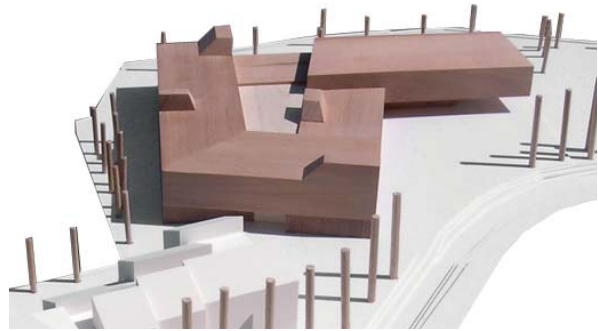


## Martin-Luther-School

**competition** extension of a music-oriented gymnasium with special focus on sustainability **location** Rimbach Odenwald, Germany **size** 10.500m<sup>2</sup> GFA **client** Gebäudewirtschaft Kreis Bergstraße **year** 2009 **project team** Kirstin Bartels, Oliver Seidel, Verena Brehm **cooperation** Transsolar KlimaEngineering, Stuttgart **award** competition purchase

The Martin-Luther-School is an upper secondary school with a special focus on musical education. It houses about 1600 pupils. The extension of the existing building became necessary to adapt to contemporary didactic concepts and to allow for all-day care. It contains classrooms, a natural science block, music rooms, a canteen and a gymnasium. The design translates the demands concerning resource efficiency and preservation in a sensual and sensible manner. The main climatic feature of the building is the shape of the building itself: So called solar-chimneys foster natural ventilation by stack effect and become a significant formal element. The expressive roofscape also emphasizes places inside the building – large roof lights extend the space upwards and provide particular light. During school hours these areas are open spaces to be appropriated by different age groups for independent learning. The building is conceived as a timber frame structure with a larch-wood cladding.



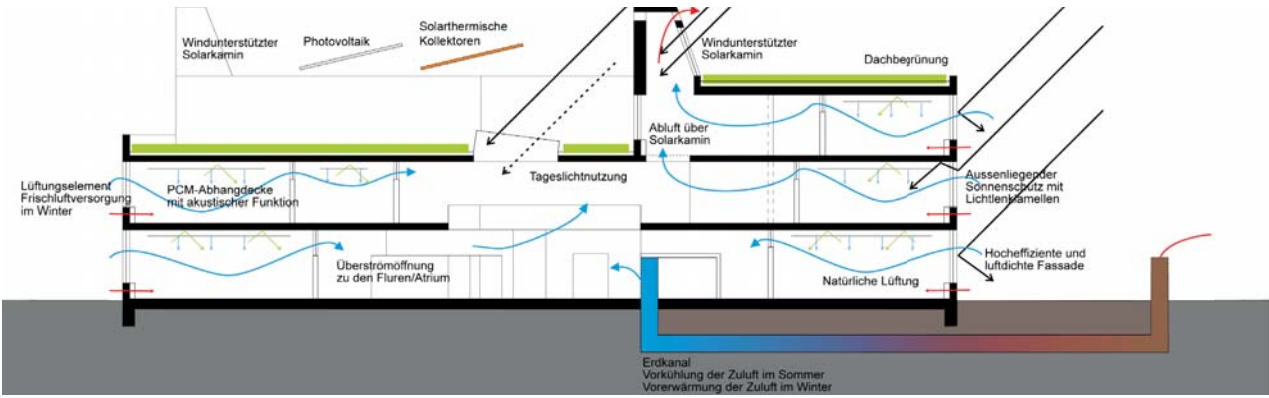
Marquette



Interior view: atrium



Site plan: new building and northern existing buildings



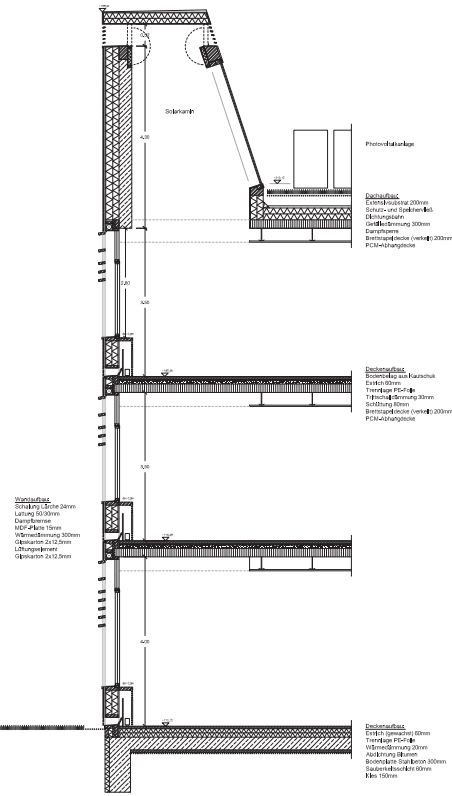
Climatic concept



South elevation: larch-wood cladding and solar chimneys



Detail elevation



Facade section