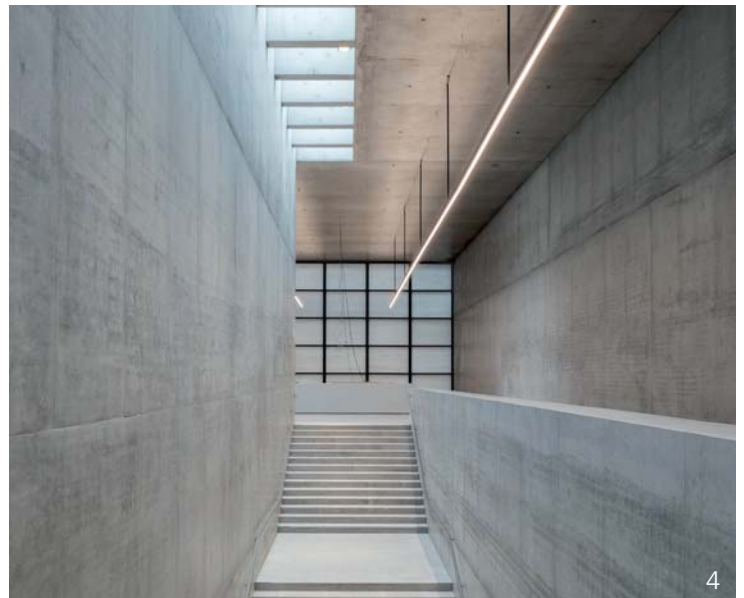


JAMES SIMON GALLERY, MUSEUM ISLAND BERLIN, GERMANY

PROJECT SUMMARY. Berlin's Museum Island is now complemented by a new central entrance building including a visitor center which is named after the Jewish arts patron James Simon. The building is connected underground to the museums via the adjoining so-called Archaeological Promenade and will serve for directing the expected two to three million visitors per year as well as for relieving the historic buildings from the large number of visitors. In addition to the usual infrastructure of a modern museum including checkrooms, museum shop and café, the large exhibition hall will present temporary exhibitions and the auditorium will house different events.

FOCUS OF CONSULTING SERVICES. The consultancy focused on all aspects and details concerning building physics while taking into account the specific climatic conditions in the building. Müller-BBM performed special climate and flow simulations with respect to thermal comfort and a constant indoor climate. The challenge posed by the basement, which is located in permanently pressing ground water, was solved by developing a specific sealing concept. In addition to watertight concrete, the then relatively new construction method with a fresh-concrete composite film system was used for the special exhibition area. Particularly in the foyer and the auditorium, the architectural design with fairfaced concrete required customized measures for optimizing the room acoustics as well as the loudspeaker layout in the foyer areas. Furthermore, in order to achieve the best possible sound insulation, the external staircase located on top of the auditorium was realized as an acoustically decoupled structure.



CLIENT

Prussian Cultural Heritage Foundation, represented by the Federal Office for Building and Regional Planning

ARCHITECT

David Chipperfield Architects, Berlin

PROJECT DATA

Planning and construction period	2007 – 2018
GFA / Gross volume	10,900 m ² / 62,400 m ³
Cost of construction	98.8 million euros

SERVICES RENDERED

Room acoustics, building acoustics, thermal insulation and energy performance calculation, building climatology, sealing technology
Overall consulting during all work phases, simulations

1 View towards the main entrance

2 View along the Kupfergraben

3 Auditorium

4 Upper foyer

Pictures: © Ute Zscharnt for David Chipperfield Architects