

Pollack Mihály Faculty of Engineering and Information Technology Institute of Architecture

RESEARCH AREAS

- Performative, adaptive building coating systems
- Building climatology research
- Climate- and energy concept, building typology development for energy autarkic, 0-energy residential and communal buildings, passive house development, vertical farming, low-tech systems
- Energy design R+D+I, building aerodynamics, seasonal energy conservation, innovative shading technology (green organizations)

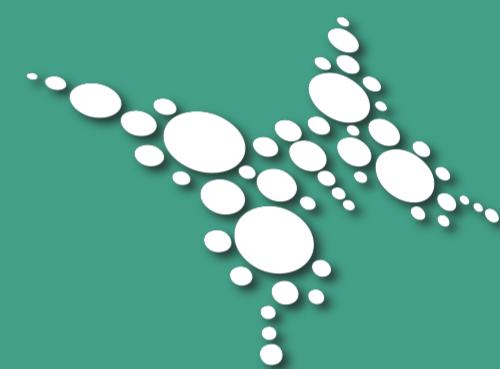
PRODUCTS & SERVICES

- Energy and climate conception development and planning of 0 and + energy residential and communal buildings, passive house development and planning
- Climate chambers, vertical gardening, energy design high rise buildings
- Energy-simulation-aided building planning
- Energy-optimized building restoration
- Shading, light conducting, passive cooling, humidifying elements of climate systems
- Aerodynamically optimized ventilation devices
- Innovative wood structure buildings with concrete or PCM heat storing elements
- Multifunctional building conditioning Zsolnay cells

- Integration of surface low temperature conditioning systems in light structure and silicate structure buildings

SPECIAL INSTRUMENTATION, LABORATORY

- Geothermal building energy solutions in Hungary
- RELUX, Solar computer, Shell solar path, Meteonorm, Ecotech, Wis, 3D studiomax, Archicad
- University of Engineering, Munich: Climate design research laboratory, artificial sky, aerodynamics wind-tunnel station, solar station
- Energy simulation softwares, IDA ICE 4.0, Solar path, Meteonorm 6.0
- Demonstration projects, monitoring stations. RATI factory Sikonda
- Zsolnay Innovation Ceramic machinery



RESEARCH GROUP'S LEADER:

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