CAR PARK Feldberg (Germany)

NEW BUILDING

Client: Certified	Parkhausfond Objekt Feldberg GmbH & Co. KG, Stuttgart E&G Fonds & Asset Management GmbH
Inspection Engineer:	Prof. DiplIng. Matthias Pfeifer
Our services:	Structural engineering inspection in accordance with regulations and standards: Static calculations Execution planning Random monitoring of the structure during the building phase
Brief description:	Construction of Germany's highest situated car park, with 16 parking levels, 1,209 parking spaces and stairwells with interior staff rooms and passenger elevators - 6-storey open garage, length 48 m x width 6 m x height 25 m - supporting structure made of steel columns and steel/concrete composite girders with precast concrete precast elements - staggered floors in split-level construction - ramps and carriageways made of reinforced concrete on steel girders, connected with shear studs - floor slabs as composite girder construction (concrete and steel) - stiffening via steel supports - foundations over strip foundations - extreme weather conditions, high snow load (ground snow load of 8.65 kN/m ²), high wind load (dynamic pressure according to certificate of 1.8 kN/m ²) - wind and earthquake bracing is carried out in the roof via roof bracing and in the individual parking levels via the carriageway slabs - loads are supported by wall bracing with round steel

- loads are supported by wall bracing with round steel diagonal bracing
 roof construction made of underbracing steel structures, support of the high snow loads using steel supports,
 prefabricated reinforced concrete stairwells
- wooden curtain wall with horizontally laid wooden panels attached to the supports

Structural Engineers:

Goldbeck Süd GmbH, Hirschberg Ingenieurbüro D-Plan, Büdingen





Pfeifer INTERPLAN







Pictures / Illustrations: PfeiferConsult