

Trimo EcoSolutions



**Trimo EcoSolar AIR**

Solar Air Collector

## Trimo EcoSolar AIR

**Trimo EcoSolar AIR** is an element that uses solar energy to heat the air. It is integrated into the building envelope and consists of the standard roof panel and ventilated air cavity. The fresh air from the environment enters the air chamber, where it heats up due to absorbed solar radiation.

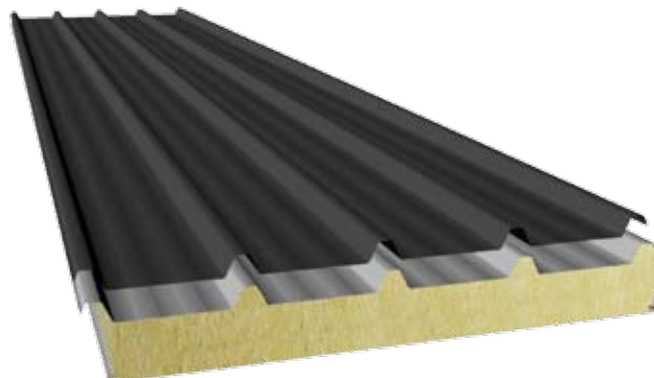
The fresh, preheated air can be used for various purposes:

- **In buildings, for ventilation and heating.**  
In this way, energy consumption and heating costs are reduced.
- **In buildings, to heat sanitary or process water using air/water heat exchanger.**  
In this way, energy consumption and water heating costs are reduced.
- **In drying chambers for drying** of hay, wood, produce, spices ... With quicker drying, the quality of the product increases.



### Trimo EcoSolar AIR Solar Air Collectors

The basis of **Trimo EcoSolar AIR** is the SNV roof panel with an integrated ventilated air cavity. The top surface can be coated in any number of dark shades, ensuring high efficiency of **Trimo EcoSolar AIR**.





## Trimo EcoSolar AIR Advantages of the solution

### ENVIRONMENTAL

- environmentally friendly energy source
- reduced emissions of CO<sub>2</sub>

### ENERGY

- transformation of solar energy into heat
- use of solar energy for heating and ventilation of buildings
- use of solar energy to heat sanitary water
- use of solar energy for drying

### ECONOMICAL

- long lifetime
- increased market value of the building
- independence from existing energy sources
- support and individual consultingg

### ARCHITECTURAL

- an integrated solution without additional elements that ruin the overall aesthetics of the roof
- no additional substructure necessary (lower roof load, less possible points of failure or additional punctures in the roof)
- suitable for commercial, industrial, business, entertainment, residential and other buildings



## TrimoExpert AIR software software for forecasting produced heat energy

To support the users of **Trimo EcoSolar AIR** we developed our own software, TrimoExpert AIR, which can be used to forecast the heat energy produced by **Trimo EcoSolar AIR**.



The calculations account for:

- location
- slope
- orientation
- size
- shading by the surroundings and neighbouring buildings

Investments in solar energy are investments into the future



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