

Object name

**Residential house in Zgoša****Slovenia**

Object photo



Object description

The house is prefabricated house with wooden skeleton and other materials made from wood. It is totally vapor-permeable. It has 180 m<sup>2</sup> of residential area, 440 m<sup>2</sup> of area towards air and volume of 683 m<sup>3</sup>.

Outer walls are 34 cm thick, with cellulose insulation, into which skeleton is founded. The ridge is oriented in the direction east–west and is inclined by 40°. Tightness of the house enabled 0.5 exchange of air at 50 Pa. Heating, ventilation and water heating are performed by compact unit. Geothermal collector is also installed.

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

Fact sheet

**Residential house in Zgoša**

Treated Floor Area 180 m<sup>2</sup>  
 Number of apartments  
 Completion date

**Energy standard [PHPP]**

Heat requirement / year 14.2 kWh/m<sup>2</sup>a  
 Heat load 9.5 W/m<sup>2</sup>  
 Primary energy requ. / kWh/m<sup>2</sup>a  
 Air-tightness (n<sub>50</sub>-value) 0.5 1/h  
 Building type wood construction

**U-value**

Exterior wall 0.113 W/m<sup>2</sup>K  
 Roof 0.105 W/m<sup>2</sup>K  
 Basement floor / Floor slab 0.258 W/m<sup>2</sup>K  
 Windows / average 1.1 W/m<sup>2</sup>K

**Specification ventilation system**

Central system

**Heating installation**

Compact unit and fireplace

Construction costs 800 Euro/m<sup>2</sup>**Building owner**

Dr. Franci Petek

**Architect/Planner**

Arhitekturni atelje Bogdan Dacar s.p.

**Photo credits**

Mirko Škvorc, Eko produkt d.o.o.