



## HUMBOLDT FORUM, BERLIN, GERMANY

**PROJECT SUMMARY.** The new Humboldt Forum in the historic center of Berlin is a unique complex for the arts, culture, science and education. In 2002, the German Bundestag resolved to rebuild the Berlin Palace which had been severely damaged during World War II and finally blown up in 1950. Today, it houses a museum, a library, a university as well as event spaces. Thus, the Humboldt Forum has become one of the largest and most ambitious cultural projects in Germany.

**FOCUS OF CONSULTING SERVICES.** The exhibition concept includes the use of highly innovative multimedia audio and video presentations. The ambitious goal of creating one of the most modern museums in Europe proved to be a particular challenge when taking into consideration the high standard of the architectural and exhibition design. Therefore, highly customized solutions had to be developed. These included designing a large media tower in the Agora with approx. 160 m<sup>2</sup> of video projection area as well as creating high-quality sound reproductions and good acoustic conditions for high-end audio playbacks in the areas of ethnomusicology. Moreover, visitors can interactively control the new three-dimensional virtual reality rooms with 3D video systems.

The new museum building has very high requirements on a constant indoor climate in order to protect all cultural objects. Accordingly, MÜLLER-BBM performed studies for the best possible design of the summer thermal insulation while also taking into account the sophisticated architectural specifications. The energy efficiency of the building envelope was optimized with regard to reducing both heating and cooling energy costs as well as to avoiding major indoor climate fluctuations.



### CLIENT

Foundation for the Humboldt Forum in the Berlin Palace, together with the Federal Office for Building and Regional Planning (BBR)

### ARCHITECT

Franco Stella Humboldt-Forum Projektgemeinschaft GbR (Franco Stella, Hilmer&Sattler-Albrecht GmbH, gmp GP)

### PROJECT DATA

Planning and construction period	2009 – 2021; partial inauguration: 2020
GFA / gross volume	94,340 m <sup>2</sup> / 608,277 m <sup>3</sup>
Cost of construction	530 million euros

### SERVICES RENDERED

Room acoustics, building acoustics, thermal insulation and energy performance calculation, protection against external noise, electroacoustics and media technology (exhibition design)

Planning, overall consulting during all work phases, simulations, vibration measurements

1 North/east facade | 2 East/south facade | 3 Media tower in the Agora  
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