

## Passive house Caldonazzi, Austria



Picture source: AEE INTEC

## Passive house Caldonazzi, Single-family house with solar collectors integrated in the façade

### PROJECT

This very first Austrian Passive House was built in 1995/1996 in Vorarlberg by the architect Richard Caldonazzi.

This house has no conventional heating system. The energy concept is based on:

- Loss minimization by means of very good insulation
- Passive solar energy
- Energy from solar collectors

The south facing wall is a 100% solar facade: 75% Solar-passive (windows) and 25% solar-active (facade integrated solar collectors).

The wall construction is noteworthy. Outside, a thermal cork insulation film is attached to the brick walls, interior walls consist of rammed clay between the wooden posts.



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### **Key figures**

- Gross area: 400 m<sup>2</sup>
- Heated area: 180 m<sup>2</sup>
- 17 m<sup>2</sup> façade integrated solar collectors
- 3500 l water heat store
- Auxiliary heating: not necessary
- Building costs: 1.420 Euro/m<sup>2</sup>

The solar system is a combined system, contributing to both domestic hot water preparation and space heating.

### **Solar collector:**

Glazed flat plate water collector  
Collector producer: Helmut Rosskopf



Picture source: AEE INTEC

## GALLERY



**PHOTOS;**  
AEE INTEC

- Built/Completion:  
1996
- Builder:  
Martin Caldonazzi
- Architect:  
BM Ing. Richard Caldonazzi
- Construction:  
Holzbau
- Address/Location:  
Amerlügen, Vorarlberg,  
Austria
- Type of project:  
Single-family house



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