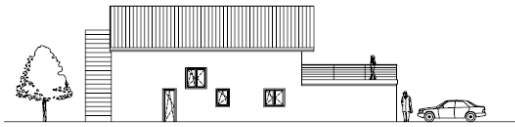


Object name

Residential house in Zbilje**Slovenia**

Object photo

SEVERNA FASADA



VZHODNA FASADA

ZAHODNA FASADA

JUŽNA FASADA



Object description

House in Zbilje is passive house built from wooden skeleton founded in cellulose insulation. House has ground floor and mansard and has altogether 212 m² of heated area.

House is heated with central ventilation system. During heating season heat from solar radiation through windows is also collected and also heat released from electrical appliances and residents contributes to heating. Controlled ventilation with recuperation enables influx of fresh and clean air. Rate of air exchange is $n_{50} < 0.6 \text{ h}^{-1}$ and ensures efficient air-tightness. Efficient thermal insulation of outer non-transparent walls without thermal bridges and highly efficient triple glazed windows enable constant internal temperature in winter and in summer.

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

Fact sheet

Residential house in Zbilje

Treated Floor Area	211,5 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.	86 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 /	0.131 W/m ² K
Floor slab	
Windows / average	0.88 W/m ² K

Specification ventilation system

Central system

Heating installation

Compact unit

Construction costs / Euro/m²**Building owner**

Privat

Architect/Planner

Matjaž Križman s.p.

Photo credits

Matjaž Križman s.p.