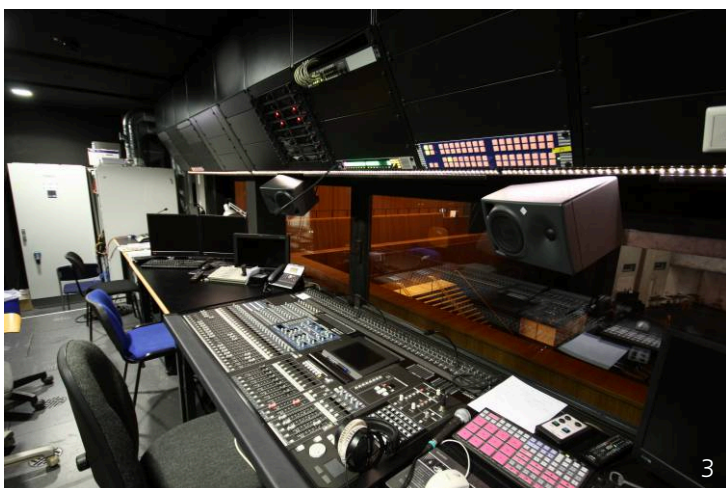


THEATER AND ORCHESTRA HEIDELBERG, GERMANY

PROJECT SUMMARY. After more than four years of refurbishment and extension works, the Heidelberg Theater was festively opened on November 24, 2012. The main aspects of this project were the new buildings of the drama and opera auditorium, the large orchestra and choir rehearsal room including rooms for tuning instruments, three rehearsal stages, workshops as well as the refurbishment of the Old Hall and the administration areas.

FOCUS OF CONSULTING SERVICES. The aim of integrating a new theater into Heidelberg's urban planning and old town led to a rectangular arrangement of the stages of the New and Old Halls and thus to lateral access doors in the New Hall. This asymmetrical design of the new auditorium paved the way for a great variety of theater programs; however, at the same time it also posed special challenges for the acoustical planning. By means of room acoustical computer simulations and scale-model measurements, all acoustical measures were optimized. As a result, the acoustics can be adjusted to the respective kind of usage, i.e. ranging from opera to drama. The high-performance sound reinforcement system designed by Müller-BBM as well as the planned audio-visual media infrastructure meet the high standards of today's modern and flexible theater programs, granting a lot of artistic freedom and securing the theater's future lastingly also in terms of technology.



CLIENT

Theater- und Orchesterstiftung Heidelberg
(Theater and Orchestra Foundation, Heidelberg)

ARCHITECT

Waechter + Waechter Architekten BDA, Darmstadt

PROJECT DATA

Planning and construction period	2008 - 2012
Gross floor area / gross volume	15,400°m ² / 74,000°m ³
Cost of construction	60 million euros

SERVICES RENDERED

Room acoustics, electroacoustics, audio-visual media technology, building acoustics, thermal building physics, sound insulation, protection against external noise
Planning, consulting, simulations, scale-model measurements, measurements in reverberation chamber, site supervision, final room acoustics and building acoustics acceptance testing

1 View from Theaterstrasse

2 Rehearsal room

3 Control room - New Hall

4 New Hall

Pictures: 1, 4 Waechter + Waechter, 2-3 Müller-BBM