

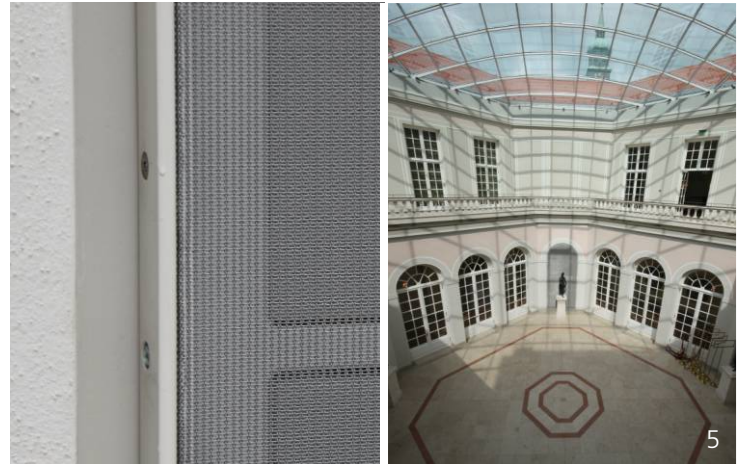


CUVILLIÉS THEATER, MUNICH, GERMANY

PROJECT SUMMARY. The Cuvilliés Theater, originally built in 1753 in the so-called "Apothekerstock" (pharmacy floor) of Munich's Residenz, is considered Germany's most important Rococo theater. In the course of extensive refurbishment works, a glass roof was installed above the courtyard so that since it has been used both as an additional foyer area and a performance venue.

FOCUS OF CONSULTING SERVICES. Comprehensive status evaluation measurements in terms of room acoustics and building acoustics formed the basis for the acoustical refurbishment and reconstruction works realized. Since more space was needed, the orchestra pit was extended as part of the refurbishment works. The new seating and the virtually inaudible ventilation system provide a high level of comfort. Moreover, the theater, which is under a building preservation order, was equipped with a new sound reinforcement system as well as with new stage technology. Right next to the theater building, a new rehearsal stage was installed.

The historic "Comité Courtyard" with its new roof was turned into an indoor venue and optimized both with regard to summer thermal insulation as well as to room acoustics. Sound absorbers in the lateral walls ensure the required attenuation and fixtures in the roof construction make it possible to suspend reflector elements and thus to adjust the room acoustics to concert performances. The combination of air conditioning and natural ventilation provide for a comfortable interior climate.



CLIENT

State Building Office Munich I

ARCHITECT

Atelier Achatz Architekten, Munich
Ingenieurbüro für Bauwesen Mertig & Prüschenk, Munich

PROJECT DATA

Planning and construction period	2005 - 2008
Gross floor area / gross volume	11,000 m ² / 42,000 m ³
Cost of construction	24.5 million euros

SERVICES RENDERED

Room acoustics, electroacoustics, building acoustics, thermal building physics, building climatology, noise control, protection against external noise
Overall consulting during all work phases, status evaluation measurements, room acoustical computer simulations, building climatology simulations, final acceptance testing, accompaniment of initial operation period

1 Box
2 View to the stage, fire curtain
3 Auditorium and royal box
4 "Comité Courtyard", gallery
5 "Comité Courtyard" and detail of sound-absorbing element
Pictures: Müller-BBM