

# TECHNOLOGY AND MEDIA CENTRE - NEW OFFICE, LABORATORY AND CONFERENCE BUILDING, ERFURT, GERMANY, 1997-2007



Extensive analysis of the framework conditions, considerations of use, area and cost optimization as well as the findings of these require-building task played in the development of new technology and media center in Erfurt the decisive role. From the high standards and reputation to innovation and start-wrought, there was the requirement to develop a technically and creatively innovative and sustainable building, to provide optimal conditions to future local companies. To ensure maximum adaptation in changing user requirements, for the development of the units an arcade principle is used. An essential feature of this advanced layout solution is the ability to use individual units grow and shrink even without losing the functional cohesion. Optimizing the use of floor plan aspects enabled the absolute usable space compared to normal office buildings to increase by about 25%.

The significant and very innovative membrane facade along the development of space is reflected

in the chosen architecture and form again the physical building simulations. The great potential of the membrane facades opposite usual facade materials in material properties such as translucency, transparency, lightness, design possibilities and in the economy. Simulations in advance made it possible to optimize the function of the open connection and communication range associated with the facade, and the thermal requirements of the use of units. The calculations were considered for the access corridor by a natural ventilation. Supply air flows to the lower ceiling panel, flushed the three-storey air space and occurs in the roof again. 33 geothermal probes were placed about 99.0 m deep into the ground and the extracted geothermal heat is subtracted by a heat exchanger from where it is transported via the medium water in the ceiling tiles of the building (core activation of masses). An underground rainwater tank is used to collect water and thus the saving drinking water.

Client  
TMZ GmbH

Planning and Construction Process  
1997 – 2007

GFA  
12.000 m<sup>2</sup>

Adress  
Konrad-Zuse-Strasse 5  
99099 Erfurt

Prizes  
Invited Competition, 1996  
1st Prize

Publications  
Intelligente Architektur 01-02/2001  
11-12/2002 u.a.

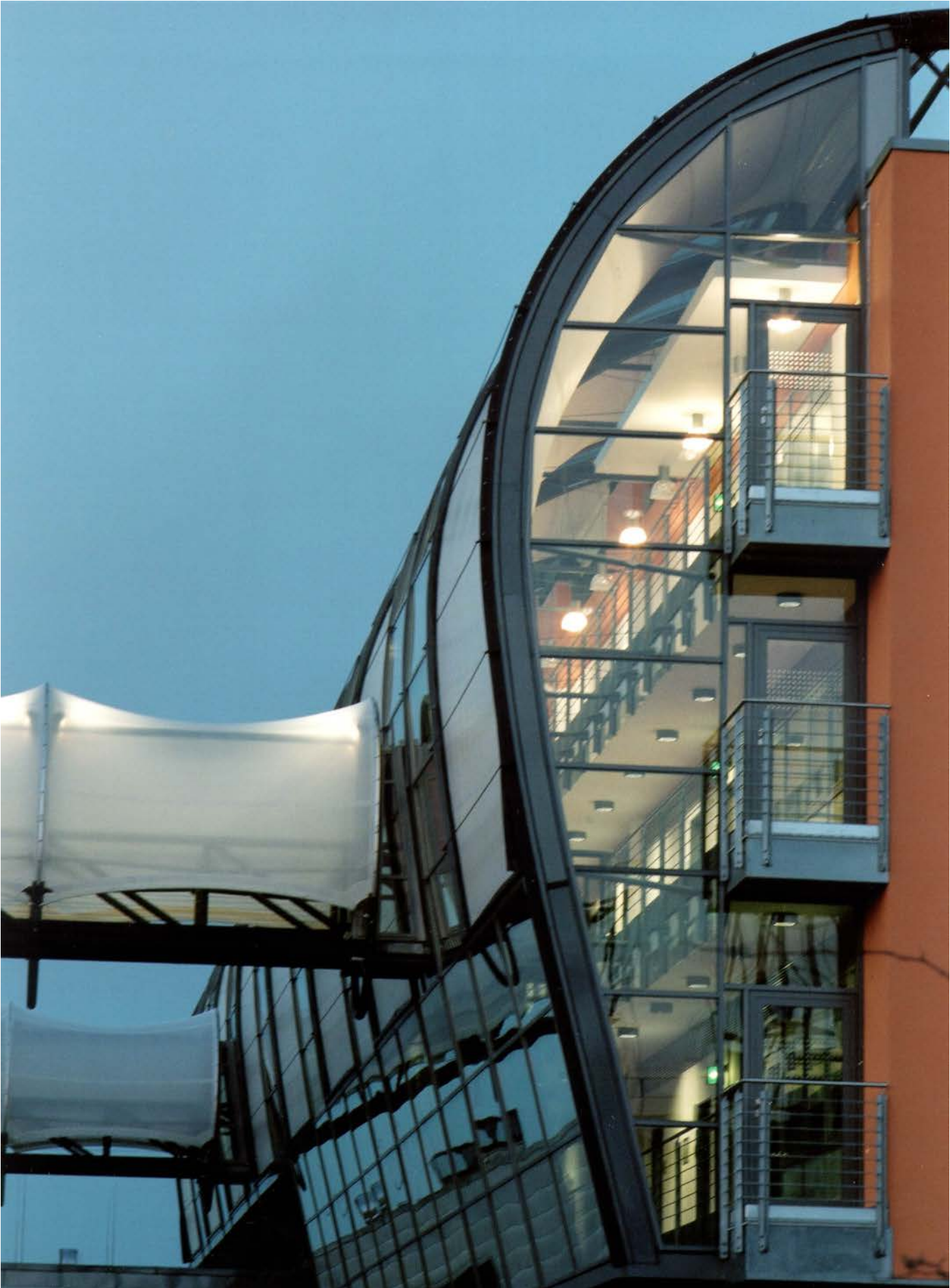
**P O H L   A R C H I T E K T E N**



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