



MARGRAVIAL OPERA HOUSE, BAYREUTH, GERMANY

PROJECT. Designed as of 1744 by architect Giuseppe Galli Bibiena in Italian Baroque and inaugurated by Margravine Wilhelmine in 1748, the Margravian Opera House is one of the most important and best preserved Baroque theaters in the world. Shortly after it was listed as a UNESCO World Heritage Site in June 2012, it was closed for extensive restoration works in order to preserve the almost complete original materials. After six years of work, the restorers were able to present the auditorium with its rich décor and the painted surfaces – mainly made of wood and canvas – in their original 18th century splendor.

ACOUSTICS. At the start of the restoration works, MÜLLER-BBM identified very good room acoustic conditions: a very large volume for a traditional tiered theater, very few curtains and ideally structured wooden surfaces. Therefore, the acoustic experts focused on the newly designed orchestra pit, the auditorium seating, and on integrating state-of-the-art equipment. Due to the strict heritage requirements, the installation of a new wooden floor in the audience area – which can be excited to vibrate and which also accommodates the air ducting and air conditioning systems – was quite a challenge both for the ventilation planners and the acousticians.

Before the reopening, first musical rehearsals already proved the excellent acoustics in the renovated theater. In addition to being a museum offering guided tours, the Margravian Opera House now is – also thanks to the new stage machinery – a perfect venue with the best possible acoustics for opera and concert performances as well as for the recently established “Bayreuth Baroque Opera Festival”.



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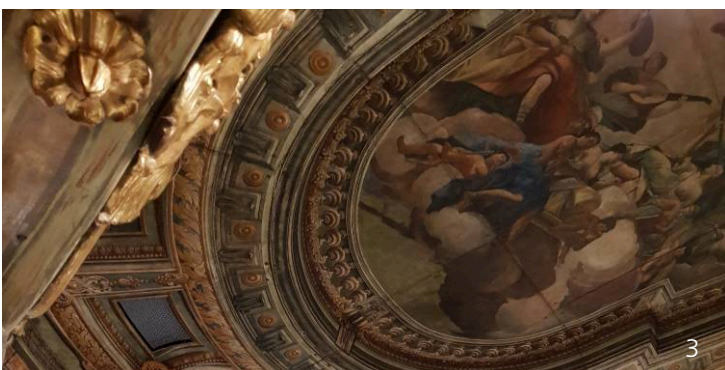
Bavarian Administration of State-owned Palaces, Gardens and Lakes, Munich

PROJECT DATA

Planning and construction period	2012 - 2018
Seating capacity	approx. 500
Cost of construction	approx. 30.0 million euros

SERVICES RENDERED

Room acoustics, building acoustics
Consulting during all work phases, room acoustic measurements



- 1 Exterior view
- 2 Seats in the boxes
- 3 View of the ceiling
- 4 Auditorium with view of the stage

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