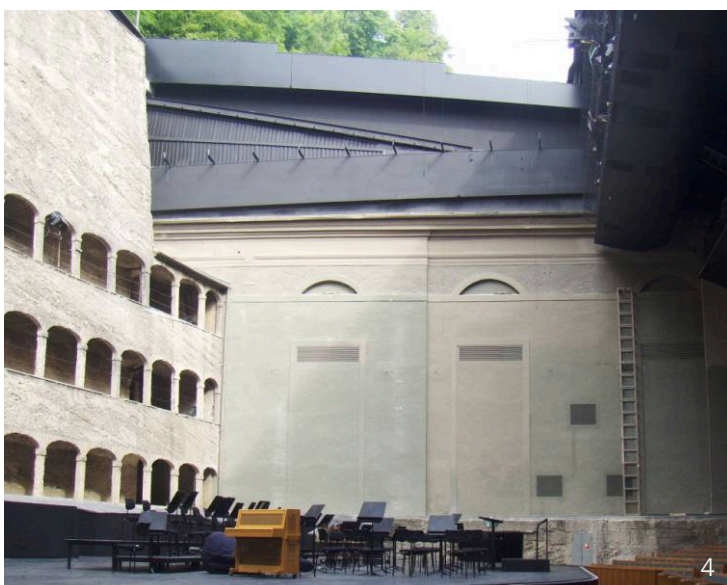
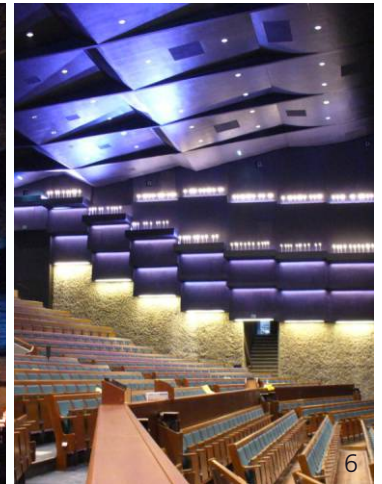




FELSENREITSCHULE, SALZBURG, AUSTRIA

PROJECT. The Felsenreitschule with its stage rear wall carved out of a rock and its retractable stage roof is an absolutely unique venue among the major opera houses of international renown. From October 2010 to May 2011, the then existing roof was replaced by a solid structure with telescopic beams bearing mobile roof elements that could also remain closed in winter. During the same period, all auditorium wall and ceiling surfaces were redesigned.

ACOUSTICS. The volume which is unusually large for an opera house as well as the hall's international renown presented quite a challenge in terms of acoustics. Extensive status evaluation measurements, a wealth of experience in acoustics plus state-of-the-art simulation techniques made it possible to complete this task successfully. In addition, the acoustics was further improved by means of both the precisely calculated reflections originating from the redesigned and re-structured wall and ceiling panelling and the sound-absorbing surfaces installed for the purpose of directing the sound field. Moreover, now there is the possibility of fine-tuning the sound perfectly to the respective audience and orchestra size or type of performance by means of a high-class electro-acoustic room enhancement system.



CLIENT

Salzburg Festival

ARCHITECT

architekturbüro HALLE 1, Salzburg, Austria

PROJECT DATA

Planning and construction period
GFA / gross volume

2008 - 2011
1,430 m² / 22,000 m³

SERVICES RENDERED

Room acoustics, electro-acoustics, electronic room acoustics
Design, simulations, status evaluation and final acceptance testing,
assistance during events

1 Orchestra on stage
2 View towards stage
3 Auditorium
4 Stage with roof retracted
5 Performance with orchestra in pit
6 Wall and ceiling panelling
Pictures: Müller-BBM