

HAMK Sheet Metal Centre

The first near zero-energy hall for retail and commercial premises in Northern Europe. Its airtight walls and roof save energy, and roof and walls harness solar energy. Measured airtightness $q_{50} < 0,8$ m³/h, m².



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Built on the campus of Häme University of Applied Sciences (HAMK), the hall is being used for research, development and teaching purposes by the university, Ruukki Construction and HAMK's Sheet Metal Centre. This hall was built to prove that it is profitable to build a near zero-energy (nZEB) hall also in Northern areas. Ruukki Forma™ and Ruukki Expression™ have been used in the building's façade.

The hall was designed and constructed to meet its goal: to be a building with economical lifecycle use that saves energy and uses existing renewable energy sources. The goal was achieved thanks to optimization of construction solutions. Optimization means selecting solutions based on investment outlays, additional usage costs and future savings. In other words, choosing energy savings or yields that generate the best financial revenue during the lifespan of the building.





