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The warehouse of the company Luetvogt got a Biodiversity Green Roof with vegetation typical of the region.

### Project Data

Area: ca. 10.000 m<sup>2</sup>

Construction Year: 2019

Architect:  
Ostermeyer GbR, Hannover

Contractor Green Roof:  
Garten- und Landschaftsbau Groene,  
Dinklage

System Build-up:  
"Biodiversity Green Roof" (different types)

Coordinates:  
52°32'30.81"N 8°35'0.07"E

### Conception

A lighthouse project in terms of species protection was realised in Wagenfeld on the newly erected warehouse of the company Friedrich Luetvogt GmbH & Co. KG. Thanks to the versatile and typically local vegetation, the 10.000 m<sup>2</sup> „Biodiversity Green Roof“ provides habitat and food for butterflies, wild bees and other insects. Fortunately, the Hochschule Osnabrueck could be involved in the project. They have been testing the implementation of several System Build-ups for "Biodiversity Green Roofs" on a large scale and on the basis of

the results of the research project "Roofs For Biodiversity".

In some demarcated areas the vegetation was established in such an exclusive way as to apply certified regional seeds and raked material from local sandy xeric grassland on the prepared substrate areas. The raked material contained seeds, moss and lichen. In addition, local Sedum cuttings were applied.

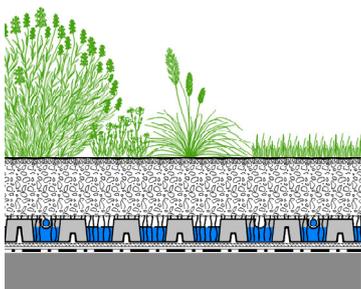
Precisely the species which are typical of the region, provide the suitable food supply for many native animal species.

### Development



One part of the roof was covered with the water distribution, retention and drainage element Aquatec® AT 45 plus dripperlines.

### System Build-up with Aquatec® AT 45



Lawn, Perennials, small Woody Plants

System Substrate "Lawn"

System Substrate "Sedum Carpet"

Wicking Mat DV 40

Aquatec® AT 45 with Dripperline 100-L1

Filter Sheet PV

Roof construction with root resistant waterproofing



For another roof area, the rolled drainage mat Fixodrain® XD 20 with Aquafleece was chosen – here: subsurface irrigation with dripperlines.



In spring, the vegetation period starts and brings out a soft green.



Deadwood and sand pockets are useful habitats and breeding grounds for native animals.



Specifically established water bodies improve the water supply for insects and birds.