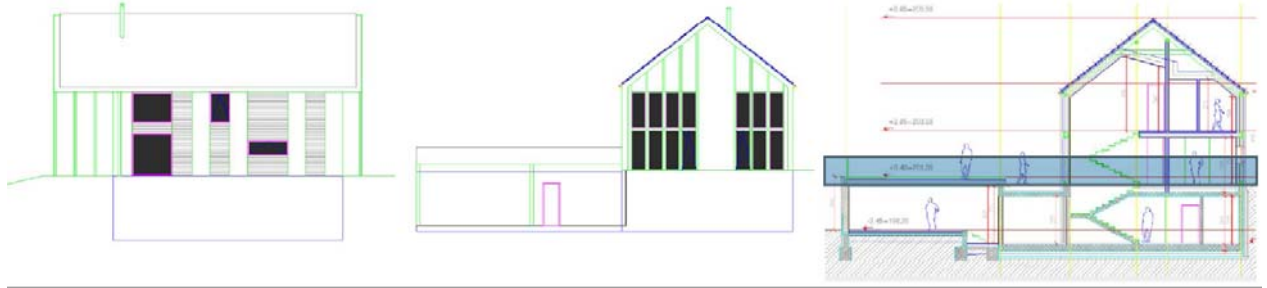


Object name

Residential house in Novo mesto**Slovenia**

Object photo



Object description

House in Novo mesto is passive house build with wooden skeleton founded in cellulose insulation and with other materials from wood. House has basement, ground floor and mansard with altogether 222 m² of heated area.

It has installed central ventilation system which also works as heating unit. In heating season house gains additional heat also with passive solar heat gained through windows and also heat released from heating appliances and heat from residents. Controlled ventilation with recuperation enables influx of fresh and clean air. Degree of measured air exchange is $n_{50} < 0.6 \text{ h}^{-1}$ and assures appropriate air-tightness.

Efficient insulation of nontransparent walls without thermal bridges and highly efficient triple glazed windows enable constant temperature of walls in summer and in winter.

The house was designed and constructed by the company Eko produkt d.o.o.

Fact sheet

Residential house in Novo mesto

Treated Floor Area	222 m ²
Number of apartments	1
Completion date	2009

Energy standard [PHPP]

Heat requirement / year	14 kWh/m ² a
Heat load	14 W/m ²
Primary energy requ.	83 kWh/m ² a
Air-tightness (n_{50} -value)	0.6 1/h
Building type	wood construction

U-value

Exterior wall	0.109 W/m ² K
Roof	0.106 W/m ² K
Basement floor / Floor slab	0.123 W/m ² K
Windows / average	0.73 W/m ² K

Specification ventilation system

Central system

Heating installation

Central unit

Construction costs	1800 Euro/m ²
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Building owner

Jana and Janez Auersperger

Architect/Planner

Petra Ostanek, Soba d.o.o.

Photo credits

Petra Ostanek, Soba d.o.o.