Projectdocumentation No. 28
System 2000 I 7000

Dürr Campus
Bietigheim-Bissingen

Strähle
Raum-Systeme

The new Dürr Campus

Transparent and communicative

Information on the project

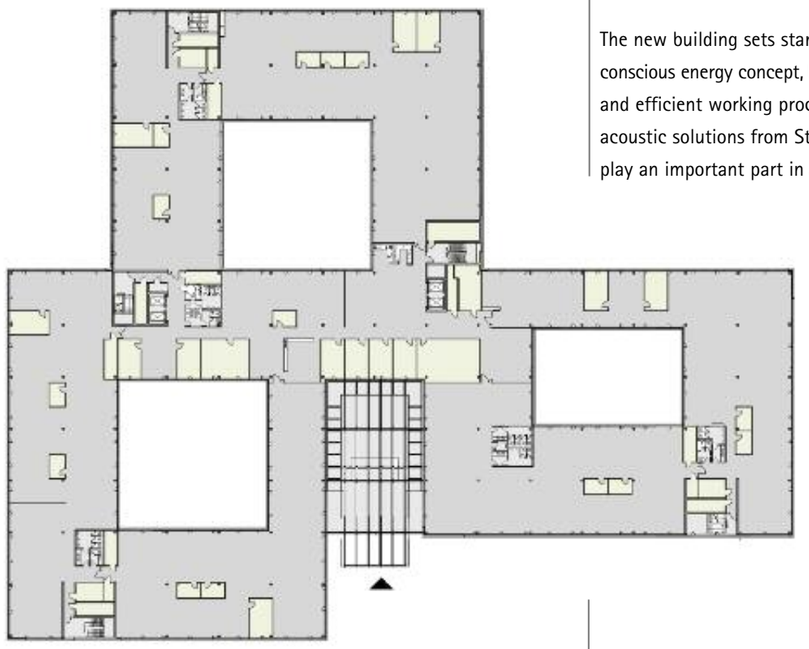
- Dürr AG, Bietigheim-Bissingen
- Architect: AIG Planungs- und Ingenieurgesellschaft mbH, in a joint planning venture with Schreiner Architekten and Werkteam Freie Architekten, Stuttgart
- General contractor: Züblin AG, Stuttgart
- Project control: CPM GmbH, Sindelfingen
- Room acoustics: Ingenieurbüro für Bauphysik Horstmann + Berger, Altensteig
- Gross storey surface area: 34000 sq.m.
- Workplaces: 1200 employees
- Partition wall: System 2000
- Acoustics: System 7000

In the course of relocating its head office from Stuttgart to Bietigheim-Bissingen, the Dürr Group expanded the existing location into a campus with a new administrative building for 1200 employees. This is where Dürr is now concentrating its activities in the fields of industrial painting machines and environmental technologies.

The new building comprises three interlocking pavilions with an inner courtyard connected by a central atrium. This is a meeting place for clients and employees from the offices and from production.

The first impressions gained when entering the building are central to the concepts behind the Campus: openness, transparency, clarity and proximity.

The new building sets standards not only in its resource-conscious energy concept, but also in rapid communication and efficient working processes. Partition wall systems and acoustic solutions from Strähle customized to every space play an important part in all of this.



Ground plan of Dürr Campus

Room layout and acoustics from a single source

Communication-enhancing and flexible: these were the requirements Dürr had formulated for the office layout. The result was a modern and variable workplace concept, divided up into single-person and group offices, open-space offices and conference rooms.

The predominantly open-plan layout resulted in very high demands being placed on acoustic optimization of the rooms, in particular on the reduction of reverberation times.

The requirement was for a formally understated implementation matching the modern, transparent and open office layout.

These ideas were implemented fully and consistently using the partition wall system 2000 and the various absorber elements from the System 7000 family.

On the basis of building-physics computations, a concept was devised in advance for the positioning and for the extent of the acoustically effective surfaces. The overall solution created by the project team consists of partition wall systems with flush-integrated absorbers, free-standing metal absorber elements and ceiling absorbers.

Ground plan of office

Partition wall system 2000
Versatile and flexible

The partition wall system 2000 based on profiled steel mullions once again proves its great flexibility and versatility in the Dürr Campus.

Fully glazed balustrade and toplight elements as well as solid panel elements were constructed. The door side sections of the partition walls are equipped with integrated and sound-insulated over-flow elements allowing the air to escape from the offices via the hallway areas. Depending on the differing sound insulation requirements, the walls were constructed with single glazing or double glazing. Thanks to the ample glazed surfaces, the rooms in the entire building create a bright and open impression.

The partition wall system 2000 is a holistic extension solution presented in a standardized and also flexible form to allow future conversions.

Technical information for System 2000

- Sound insulation: up to 45 dB Rwp
- Modular width: 1800 mm
- Room heights: 3080 mm to 4420 mm
- Ventilation: sound-insulating over-flow elements integrated into the door side part

Integrated blinds with manual turning mechanism ensure the necessary privacy when required

Dürr Campus I System 2000 / 7000

System 7000
Flush-integrated partition wall absorbers

The partition walls play a central part in optimization of the room acoustics, with regard to sound insulation between the rooms, as well as to sound absorption within the room.

The absorber elements are here integrated flush into the partition wall, so that the room aesthetics are in no way impaired.

In the conference rooms, the absorber elements are arranged on both sides of the wall to prevent flutter echoes and to optimally match the reverberation times inside the conference rooms to their use.

Absorber as wall liner

Large-area absorbers can be arranged as wall liners in front of the acoustically challenging concrete walls and lightweight plasterboard panels for a further reduction to the reverberation times in the open-space areas.

Interacting with the suspended ceiling absorbers, they result in optimum acoustic conditions for the hallway and open-plan areas.

Free-standing absorbers

To match the open structures in the open-plan offices, more than 330 free-standing absorber elements were positioned to ensure a pleasant acoustic environment.

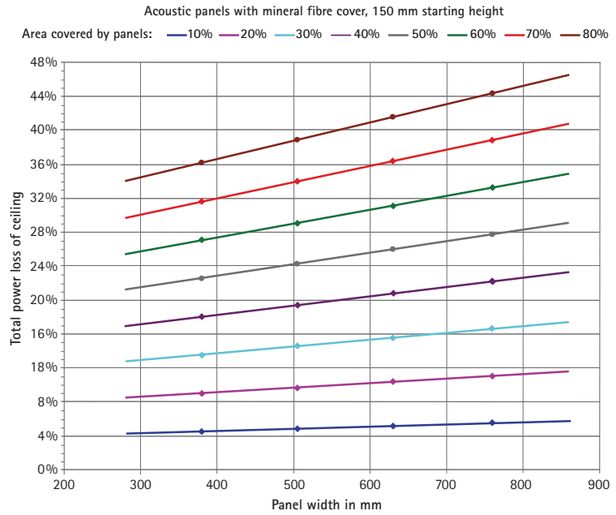
The use of extremely effective absorption materials means that these elements are only 100 mm thick and merge discretely into the office surroundings.

In addition, the surfaces of the absorbers can be used together with magnets as presentation and work surfaces.

Dürr Campus I System 2000 / 7000

Ceiling absorbers

Power losses from a cooling ceiling due to suspended acoustic panels with a cooling power in the initial state of 35 W/m²



Ceiling absorbers have an important function in the overall acoustic concept.

With an effective surface of more than 6000 m², they prevent sound reflection off the ceiling, in the open-plan zones as well as in the conference rooms and multi-person offices, and they effectively absorb disturbing ambient noise.

The ceiling of the building is designed as a core-activated cooling ceiling. The structure and the suspended arrangement of the ceiling absorbers ensure however that the concrete core activation is only minimally affected.

In addition, technical functions such as lights, movement sensors, escape route markings and sprinkler systems are integrated into the ceiling absorbers.

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