
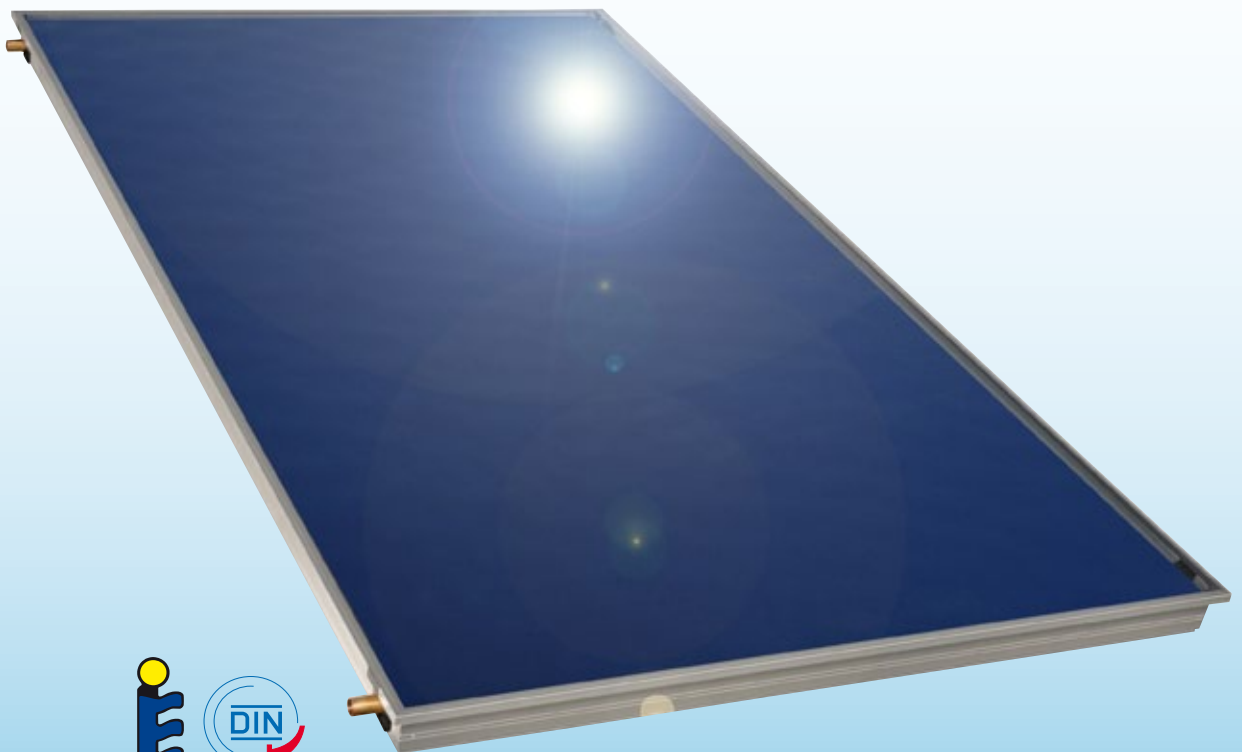


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the world of energy saving



Flat Solar Panel

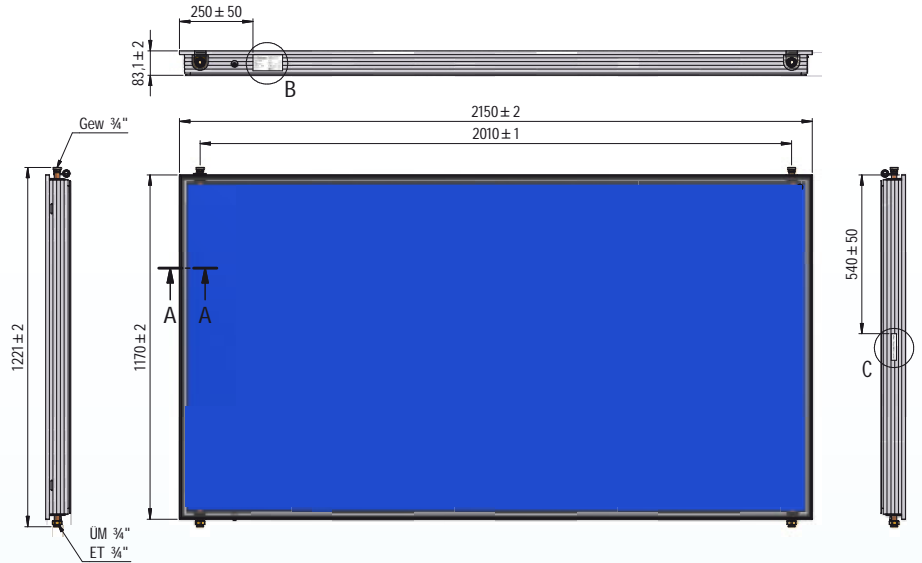
**FK8250N**  
**FK8250L**



[www.ecoscience.se](http://www.ecoscience.se)

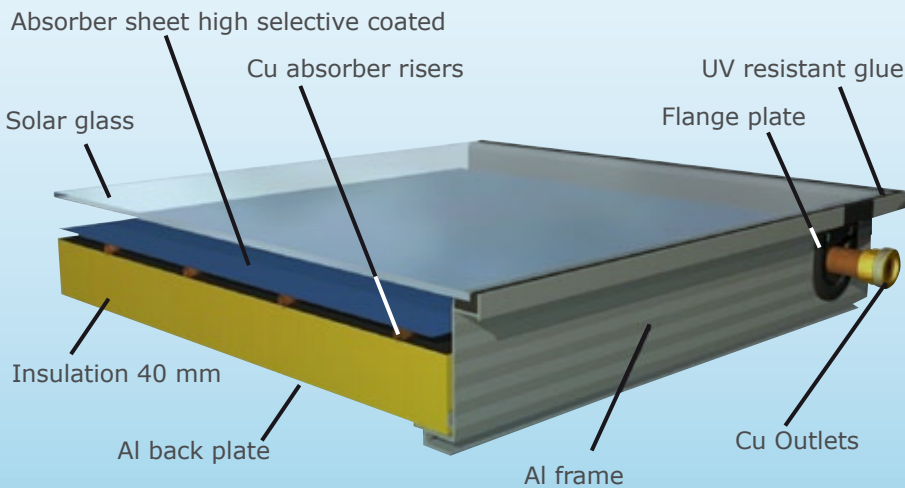
# Specification

The light-weight FK8250 series solar panels are manufactured on a fully automated robotics line. The number of individual components has been kept at a minimum for this product concept. Gluing is the only joining technique used at the FK8250; a specially developed two-component adhesive does the job. Equipped with a modular mounting system, the collectors can be used for both flat-roof and roof-mounted installations.



# ECOScience FK8250 product benefits

- Optimal value for money due to intelligent product design based on a minimum number of individual components
- The use of quality, recyclable materials ensures a long service life and high environmental compatibility
- High-quality design can also be used without glass clip frame
- Maximum precision due to manufacturing on a robot-controlled production line
- Tempered, low iron solar safety glass
- Maximum heat transfer between the absorber sheet and the copper grid because of optimized ultrasonic and laser welding technology
- Installation-friendly mounting system with bench screws and roof brackets for all common types of roofs
- Horizontal and vertical installation possible



# Collector technical data & installation options

Technical data	Collector model	
	FK8250N	FK8250L
Collector type	Roof-mounted collector	
Overall area [m <sup>2</sup> ]	2.51	2.51
Absorber area [m <sup>2</sup> ]	2.3	2.3
Aperture area [m <sup>2</sup> ]	2.39	2.39
L x W x H [mm]	2150 x 1170 x 83	1170 x 2150 x 83
Weight [kg]	42	42
Connections	4	2
Absorber capacity [l]	1.7	1.7
Housing	Al-frame	
Surface	Al, natural	
Back plate	Al-sheet	
Absorber sheet	Al, highly selectively coated	
Absorption* [%]	95	
Emission* [%]	5	
Ø manifold [mm]	18 (3/4")	
Ø risers [mm]	8	
Connections	blank (compression joint), coupling nut with flat seal	
Glass	3.2 mm tempered solar safety glass	
Transmittance of glass [%]	90	
Insulation	40 mm mineral wool plate	
Max. stagnation temperature	234 °C under test conditions	
Max. operating pressure	10 bar	
Proper heat transfer medium	Polypropylene glycol / water mixture	
Approved installation angle	min. 15°, max. 75°	
Wind and snow tolerance	150 km/h / 690 kg	

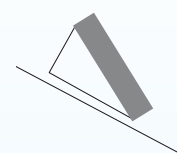
\* Reference collector with Al/Cu absorber, highly selective coating, four connections

Flat roof, 45°



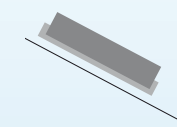
Mounting at 45° angle, flexible positioning possible. Attached through the roof cladding using screws.

On-roof, 20°



Mounting system parallel to roof of house or at 20° angle.

On-roof, parallel



Mounting rails are attached through the roof cladding using bench screws or roof brackets.



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