



## SCHAUSPIELHAUS, STAATSTHEATER STUTTGART, GERMANY

**PROJECT.** The main venues of Staatstheater Stuttgart were erected between 1909 and 1912 by Max Littmann as a building complex consisting of the "large house" (today known as the Opera House) and the "small house" (today called Schauspielhaus). As the "small house" was completely destroyed in World War II, it was replaced by a new building designed by the Stuttgart-based architects Hans Volkart, Bert Perlia and Kurt Pläcking between 1959 and 1962. The building with its heritage-listed octagonal auditorium has now undergone a total renovation. The building's structure, the technical equipment of the Schauspielhaus including stage, auditorium, foyers and staff areas were optimized and now meet the latest standards and requirements.

**ACOUSTICS.** In the course of the refurbishment, the auditorium for an audience of 630 was entirely redesigned with a remarkably modern visual appearance. The Schauspielhaus' originally very high attenuation and the resulting low total loudness, in particular in the middle of the audience area, was changed fundamentally. The result is an unconventional, compact auditorium with a significantly enhanced raked seating. Acoustically optimized triangular elements of a remarkable visual appearance were installed for sound direction and sound absorption purposes so that by means of high-energy reflections, the loudness was improved considerably. Combined with the excellent direct sound transmission, an extraordinary speech intelligibility makes the auditorium the perfect venue for plays and drama performances. The reverberation time, a criterion for a room's resonating qualities, was successfully prolonged to the level just ideal for speech.



### CLIENT

Vermögen und Bau Baden-Württemberg, Stuttgart office

### ARCHITECT

Klaus Roth Architekten, Berlin

### PROJECT DATA

Planning and construction period	10/2008 until 02/2012
1st opening	02/2012
2nd opening	09/2013
Gross floor area	10,000 m <sup>2</sup>
Cost of construction	approx. 24 million euros

### SERVICES RENDERED

Room acoustics  
Consulting during all work phases, simulations, test stand measurements

1 New auditorium, view from center stage  
2 New auditorium, view from stage left  
3 New entrance foyer of the Schauspielhaus  
4 View from the control console to the stage  
Pictures: Brigida Gonzalez