

Object name

**Residential house in Stopče****Slovenia**

Object photo



Object description

House in Stopče is private passive house build from wooden skeleton founded in cellulose insulation. House has 162 m<sup>2</sup> of heated area and 620 m<sup>3</sup> heated volume.

During heating season additional heat is gained with solar radiation through windows and with internal heat released from electric appliances and heat from residents. Efficient thermal insulation of outer walls without thermal bridges and highly efficient triple glazed windows enable constant temperature of walls in summer and in winter. House and sanitary water are heated with compact unit.

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

Fact sheet

**Residential house in Stopče**

Treated Floor Area	162 m <sup>2</sup>
Number of apartments	1
Completion date	2009

**Energy standard [PHPP]**

Heat requirement / year	14 kWh/m <sup>2</sup> a
Heat load	11 W/m <sup>2</sup>
Primary energy requ.	113 kWh/m <sup>2</sup> a
Air-tightness (n <sub>50</sub> -value)	0.6 1/h
Building type	wood construction

**U-value**

Exterior wall	0.103 W/m <sup>2</sup> K
Roof	0.106 W/m <sup>2</sup> K
Basement floor /	0.096 W/m <sup>2</sup> K
Floor slab	
Windows / average	0.88 W/m <sup>2</sup> K

**Specification ventilation system**

Central system

**Heating installation**

Central unit

Construction costs	1200 Euro/m <sup>2</sup>
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**Building owner**

Brigita and Radko Frece

**Architect/Planner**

P&amp;A d.o.o.

**Photo credits**

Borut Golja, Eko produkt d.o.o.