



CONSTRUCTION OF FOUR NEW PRIMARY SCHOOLS (4PS), MUNICH, GERMANY

PROJECT SUMMARY. Within the City of Munich's initiative "construction of schools and daycare centers 2020", four new primary schools were built in four different locations. The buildings are designed as modular constructions and in accordance with the so-called "house of learning" approach which establishes and promotes more differentiated and flexible teaching methods as well as self-organized learning. For each modular unit (grades 1 - 4), the "house of learning" concept provides four classrooms, two rooms for all-day pupils, one office for teachers and support staff, one sanitary unit as well as a storeroom. Flexibly and transparently designed elements ensure the space needed to retreat and work in small and very small groups as well as for partner work or teamwork.

FOCUS OF CONSULTING SERVICES. The "house of learning" concept involved the design and implementation of specific acoustic measures. At the same time, there were synergy effects with the building acoustics design and the summer climate control concept. The building meets both the standards of the German Energy Saving Ordinance EnEV 2014 and the energy efficiency measures for urban building construction stipulated by the City of Munich, resulting in an energy efficiency standard of the building envelope that even exceeds legal requirements.

In close collaboration with the architects, Müller-BBM developed for the 4PS project specific sound absorbers for the ceiling area which meet the specific requirements and correspond to the selected prefabricated construction method.



CLIENT

City of Munich H34

ARCHITECT

Prof. Wulf Architekten, Stuttgart

PROJECT DATA

Planning and construction period	2014 - 2017
GFA / gross volume	
- Freiham Quartierszentrum	12,229 m ² / 53,643 m ³
- Aubinger Allee Freiham	9,629 m ² / 44,083 m ³
- Bauhausplatz school	13,289 m ² / 64,035 m ³
- Ruth-Drexel-Strasse school	11,081 m ² / 54,715 m ³
Cost of construction	approx. 99,9 million euros

FUNCTIONAL AREAS IN THE BUILDINGS

Class rooms, multipurpose rooms, music rooms, workshops, assembly hall, dining hall incl. kitchen, offices, sports hall

SERVICES RENDERED

Thermal insulation and energy performance calculation, building acoustics, room acoustics, noise control
Overall consulting

1 Exterior view
2 Break area with barrel-shaped ceiling
3 Daycare center, group room
4 Facade with ventilation element
Pictures: 1 B. Gonzales 2-4 Prof. Wulf Architekten, Stuttgart

