ROBERT BOSCH GmbH FACILITY EXTENSION Karlsruhe (Germany)

NEW BUILDING

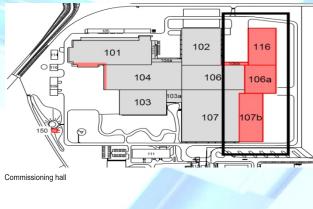
Client:	Robert Bosch GmbH, Stuttgart
Architects:	Robert Bosch GmbH, Stuttgart
Our services:	Full structural design Establishing the basis Preliminary design Final design Approval documentation Execution drawings Preparation of contract award Structural fire protection Earthquake Engineering Advanced load calculation Static calculation and execution planning for piles Structural conditions Checking of workshop drawings
Brief description:	Extension of a logistics facility by three new halls consisting of an automated crate warehouse, a commissioning hall and a high-bay warehouse - 1-storey halls as steel structure with partial connection to the existing buildings - rectangular building floor plan with regular grid
	 large-area halls with lengths of 70 m to 100 m combined pile and raft foundations elastically bedded bottom slabs with thicknesses of 0.5 m 1,300 bored piles with lengths of 9 m stringent requirements regarding
	to the deformation of the building (deformation limits) due to exact fit of the high-rise racks
	 new reinforced concrete fire wall (40 m)
	 flat roof structure (1.5 degree incline) using steel profiles and with trapezoidal sheet covering
	 main girders with spans up to 15 m and secondary beams with spans up
	to 7.5 m - stiffening of building by fire wall and diagonal profile steel stiffening system on the roofs and on the exterior walls
Completion:	2016



Pfeifer INTERPLAN CONSULTANTS







Pictures / Illustrations: Professor Pfeifer and Partner PartGmbB, Robert Bosch GmbH

ProfessorPfeiferandPartner PartGmbB Structural engineering Building physics Fire protection Structural assessment PfeiferINTERPLAN is a registered trade mark