

INSTITUTE OF PHYSICS WITH CLEAN ROOM FOR CHEMNITZ UNIVERSITY OF TECHNOLOGY Chemnitz (Germany)

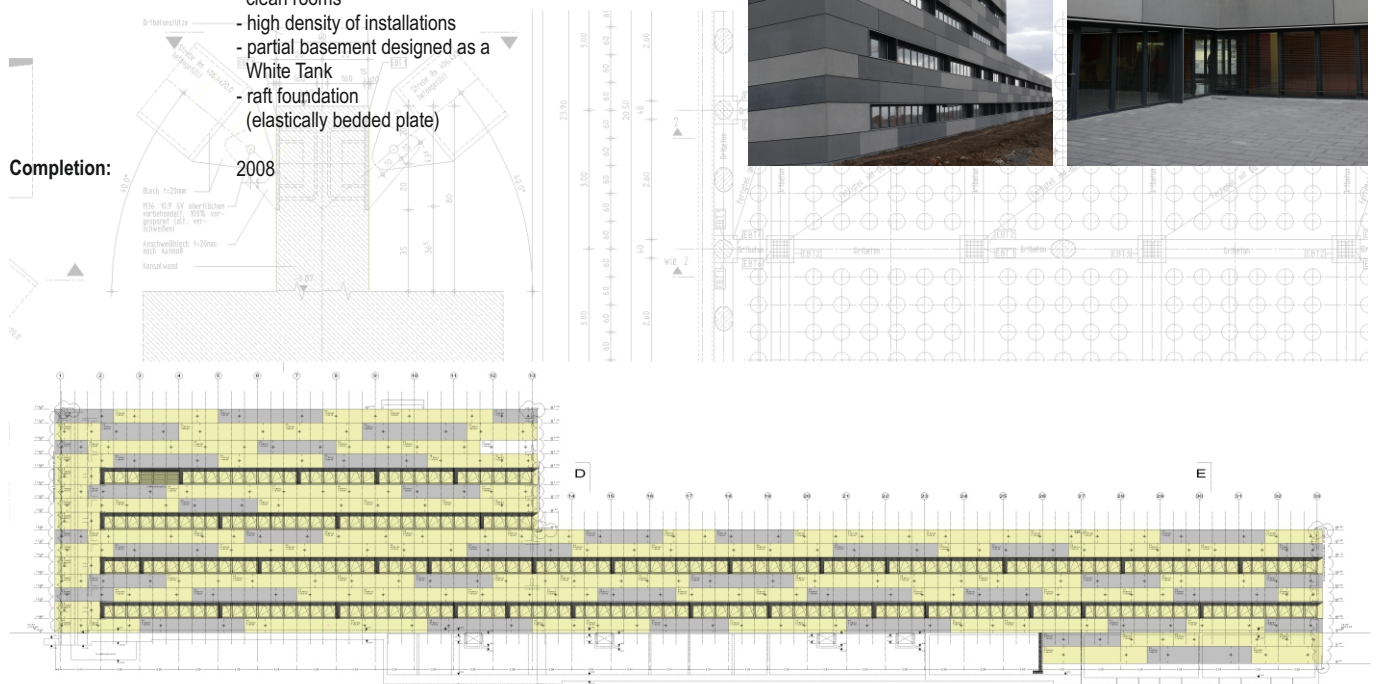
NEW BUILDING

- Client:** Contracting authority
„Sächsisches Immobilien-
und Baumanagement“,
Chemnitz branch office
- Architects:** Rohdecan Architekten GmbH,
Dresden
- Our services:** Full structural design
Establishing the basis
Preliminary design
Final design
Approval documentation
Execution drawings
Preparation of contract award
Construction supervision
Planning of prefabricated element façade
Preliminary design
Final design
Approval documentation
Execution drawings

- Brief description:** New building of a science and
laboratory complex
- 5-storey concrete structure
(106 m x 44 m x 18.75 m)
- clean rooms (with very low
concentration of airborne particles)
for the processing of wafers
(silicon wafers for chip manufacturing)
with very high demands regarding
vibration insulation against external
influences
- reinforced concrete framework with
flat ceilings spanning 7.5 m with
2.5 m slab cantilever
- bracing via service cores as well as
staircases and lift shafts
- most stringent requirements regarding
absence of vibrations due to lab and
clean rooms
- high density of installations
- partial basement designed as a
White Tank
- raft foundation
(elastically bedded plate)

Completion:

2008



Pictures / Illustrations: ProfessorPfeiferandPartner PartGmbH, Rohdecan Architekten, Dresden