

# Reference



BMW Four Cylinder Building, Munich

## Essential info

Place / Country:	Munich, Germany
Year:	2007
Project:	High-rise building
Solutions:	Glass Roof KWS 60 Solar control insulation glass Ventilation Flap PR60 SHEV controls Special wind direction controls Black-out mechanisms SHEV flaps
Efficiency:	47% energy saving <b>Uw=1,0 W/(m<sup>2</sup>K)</b> <b>vs. Uw=1,9 W/(m<sup>2</sup>K) as per</b> <b>German Energy Performance</b> <b>of Buildings Directive 2009</b>

## Facelift and energy-efficiency upgrade of BMW's main headquarters and implementation of a state-of-the-art fire safety concept based on SHEV systems and control technologies.

- Glass roof structure in the shape of the BMW logo over the tower's central shaft, solar control insulation glazing with Ug value = 1.2 W/(m<sup>2</sup>K)
- Glass roofs over conference room, foyer and post room, insulation glass with light guidance grid
- Glass roofs over the walkways linking the main tower to the low-rise buildings, which feature windows with controllable glass slats and solar control glass with screen print
- Extruded, thermally separated aluminium sections
- Extension arm drives in tandem layout with synchronisation control and synchronisation sensors
- Special SHEV control panels connected to building control system
- Wind sensors to detect wind direction and speed

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