

Object name

## Family House in Burlusi, Comuna Ciofringeni, Judetul Arges

Romania

Object photo



Object description

The most important aspects are: the envelope and structure masonry from BCA ( similar to Ytong) with additional thermal insulation of 24 kg/m<sup>3</sup> Polystyrene for exterior and mineral wool for the interior. The roof thermal insulation is mineral wool and Polystyrene.

Renewable solar energy is used.

The house has a floor heating system and wood combustion heating system.

Rainwater is collected for use in the garden.

Fact sheet

### One family house

Treated Floor Area	280 m <sup>2</sup>
Number of apartments	
Completion date	2004

### Energy standard [PHPP]

Heat requirement / year	15 kWh/m <sup>2</sup> a
Heat load	14 W/m <sup>2</sup>
Primary energy requ.	80 kWh/m <sup>2</sup> a
Air-tightness (n <sub>50</sub> -value)	0,60 1/h
Building type	Massive construction

### U-value

Exterior wall	0,12 W/m <sup>2</sup> K
Roof	0,10 W/m <sup>2</sup> K
Basement floor /	0,15 W/m <sup>2</sup> K
Floor slab	
Windows / average	0,80 W/m <sup>2</sup> K

### Specification ventilation system

### Heating installation

Construction costs	--- Euro/m <sup>2</sup>
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### Building owner

Ruxandra & Marin Crutescu

### Architect/Planner

Dr.Arch. Ruxandra Crutescu  
SC AMVIC SRL

### Photo credits

Dr.Arch. Ruxandra Crutescu