

Object name

EPD Klimek**Slovakia**

Object photo



Object description

Passive house with massive construction of aerated concrete blocks with airtightness less than 0,2 1/h. It is a two stories single family house with cellar and heatless attic. The house has a south orientation.

There is installed a ventilation unit with subsoil heat exchanger for preheating and precooling of air.

For heating is used an oven with hot-water exchanger and floor heating with possible cooling.

Insulation of window frames with wrapped wall embrasure. On the west side is shading with controlled jalousie.

Fact sheet

Single family house in Piešťany

Treated Floor Area	177 m ²
Number of apartments	1
Completion date	2009

Energy standard [PHPP]

Heat requirement / year	13 kWh/m ² a
Heat load	13 W/m ²
Primary energy requ.	-- kWh/m ² a
Air-tightness (n ₅₀ -value)	0,18 1/h
Building type	massive construction

U-value

Exterior wall	0,1 W/m ² K
Roof	0,08 W/m ² K
Basement floor /	0,2 W/m ² K
Floor slab	
Windows / average	0,79 W/m ² K

Specification ventilation system

Autonomous ventilation unit with earth exchanger

Heating installation

Solar system and chimney

Construction costs --- Euro/m²

Building owner

private

Architect/Planner

ADV Klimek, Ing. Ján Klimek

Photo credits

Ing. Ján Klimek