

TRAFFIC ENGINEERING HALL, FACULTY 3 OF THE BTU Cottbus (Germany)

NEW BUILDING

Client:	Planning office of the State of Brandenburg, Cottbus
Architects:	Reiner Becker Architekten BDA, Potsdam
Our services:	Full structural design Establishing the basis Preliminary design Final design Approval documentation Execution drawings Preparation of contract award Structural fire protection Vibration analysis Prestressed concrete design Thermal building physics
Brief description:	<p>New building of an university research and laboratory complex</p> <ul style="list-style-type: none">- 1-2-storey concrete structure to accommodate measuring laboratories and aircraft-engine test benches- main load bearing structure consisting of 4 shear walls arranged as parallel pairs, respectively cantilevered in two directions by up to 7 m (T-shape)- reinforced concrete slabs with spans of 24 m on prestressed concrete beams- high dynamic loading of construction: test benches with high vibratory stresses- vibration decoupling of test benches and labs, measuring laboratories with high precision requirements (in the nanometre range)- prestressed roof trusses built as semi-finished units with supported filigree elements- elastically bedded base plate
Completion:	2009



Pictures / Illustrations: ProfessorPfeiferandPartner PartGmbB, Becker Architekten