

WOHNEN 2000 – EXPO HANNOVER
Bebauung am Kronsberg, Hannover

Date
1997 - 2000

Architect
Willen Associates Architekten

Project Value
DM 30m

Project Status
Completed 2000

Wohnen 2000 is a new ultra low-energy housing development of 142 flats near the Hannover fair, in the new "Bebauung am Kronsberg" neighbourhood.

As a landmark environmental project for Expo 2000, Germany's biggest Millennium event, all buildings in the Bebauung am Kronsberg must achieve a maximum energy consumption of 50 kWh/m²/yr.

Wohnen 2000 accomplishes these strict energy targets by grouping apartments around a "Microclimate zone" at the heart of each of the four blocks. This zone minimises solar gain in summer, reduces heat losses in winter, and is used as a fresh air reservoir for the mechanical ventilation system in winter.

All of the apartments have heat recovery ventilation and water conservation systems and will be monitored as part of a research project.



Development site, with microclimate zones between housing blocks (in blue) and a central garden where rainwater is collected in the pool (above)



A moveable membrane within the inflated roof shifts position to control solar gain within the microclimate zone (above); The Microclimate Zone nestles between the housing blocks, while sliding solar shades screen the exterior facades (below)



atelier ten