# **Project Report**

## Kö-Bogen, Duesseldorf





The courtyards are stylishly decorated with linear patterns and a variety of flower beds in different sizes, depths and geometric shapes.

#### Conception

In the heart of Duesseldorf, the extravagant commercial and office building Kö-Bogen dominates the cityscape. Outstanding is not only the innovative design of the six-storey complex by Daniel Libeskind, but also its LEED platinum award for sustainable construction. The name Kö-Bogen (Kö-Arc) is derived from the shape of a street running along the Hofgarten (Court Garden) towards the Königsallee (Kings

Alley), fondly called the Kö by the citizens. The planning of green areas of the building includes the extensive green roof based on the drainage element Floraset® FS 50 and the intensive green roofs of the two courtyards based on the protection and drainage sheet Fixodrive® FX 50. The pavement at the forecourt, which is also located above an underground garage, is equipped with the extremely stable drainage element Stabilodrain® SD 30.

#### **Project Data**

Area: ca. 7.000 m<sup>2</sup> Construction Year: 2013

Architect/Design:

Studio Daniel Libeskind Architect LLC, New York and Grontmij GmbH, Duesseldorf

Project development:

die developer, Projektentwicklung GmbH,

Duesseldorf

Contractor:

Sieg + Partner GmbH & Co. KG, Wermelskirchen and Balan GmbH. Datteln

System Build-ups with Stabilodrain® SD 30 on inverted roof, with Fixodrive® FX 50 and Floraset® FS 50

Coordinates:

51°13'36.84"N 6°46'49.78"E



In March 2014, the Kö-Bogen was awarded the prestigious MIPIM Award in Cannes in the category "Best Urban Renewal Project".



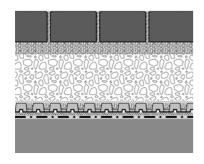
drainage distances.





Pre-cultivated vegetation mats were applied along the edges whereas the centre of the roof surface was planted with Sedum sprouts.

### System Build-up at the Entrance Area



Paving slabs

Bedding layer of stone chippings

Gravel base layer

Filter Sheet PV

Stabilodrain® SD 30, filled with stone chippings

Filter Sheet PV

Roof construction with root resistant waterproofing



Since vehicles such as delivery trucks and fire engines are meant to pass the forecourt, the buildup needed to be planned in a way it supports heavy loads.



Fixodrive® FX 50 is hidden below the dynamically designed pattern.