



SUNMARK - the security of experience

The idea of a flat plate collector is that its surface is able to receive as much sunlight as possible and that the panels form an aesthetic unity with their surroundings at the same time.

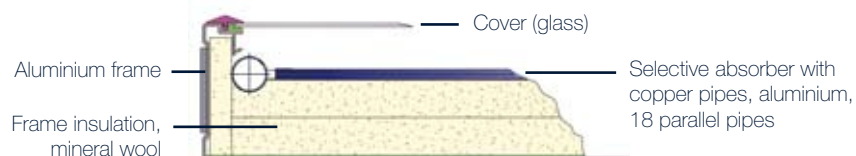
SUNMARK's solar panels are certified according to EU standards.



3 m² solar collector

Description

Type:	Flat plate solar collector
Frame:	Aluminium, anodized black
Glass:	Tempered, low iron
Thermal insulation:	Mineral wool
Absorbing area:	3 m ²
Dimension:	2600 x 1320 x 130 mm
Net weight:	72,5 kg
Gross weight:	75 kg (with water)
Working pressure:	0-5 bar
Heat transfer fluid:	Water/glycol mixture
Max. temperature:	120°C
Max. working temp.:	95°C
Pipe connections:	15 mm
Expected life time:	More than 20 years
Certificate:	EN 12975-2



Absorber

Solar energy is transformed into heat by the aid of an absorber. The absorber is located inside the solar module. It absorbs the heat of the sun and transmits it to a liquid, which circulates in a piping system. The liquid volume in the 3 m² panels is around 2,5 liters. The absorber is made of copper/aluminium and has an absorbance of more than 96%.

Glass

The cover is a special, tempered glass. A greenhouse effect (heat) occurs between the absorber and the glass. Moreover, the glass protects the absorber against dust and rain. The glass is low iron.

Teflon

It is possible to verify the panels with teflon. Teflon increases the effectiveness.

Frame

The frame is available in grey aluminium or can be anodized in black.