



GERMANY

PHAENO SCIENCE CENTER WOLFSBURG



Client City of Wolfsburg, Neuland Wohnungsbaugesellschaft mbH

Financing City of Wolfsburg, Neuland Wohnungsbaugesellschaft mbH

Duration of Services 2002 - 2005

Cost of Implementation 50,7 Mio. Euro

Scope of Services

- Management and co-ordination of project, incl.
- Co-ordination and documentation of planning during construction
- Cost- and time control
- Management of construction and installation schedule
- Preparation and direction of planning and steering meetings
- Assistance in approval applications
- Drafting of final decision documents
- Approvals / acceptance and project documentation
- Schedule control
- Contract management
- Variations management

Brief Project Description

PHAENO will house an extraordinary knowledge event, a fantastic paradise for curious and innovative people. In its dynamic and architecturally unprecedented space sculpture visitors of all ages and from all over have opportunity to discover the unique secrets of nature and technique. At completion time it is Germany's largest playing ground for ambitious innovations a pretension which also reflects in the spectacular and breathtaking design of its London architect, Zaha Hadid.

With its main exhibition hall floating 7 metres above the ground, free access is permitted to the underlying walking and event zone. Here you access ten huge cones, they carry the hall, home shops, restaurants and the entrance. Five of the cones take up to the top of the hall to support its roof. The entire building is swaddled by a diversity of facade elements of pre-constructed concrete, in-situ concrete, glass and metal. The Vierendeel principles for steel structures govern the design of the roofing with its trapezoidal profiled steel sheets as outer cover.

The avant-gardistic architecture requires self-compacting concrete (SCC) for most structural works. Regarding this material Phaeno presently forms Europe's biggest construction site where the demands on fair-faced concrete elements are extraordinary also.

The CES branch firm Wolfsburg Consult GmbH has been entitled to manage and steer the construction of PHAENO.

Key figures

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| • Size of construction area | 17.900 m ² | • Allocated areas | |
| | | Performance centres | 6.000 m ² |
| • Gross story area | | • Allocated area | |
| Without underground car park | 11.295 m ² | Science theatre | 560 m ² |
| • Gross tonnage | | • Estimated | |
| Without underground car park | 81.500 m ³ | visitors | 260.000 per year |
| • External dimensions | 154 x 130 x 97 m | • Exponates | approx. 250 |