# 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.





Picture source: AEE INTEC

## **Key figures**

Gross area: 400 m<sup>2</sup>

- Heated area: 180 m<sup>2</sup>

- 17 m² façade integrated solar collectors

- 3500 I water heat store

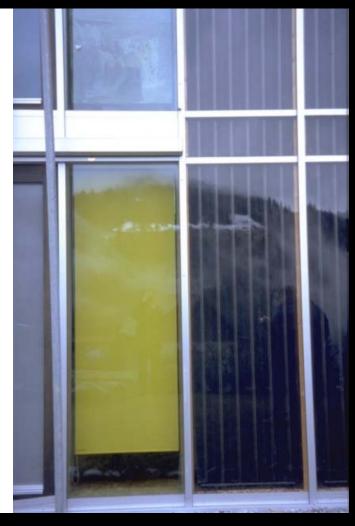
- Auxiliary heating: not necessary

- Building costs: 1.420 Euro/m2

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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