

HQ AKS DOMA Solartechnik, Austria



Picture source: AEE INTEC

HQ, AKS DOMA Solartechnik,

Office building and production hall with solar collectors integrated in the façade

## PROJECT

The head quarter of the Austrian solar collector producer AKS DOMA Solartechnik was, at the opening in spring 1999, one of the first buildings with CO<sub>2</sub> neutral energy supply. The energy and electricity demand for the offices with 470 square meters and the production hall with a floor area of 1,380 m<sup>2</sup> is covered exclusively from renewable energies.

The heat distribution in the office building is performed via a wall heating system. The production hall is heated via a floor heating system integrated in the concrete floor.

The concrete floor (90 cubic meters) is used both as a radiator as well as a heat store. As a result of the excellent thermal insulation of the building and the corresponding dimensioning of the wall- and floor heating systems, the system can be operated with very low flow temperatures. These low supply temperatures offer ideal conditions for the operation of the solar thermal plant.



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### **Key figures**

- Heated area: 479 m<sup>2</sup> office area + 1389 m<sup>2</sup> production hall
- 80 m<sup>2</sup> façade integrated solar collectors (directly south oriented)
- Heat store: 950 l water heat store
- Auxiliary heating: Bio diesel block heat and power plant
- Heat distribution: wall and floor heating

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

### **Solar collector:**

Glazed flat plate water collector  
Dimensions: 3000 mm length, 95 mm width  
Collector producer: AKS DOMA



Picture source: AEE INTEC



## GALLERY



**PHOTOS;**  
AEE INTEC

- Built/Completion:  
1999
- Client  
Aks Doma Solartechnik
- Project design:  
Gruppo Sportivo (Bludenz),  
MHM (Dornbirn)
- Address/Location:  
Sonnenstrasse 1  
6822 Satteins  
Vorarlberg, Austria
- Type of project:  
Commercial building

