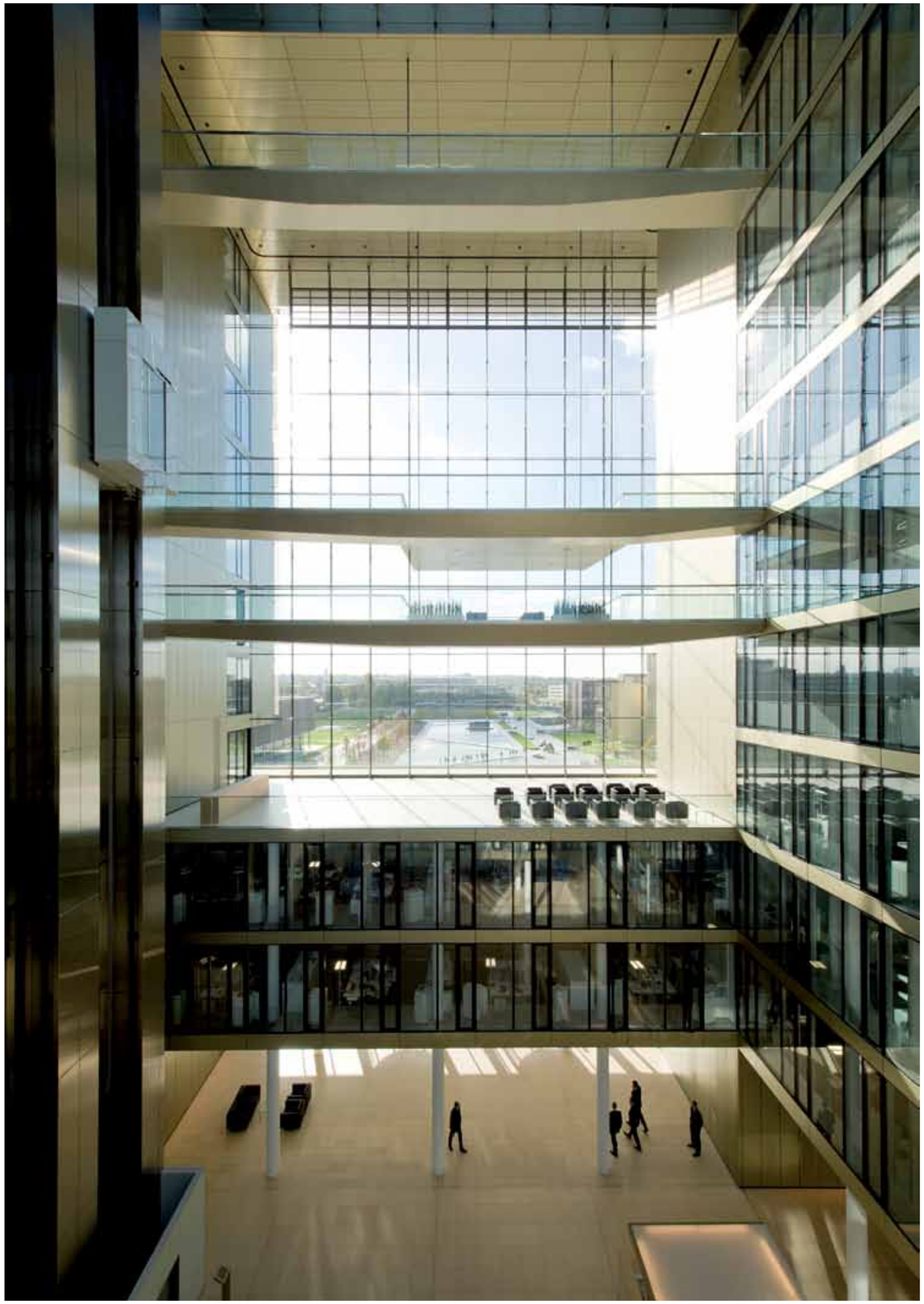
ThyssenKrupp,
Essen

System
2000
2300
7000
Orga

Projectdocumentation No. 30

Strähle
Raum-Systeme



ThyssenKrupp AG, Essen
Architecture:
Chaix & Morel et Associés, Paris
JSWD Architekten, Cologne

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Volume: 7000 rm partition walls and 950 aluminium-frame doors AR 64

Planning grid: 1350 mm

Sound insulation corridor walls: 47 dB Rwp

Sound insulation office crosswalls: 50 dB Rwp

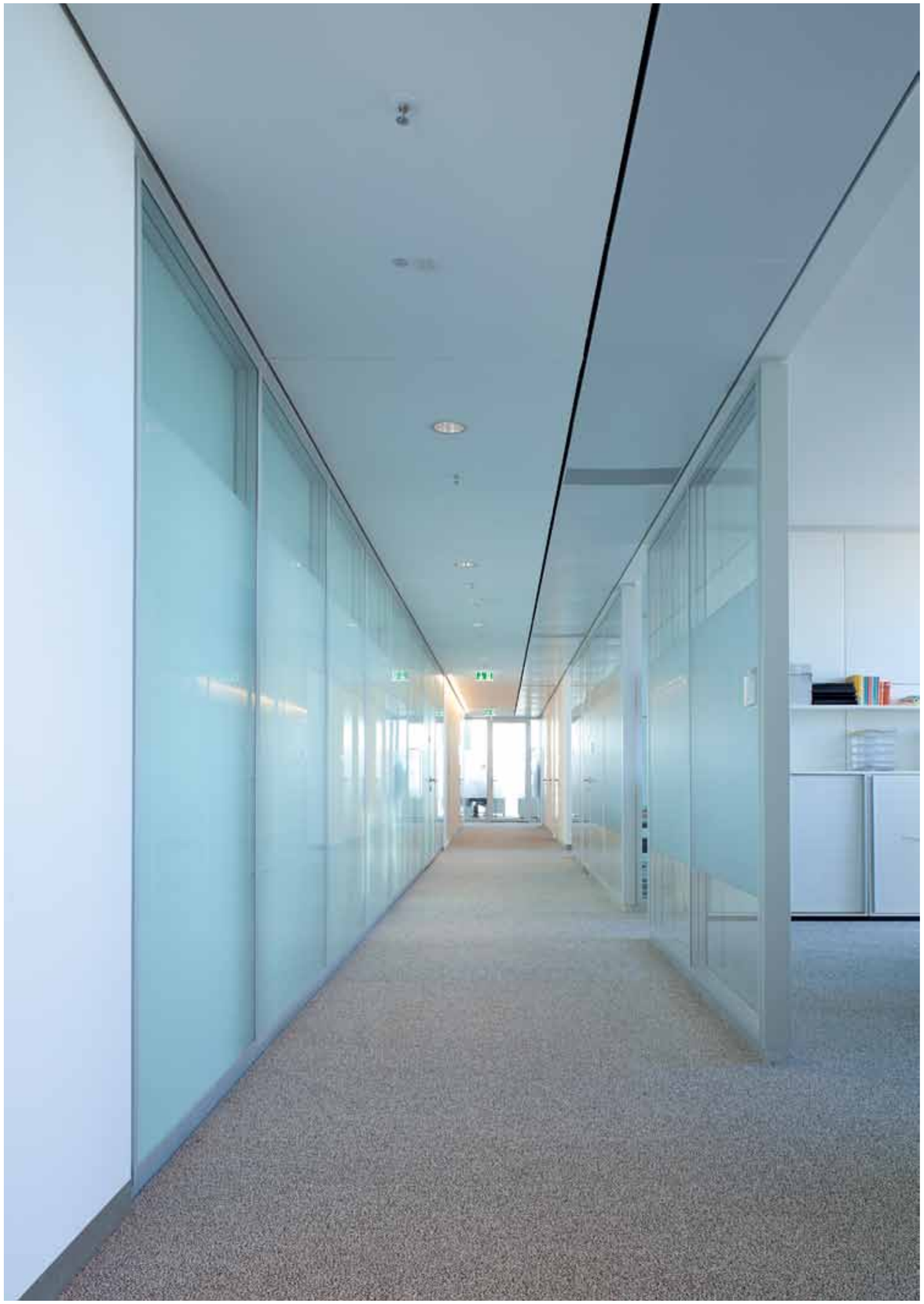
Fire protection: in subareas F30 Glass walls in combination with T30 glass doors

Fascinating connections

L-shaped, intersecting structures surround the foyer of the company headquarters Q1. The building is an eye-catcher in the newly created ThyssenKrupp AG urban Quarter in Essen. At 50 metres, Q1 rises above the rest of the complex of 12 individual buildings at the end of a prevailing axis with a central pond. Short distances and small squares between the buildings are the key to the compact and homogeneous architecture. Elaborate façades and the continuous storey-high glazing of each floor underline the image of openness and transparency. All buildings in the Quarter consist of L-shaped structures that share a common centre.

Pioneering technologies in an architectural context indicate the company's resolve to help maintain a social, ecological and economic balance. For example, the buildings in the complex use geothermal energy from warmth and cold stored in the ground. Around 700 newly planted trees decorate the complex, two thirds of which have been left natural.

The campus has been awarded gold-category certification from the DGNB, the German Sustainable Building Council, for its exceptional sustainability, the minimisation of consumption with regard to both energy and resources, the minimal strain placed on the ecosystem as well as the creation of modern work worlds.



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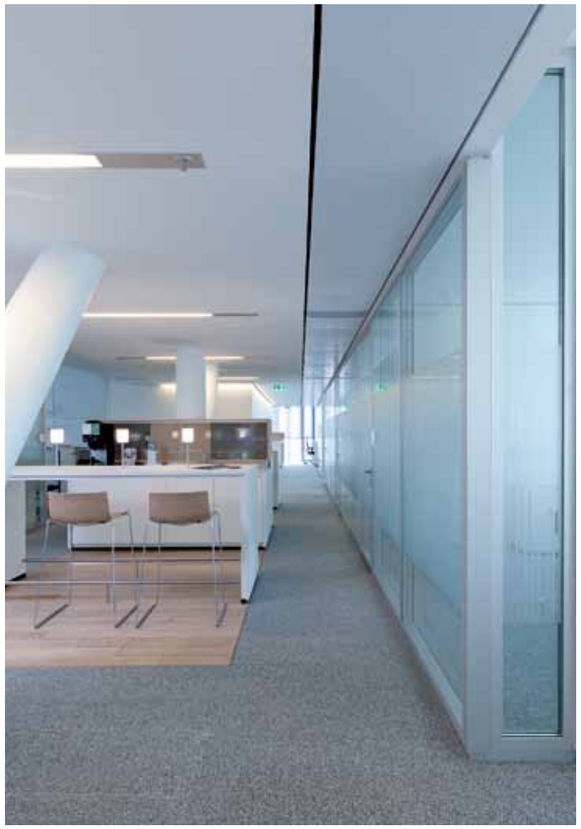
Quiet spaces

Q1, the headquarters, accommodates workplaces for around 500 employees. These are all positioned around the glass-covered atrium on the ten floors of offices. Having sensitively tuned room acoustics in changing room scenarios is one of the greatest challenges you can have in transparent glass architecture. Acoustic panels were integrated into the partition walls. They were chosen so that their effect would correspond to the size and use of the rooms.

An additional priority was the fact that the walls had to be easy to reposition to be able to react flexibly to organisational changes. After a number of extensive tests, Strähle emerged as the winner with its extensive 2000 partition system and the 7000 absorber system based on it. From a total of 7000 running metres, about half were used for floor-to-ceiling all-glass elements in the corridors. The remaining 3500 metres were used as internal office partitions designed as solid walls with flush-mounted absorber elements that combine effective absorption with a high level of sound proofing. Their microperforated steel plate surfaces correspond optically with the stainless steel elements of the façades. Organisational elements and lighting are integrated into the system grooves of the office partition walls.



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Specially developed lights with an adapter for the system grooves were integrated into the walls at several places. The power supply is concealed in the system wall. Operating switches are also part of the system.

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Floor-to-ceiling all-glass elements in the corridors and the solid walls with integrated acoustic elements between the offices contribute to balanced room acoustics. The system also allows flexible adaptation to any possible future requirements in terms of room structure. Shelving and pinboards can be integrated into the office walls as required.

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The company receives international project teams and guests to exchange ideas in the Q2 Forum. The flush partition walls mounted on anodised profiles harmonise with the structure of the façade and create prestigious grandeur.

A sure thing

Q2, the Forum, promotes communication and project work. This is where international teams develop pioneering innovations.
The company receives guests in a range of function rooms that can accommodate up to 1000 persons. The staff and guest restaurants over one and two storeys are without doubt the social highlight of the room scenarios.
F30 glass walls and T30 glass doors were used wherever fire safety regulations necessitated them.

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The glass areas of the 2300 system in the guest restaurant are seamlessly joined; they reflect the lightness of the exterior and thus visually extend the room size. Flush-integrated doors and anodised profiles provide the finishing touches to the harmonious, top-quality overall picture.

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