



MUNICIPAL THEATER, KEMPTEN, GERMANY

PROJECT SUMMARY. The planning process for refurbishing Kempten's municipal theater started in 2002. In addition to a number of necessary technical renovation measures, an enhanced fire protection in accordance with the latest regulations, and the building of a new foyer extension, the acoustics in the listed auditorium required an upgrade. In particular, the acoustical conditions for classical music had to be improved significantly.

FOCUS OF CONSULTING SERVICES. Before the refurbishment, the reverberation time in the auditorium was quite favorable for drama performances. However, classical music requires a longer reverberation time so that a perceptible increase in reverberation was a major goal for improving the auditorium in terms of room acoustics. Therefore, in the course of the auditorium refurbishment, acoustically unfavorable absorption surfaces like the textile wall coverings and carpets were removed and replaced by sound-reflecting materials such as gypsum board and a wood flooring.

The installation of an electro-acoustic room enhancement system in the auditorium was one of the decisive measures for improving the acoustics without having to implement other complex structural measures or any major changes in the auditorium design. The possibility of adjusting the acoustics to speech or music is ideal for a multi-purpose usage and definitely increases the theater's acoustical variability.



CLIENT

City of Kempten

ARCHITECT

Molitor Architekturbüro, Kempten

PROJECT DATA

Planning and construction period 2002 - 2007
 Cost of construction 8.2 million euros

SERVICES RENDERED

Room acoustics, building acoustics, electro-acoustic room enhancement system
 Overall consulting, planning, simulations, final acceptance testing, support during initial operation period

1 Balconies
 2 View to the stage
 3 Foyer
 4 View into the auditorium
 Pictures: Noack