

Object photo



## Object description

This kindergarten in small village in north-western part of Slovenia, built in passive standard offers maximum comfort for all children and employees.

Kindergarten is planned as a single-story building, combined from two objects connected with a passage with big windows.

Prefabricated timber construction is insulated with cellulose insulation in walls and roof construction. Walls are insulated with 24 cm and roof with 50 cm of cellulose insulation. Additional insulation on the walls is made with 14 cm of stone wool on the facade.

Concrete plate is insulated with 24 cm of extruded polystyrene underneath and additional 7 cm above concrete plate.

## Fact sheet

<b>Kindergarten in Posavec</b>	
Treated Floor Area	831,9 m <sup>2</sup>
Number of apartments	
Completion date	2008

**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	0,102 W/m <sup>2</sup> K
Roof	0,099 W/m <sup>2</sup> K
Basement floor / Floor slab	0,124 W/m <sup>2</sup> K
Windows / average	0,78 W/m <sup>2</sup> K

**Specification ventilation system**

Central System

**Heating installation**

Heat pump

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

**Building owner**

Municipality of Radovljica

**Architect/Planner**

ING ARH, Polona Čeh s.p.

**Photo credits**

Lumar IG d.o.o.