

GERMANY'S GREENEST OFFICE



## HUMBOLDTHAFENEINS BERLIN, GERMANY

HumboldtHafenEins is situated near the site of the former Berlin wall, forming part of the city's modern architectural history. The project is individual and striking while merging seamlessly with the surrounding area; also providing links to the waterfront promenade beyond. Covering a gross area of 45,000m<sup>2</sup>, the development totals ten storeys, three underground and seven above, and features north and south courtyards on three sides of the building.

BuroHappold Engineering was commissioned to work on the project from the outset, working with the client to choose the site, to assess and to provide assistance on selecting the architectural design submission most appropriate for the project, advising on the energy performance and sustainability elements in each one. We then worked closely with the winning architect to develop a design that was as energy efficient as it was distinctive.

The result is a compelling complex that features a stunning 10 metre suspended, six storey cantilever gallery that overlooks the centre of Berlin. This structural element required careful consideration from our engineers. The resulting solution

incorporates diagonal steel ties combined with a lightweight composite steel construction, providing a safe and efficient structure for the load of the 1,500-ton cantilever.

HumboldtHafenEins incorporates a number of sustainable features, including a cogeneration plant that uses bio-gas, providing power for the whole complex. An intelligent lighting system reacts to the amount of available daylight, while employees are able to control the temperature in their own workspaces. Our sustainability consultants carried out the German Sustainable Building Council (DGNB) certification for the project, reviewing all of the sustainable elements to ensure success. Our work ensured that the building was the first to receive the new DGNB Platinum plaque in 2015 at the yet highest rating for a new office building.

Located close to Berlin's main train station, HumboldtHafenEins provides outstanding, sustainable spaces that are flexible to changing occupants. With a design that merges perfectly with the urban landscape, it leads the way forward in sustainable corporate building design.

**CLIENT**  
OVG Real Estate GmbH

**ARCHITECT**  
KSP Jürgen Engel Architekten

**PROJECT VALUE**  
Confidential

**DURATION**  
2011 – 2015

**SERVICES PROVIDED BY  
BUROHAPPOLD**  
Structural engineering, sustainability  
consulting, DGNB certification