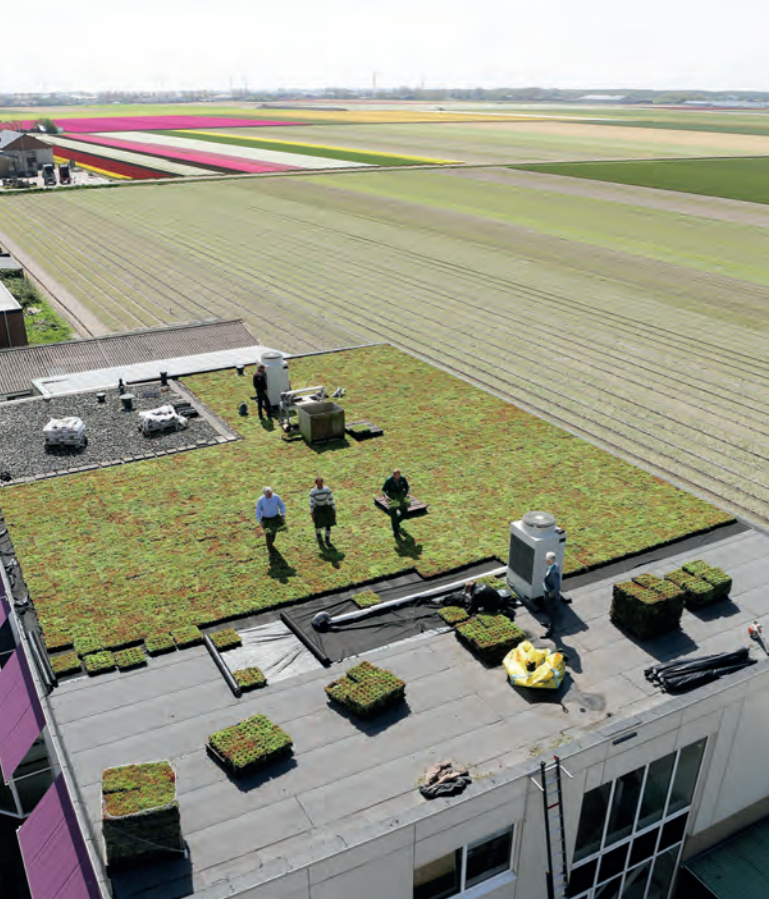


BICYCLE SHELTER



HOUSING





UTILITY CONSTRUCTION



GARDEN SHED



HOUSING



GARDEN SHED



# CASE STUDY



## PROJECT INFORMATION

The big open multi-storey car park Hornschuhpromenade in Fürth is covered with an extensive green roof. The car park has been designed by Max Bögl and has a capacity of 380 cars. The car park has been designed in such a way that it should be easy to build, cost-effective, have an appealing appearance and at the same time easy to maintain. The Max Bögl Group and Isobautec as an executive partner have chosen for MobiRoof ECO to green the 1300 square metres car park roof.

## BENEFITS OF EXTENSIVE GREEN ROOF

"Next to the many product benefits, the decisive argument for choosing the MobiRoof ECO green roof system was that the plants contribute to improving air quality. The CO2 levels are reduced and fine dust is captured, in cities this is essential, said the representative from Max Bögl Group. What is also interesting is that increasingly more cities and municipalities provide grants for installing intensive or extensive green roofs. Green roofs support biodiversity in the city. All kinds of plants and animals can be found on these roofs that are normally not present on ordinary 'bare' roofs with bitumen or roof tiles. Many insects such as bees, hoverflies, beetles, and spiders find a spot in the planted roofs

**ARCHITECT AND COMMISSIONING PARTY :** Max Bögl Group (MBG)

**CONTRACTOR:** Isobautec

**YEAR OF CONSTRUCTION :** 2020

**LOCATION :** Fürth, DE



# BIM

BIM models can be downloaded from the Mobilane website [www.mobilane.com](http://www.mobilane.com) or scan the QR-code immediately.  
BIM can be used for Revit, IFC and Civil 3D by architects, engineers and construction professionals (AEC).

SCAN FOR  
BIM MODEL

