



The clubhouse roof of the KETV Karlsruhe is the first Biodiversity Green Roof in Karlsruhe.

Project Data

Area: ca. 235 m²

Construction Year: 2021

Landscape Design and Installation:
Hohenschläger GmbH Garten- und
Landschaftsbau, Muehlacker

System Build-up:
"Biodiversity Green Roof" with
Floradrain® FD 25-E

Coordinates:
49° 0'23.43"N 8°21'52.37"E

Conception

The waterproofing of the clubhouse of the Karlsruhe ice skating and tennis association had been tight for more than 50 years, but then the old gravel roof needed to be renewed. In search of an appropriate renovation solution for the approx. 235 m² area, the decision for a green roof was quickly made because it offered genuine added value beside a great look. Instead of a traditional extensive green roof a Biodiversity Green Roof was chosen to create the greatest possible biodiversity.

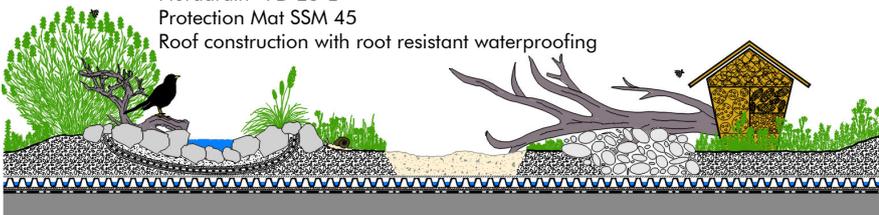
In spring 2021 the installation started on a root resistant waterproofing. The first layer was the Protection Mat SSM 45. Then the drainage and water retention element Floradrain® FD 25-E was laid. It is the core of the ZinCo System Build-up. The drainage layer was covered by the Filter Sheet SF. The planning included several areas with different substrate depths ranging from 100 - 300 mm. The vegetation was installed by planting plug plants and sowing the ZinCo Seed Mixture "Bee Pasture".



The roof design turned out to be an idyll for many plant and animal species.

System Build-up

- Vegetation Layer
- System Substrate
- Filter Sheet SF
- Floradrain® FD 25-E
- Protection Mat SSM 45
- Roof construction with root resistant waterproofing



A green roof is perfect to be combined with a solar system because it creates synergy effects.



The drainage and water storage element Floradrain® FD 25-E was laid fully surfaced. Additional Solar Base Plates SB 200 were placed in the areas under the solar system.



Water bodies are important features for the water supply of birds and insects.



Gravel or stony areas and deadwood are major structural elements of the Biodiversity Green Roof as they provide nesting places and shelter for animals.

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Life on Roofs