

Object name

**Residential house in Moste pri Komendi****Slovenia**

Object photo



Object description

Single family house in Moste pri Komendi, because of its agitated architecture, larger treated floor area and therefore slightly larger need for energy for heating, does not totally fulfil requirements for passive houses according to standards, but its energy efficiency puts it into higher class of low energy houses. Its need for heating is 20 kW h/m<sup>2</sup> a.

House is »L« shaped with ground floor and mansard. The house is prefabricated house with wooden skeleton and other materials made from wood. Part of the house in ground floor, where is garage and storage, is massive built and does not reach standards for passive house technology, while mansard above it with large multifunctional room and cloakroom is passive.

According to passive house standard requirements all transparent and nontransparent elements of building enclosure ensure sufficient heat protection. In house are pleasant living conditions in summer and in winter, because during heating season (from October to April) rooms do not need to be much additionally heated and in summer overheating happens rarely, because of efficient shading and appropriate heating.

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

Fact sheet

Residential house in Moste pri Komendi	
Treated Floor Area	266 m <sup>2</sup>
Number of apartments	1
Completion date	2007

**Energy standard [PHPP]**

Heat requirement / year	20 kWh/m <sup>2</sup> a
Heat load	8 W/m <sup>2</sup>
Primary energy requ.	74 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	0.092 W/m <sup>2</sup> K
Basement floor / Floor slab	0.106 W/m <sup>2</sup> K
Windows / average	0.87 W/m <sup>2</sup> K

**Specification ventilation system**

Central system

**Heating installation**

Compact unit

Construction costs	940 Euro/m <sup>2</sup>
--------------------	-------------------------

**Building owner**

Boštjan in Mirjam Kepic

**Architect/Planner**

Tomori arhitekti d.o.o.

**Photo credits**

Mirko Škvorc, Eko produkt d.o.o.