

HOCHTIEF Consult Building

Innovative solutions for
turnkey building construction
and industrial projects



HOCHTIEF Consult Building
Design and Engineering Solutions

Your contact partners



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Dear Clients and Business Associates of HOCHTIEF Consult Building

as an engineering services provider, HOCHTIEF Consult has long years of experience in the fields of building construction, civil engineering and infrastructure.

With a staff of 169 based in Frankfurt and Essen, HOCHTIEF Consult Building offers design and planning, engineering and advisory services and project management all from one single source.

Our spectrum ranges from preconstruction planning through to warranty management, covering the entire design, planning and construction process.

We are closely networked with our operative units; our particular strengths are in demand whenever inter-disciplinary expertise is required to ensure practicable, buildable solutions.

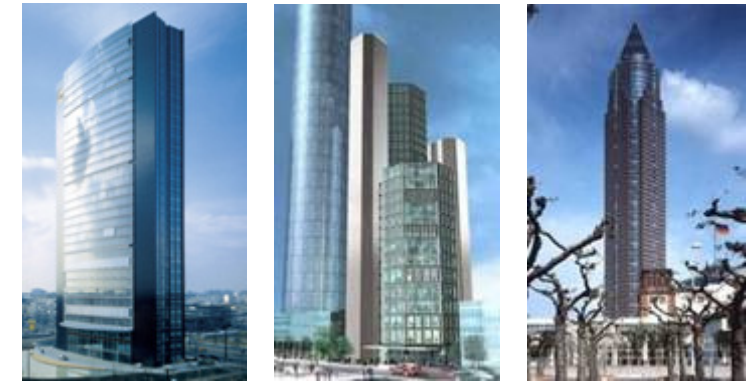
Utilize our know-how for your project. A list of the specialists you can contact is given on the back page. We look forward to cooperating with you.

Yours cordially

Dipl.-Ing. Christoph Breimann
Member of Management Board



In the **Peek & Cloppenburg "World City Store"** in Cologne's Schildergasse, a unique facade system of glass, timber and steel provides maximum transparency. The building's amorphous form makes it a real jewel of downtown Cologne – created by star architect Renzo Piano and HOCHTIEF. For the architects at HT Consult, the challenge was to transform this sophisticated design into buildable solutions that are right in every detail.



GAP 15, Düsseldorf | **Constantinhöfe, Cologne**
ARAG, Düsseldorf | **Garden Towers, Frankfurt** | **Messe Turm, Frankfurt**
Stadion, Mönchengladbach | **Office Port, Bonn**
Commerzbank, Frankfurt | **Post Tower, Bonn** | **DLZ Stern, Essen**

Architectural design

Experienced architects with a sure eye for detail implement your ideas.

- Consulting
- Design Review
- Planning work phases 1-9
- 3D – quantity take-off
- Alternative proposals
- Heritage protection
- Appraisal and evaluation
- HOAI and construction law
- 3D/4D planning and visualization
- Support during bidding process
- Preparation of bill of quantities

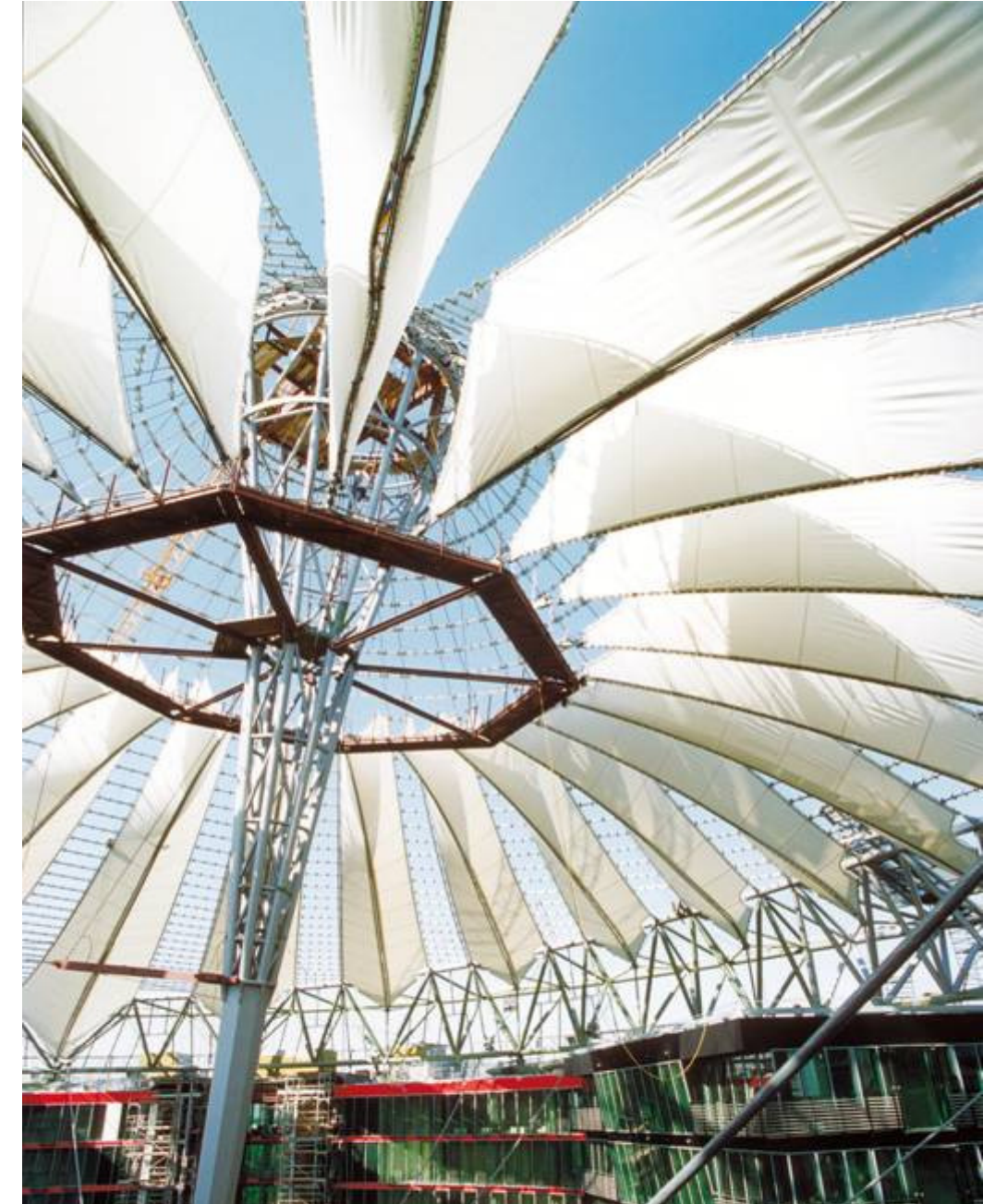
References

- High rise buildings
- Office Buildings
- Stadia
- Administration Centers
- Exhibition halls



CC-Bank Mönchengladbach

The Northrhine-Westphalia branch of HOCHTIEF was contracted to erect the new administrative headquarters of CC-Bank (Santander Consumer Bank), complete with parking pallet, on an abandoned industrial site close to the center of the city of Mönchengladbach. The key demands, in addition to noise protection and thermal insulation, were on strict noise emission protection and the creation of a high-grade sojourn quality and sense of comfort. Despite the presence of sound-reflecting materials (glass, steel, natural stone), use of the appropriate measures made it possible to achieve pleasant acoustics in the entrance hall.



Sony Center

It is the symbol of the new Berlin: the Sony Center on Potsdamer Platz. Even before the official commencement of construction in 1997, it was already being heralded as the "glazed city of tomorrow". The prestigious building was designed by German-American star architect Helmut Jahn from Chicago. Particularly in the case of the spectacular "umbrella" roof structure which stretches over the inner courtyard, the competence of our structural engineers was needed.

Building physics

Thermal insulation, noise protection, protection against vibrations – and plenty more.

- Thermal construction physics
- Noise protection
- Room acoustics
- Sound systems
- Immision protection
- Protection against vibration

Structural design

Structural design engineers realize innovative and practicable load-bearing systems

- Consulting
- Design Management
- Design Review
- Planning for all construction phases
- Refurbishment and upgrading
- Optimization of load-bearing structures and building materials utilization
- 3D-Statics, 3D-Construction
- Building dynamics
- Technical fire protection
- Specialized construction management
- Slope of pit



Rheinhallen / Rheinpark

Across the Rhine from the famous riverside silhouette of the cathedral city of Cologne lies the district of Deutz. There, the exposed facade of the old trade fair hall rises above the neighboring greenery like an outsized, expressionist brick fence – a blend of sculpture and film set.

This is a project that makes great demands on HOCHTIEF and its know-how: the task is to create a modern office and media center behind heritage-protected walls dating back to 1928 and to shape a new headquarters for broadcaster RTL.



Elbphilharmonie Hamburg

Hamburg is to get a strikingly impressive new concert hall: the Elbphilharmonie. The facade is a real architectural highlight, a shimmering structure of glass, with a surface composed of a total of 1,100 individual glass elements. The single-shell glass facade reflects the three forms of utilization inside. In the hotel, the ventilation wings are transformed into wave-shaped hatchways, while the balconies of the apartments, designed as horseshoe cut-outs in the curves of glass not only offer an impressive view, but also provide wind-protection and lateral ventilation for the rooms behind.

M&E design

Our specialized engineers prepare the solutions for your utilization requirements.

- Design Review
- Design Management
- Planning work phases 1-9
- Alternative proposals
- Bid preparation
- Preparation of bill of quantities
- Evaluation of existing building systems
- Energy efficiency
- Supply technology
- Electrical engineering
- Technical fire protection
- Specialized construction management

Facade engineering

The facade is a building's calling card

- Consulting
- Design review
- Bid preparation
- Preparation of bill of quantities
- Alternative proposals
- Quality assurance
- Appraisal and evaluation
- HOAI and construction law
- Support during bidding process