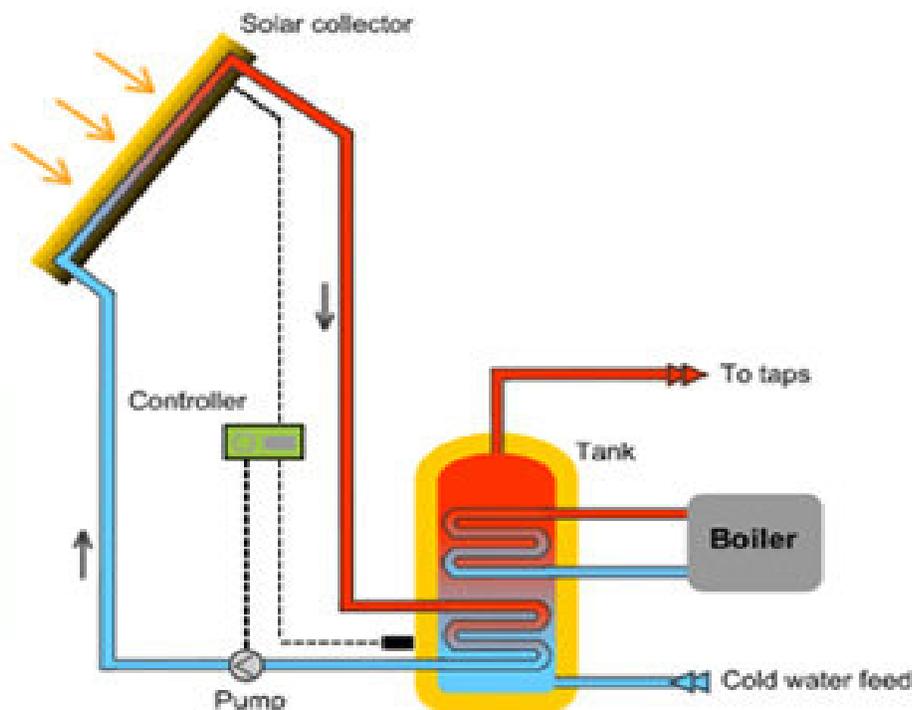


## SOLAR PANELS

### How do they work?

Solar Heating involves the direct conversion of light into heat. A solar water heating system normally consists of a solar collector, a regulating unit with pump and a well-insulated hot water cylinder. The solar collector, or solar panels converts the sunlight it receives into heat. This heat is generated through the collection of the sun's ray by which a dark coloured absorber, which is connected to a piping system. The heat transfer fluid in the piping system absorbs the heat and is pumped to the hot water cylinder, where the heat is transferred to the water by a heat exchange coil.

Solar panels will generate your solar energy even on hazy and overcast days. When averaged out over a year a correctly sized solar water heating system can provide up to 70% of a household's hot water needs at almost no cost to the homeowner.



## **Fitting the Panels on your Roof**

The Hewalex Solar Panels can be integrated in to your roof during the build, or can be roof mounted onto existing roofs. They can be fitted to a sloping roof or on a flat roof with stand.

Even though almost every roof type is suitable, the inclination and direction are very important. South-facing with an inclination of 45° are ideal and will achieve optimal performance of the solar system.

The direction can be from East to West but South, Southeast or Southwest are preferred.



## **Hewalex Solar Panels**

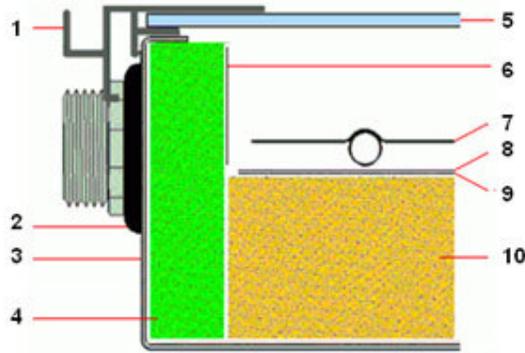
The Hewalex flat plate solar panel collectors are manufactured in Poland. These panels are highly efficient and low maintenance solution to your solar hot water needs.

Benefits of using Hewalex Solar Panels

- 10 year guarantee on the panel
- Life expectancy 25 years
- SEI registered product
- Durable and low maintenance
- Environmentally friendly
- More aesthetically pleasing
- Flush-mounted in the roof
- Surface-mounted on the roof
- Mounted on façades , sloping walls & parapets of balconies

**Solar Panel Details**

- 1 - Cover rail
- 2 - Seal
- 3 - Outer casing – lightweight corrosion proof aluminium
- 4 - Rockwool insulation
- 5 - Hail proof solar glass
- 6 - Fiber glass
- 7 - Copper absorber
- 8 - Aluminium foil
- 9 - Fiber glass
- 10 - Rockwool insulation



**Hewalex KS 2000 S/P**

Gross Length	2.020 m
Gross Width	1.040 m
Gross Height	0.088 m
Gross Area	2.101 m <sup>2</sup>
Aperture Area	1.829 m <sup>2</sup>
Absorber Area	1.766 m <sup>2</sup>
Weight (Empty inc. cover)	38.0 kg
Fluid Capacity	1.0 l
Energy Produced p/a	910 kWh
Casing Material	Aluminium
Sealing Material	EPDM
Insulation Material	Rockwool 20 and 55 mm



**Hewalex Solar Panels are approved by Sustainable Energy Ireland (SEI).**

***Save money on your purchase***

**Greener Homes Scheme Grants now available**

The Greener Homes Scheme provides assistance to homeowners who intend to purchase a new renewable energy heating system for either new or existing homes. The scheme is administered by Sustainable Energy Ireland and aims to increase the use of sustainable energy technologies within Irish homes over the next 5 years.

Solar Water Heaters – Solar panels are grant aided by € 300 per m<sup>2</sup> up to 12 m<sup>2</sup> max.

To get information on the Greener Homes Grants please go to their website [www.sei.ie](http://www.sei.ie) where you can access any of the information you will require and you can also download the application form.