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Solar absorbers

# Overheating protection for solar thermal systems

# Maximum efficiency, zero overheating

Not only do you find efficient solar collectors on private houses, but ever more often being used to provide heating and hot water to businesses, swimming pools, laundries etc. With the right absorber, you can expect decades of low maintenance and efficient heating.



Building at Burj Khalifa, Dubai, with solar collectors using mirotherm®



Overheating protection

96%

Absorption coefficient



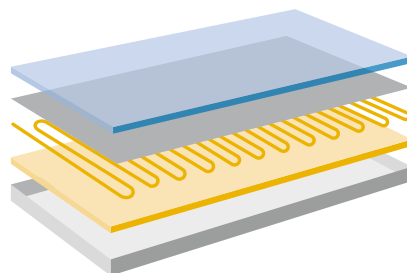
Made in Germany

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Years of warranty

The absorption coefficient of an absorber is a crucial indicator of the system's efficiency. **mirotherm® Control from Alanod achieves an absorption coefficient of up to 96 %,** thus exploiting the maximum solar radiation available. The best thing about it: mirotherm® Control has a built-in overheating protection which protects your solar thermal system permanently and minimizes maintenance costs.

## Structure of a typical thermal flat-plate collector



- Solar glass
- Absorber, recommended: mirotherm® Control
- Tubes filled with solar fluid layer
- Insulation
- Frame construction





Solar thermal system with absorbers from Alanod at the Albstadt State Sports School



## mirotherm® Control with integrated overheating protection

When there is high solar radiation and low heat extraction, the collector can easily overheat, known as stagnation, which leads to a considerable undesired load on the entire system. **mirotherm® Control has an integrated overheating protection**, which can reduce the stagnation temperature by up to 40 °C. This makes it the ideal solution for providing the best possible protection for solar thermal systems.

For you this means:

- No additional structural measures necessary
- Minimal loss of solar fluid through evaporation
- Increased service life of the solar fluid by preventing floc formation
- Longer service life of all components within the entire system due to reduced temperatures
- Reduced maintenance needs and hence lower operating costs

mirotherm® Control is **THE** alternative to switchable coatings. Made by Alanod in Germany, the market leader in highly selective coatings. **We provide you with a 10-year manufacturer's warranty on mirotherm® Control. Talk to one of our experts now – it's worth it!**

## Care for the Environment

Conserving natural resources has been part of our corporate philosophy ever since our company was founded in 1975. Today, Alanod is a climate-neutral, sustainably run company. Due to the excellent recycling properties of aluminium, our materials use up to 90 % recycled aluminium. This consumes up to 95 % less energy compared to primary aluminium production.

Our cutting-edge post-combustion technology enables production of all of our materials without the need for excessive energy input. All our electricity needs are met using “100 % green” energy sources.

## Made in Germany

Our high-tech materials are all manufactured at our sites in Germany.

## System Development

Our broad-based team of experts develops individual solutions for our customers in close cooperation with international research institutions and long-standing industrial partners. Talk to us so that we can work together to fulfill your wishes.



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