

## OFFICE BUILDING EO Bad Homburg (Germany)

### NEW BUILDING

**Client:** Procom Invest GmbH & Co. KG, Bad Homburg

**Architects:** Meixner Schlüter Wendt GmbH, Frankfurt a.M.  
(Design)

**Our services:**

- Structural design
- Establishing the basis
- Preliminary design
- Developing static design concept
- Schematic design
- Structural fire protection

**Brief description:** Construction of a new office building with offices, conference rooms, meeting rooms and catering areas as well as an underground car park with 159 parking spaces

#### Building

- 6-storey solid construction (reinforced concrete) with 3 underground storeys consisting of 3 interconnected building blocks
- building floor plan 70 m x 60 m
- shallow foundations with flexibly bedded base plate having recesses for highly loaded individual foundations
- bracing via reinforced concrete slabs and walls
- slabs spanning up to 7.50 m
- due to irregular floor plans on the upper floors load transfer on the ground floor by highly loaded wall-like beams and wide spanning joists
- facade partly as post-and-beam construction, partly as non-load-bearing rainscreen construction
- flat roofs greened, partially accessible
- slabs above basement and ground floor with high load-bearing capacity due to earth fill
- spacious reinforced concrete perron connection to the neighbouring buildings

#### Underground car park

- 3-storey underground car park with 5 parking levels and plant room on the ground floor
- far spanning flat slabs with high-performance Europilz column heads absorbing punching loads
- columns designed to withstand vehicle impact
- use of the DBV (German Society for Concrete and Construction) code of practice: "Car parks and underground garages"
- underground floors designed as white tank

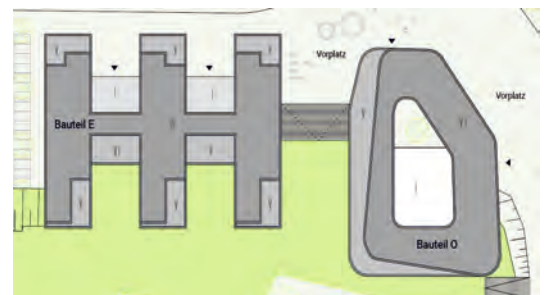
**Completion:** 2022



Computer animation



Ground plan



Site plan: EO with building "E" and the planned building "O"



Pictures / Illustrations: Professor Pfeifer und Partner PartGmbH, Procom Invest GmbH & Co. KG, Meixner Schlüter Wendt GmbH

Professor Pfeifer und Partner PartGmbH Tragwerksplanung Bauphysik Brandschutz Gutachten  
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