

Object photo



Object description

This passive house is located in suburb of Ljubljana. It is composed from passive standard area and service area, which is not built in passive standard. In the north-eastern part is object covered with green roof.

Living areas in ground floor are orientated to the south-west. South-west orientation offers maximum exploitation of the sunlight through wide windows located in that area.

The construction of the house is made of prefabricated timber elements, insulated with cellulose insulation in walls and roof construction. Walls are insulated with 24 cm and roof with 44 cm of cellulose insulation. Additional insulation on facade is made of 14 cm stone wool.

This passive house won one prize in Slovenian annual competition for energy efficient buildings in 2009.



Fact sheet

**Single family house in Brezovica**

Treated Floor Area	173 m <sup>2</sup>
Number of apartments	1
Completion date	2009

**Energy standard [PHPP]**

Heat requirement / year	15 kWh/m <sup>2</sup> a
Heat load	9,7 W/m <sup>2</sup>
Primary energy requ.	83 kWh/m <sup>2</sup> a
Air-tightness (n <sub>50</sub> -value)	0,45 1/h
Building type	Prefabricated timber construction

**U-value**

Exterior wall	0,109 W/m <sup>2</sup> K
Roof	0,107 W/m <sup>2</sup> K
Basement floor /	--- W/m <sup>2</sup> K
Floor slab	
Windows / average	0,8 W/m <sup>2</sup> K

**Specification ventilation system**

Central System

**Heating installation**

Heat pump

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

Private investment

**Architect/Planner**

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**Photo credits**

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