

# Solex Roofing - Solar heating without the panels

Solar water heating has proved to make a significant contribution in the reduction of CO<sub>2</sub> emissions. It is a step forward towards a more sustainable home and it makes sense financially.



*5 bedroom house - 22m<sup>2</sup> for water heating*

Solex Roofing uses our lightweight, patented, solar black absorber sited under toughened glass slates or polycarbonate tiles. It does away with the need for conventional flat panel or evacuated tube solar collectors, which are unsightly, bulky and expensive.

The result is solar heated water that can be used for hot water, space heating and pool heating as well as commercial and industrial applications.

## Why choose Solex Roofing?

Solex Roofing offers a complete package for your solar water heating requirements.

- Integrated system – it replaces the traditional roofing material and improves roof insulation
- Efficient performance all year round – 50-70% for hot water and space heating, and nearly all the heat a swimming pool requires throughout at least 3 seasons of the year
- Low m<sup>2</sup> cost compared with normal solar panels or tubes
- Whole roof faces may be covered resulting in significant fuel savings and CO<sub>2</sub> emissions reduction
- Aesthetically pleasing - the planning authorities have welcomed our solar roofing design
- Simple and quick installation process and low maintenance
- No change to roof structure is necessary
- Guaranteed for 10 years with an estimated life-span of 35 years



## A combination of functionality and aesthetics

The visual effect of these tiles is a uniform medium to light grey, resulting from the reflection of the sky on the surface and the black colour of the absorbers beneath.



*The Groundhouse episode in Brittany - Grand Designs*

Made with extremely durable and wind-lift proof materials, our solar roofing can be fitted across the whole side of the roof or as a patch surrounded by other roofing materials.

We have specially designed and developed our roofs to best integrate with standard slates, concrete tiles including Marley Modern and Redland mini-stonewold types, and Nu-Lok slates.

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## Operation – the basics

The roof to be covered should face between SE and SW with South-facing being ideal. The optimum pitch is between 30 and 50 degrees.

The sun shines through the transparent roof covering onto a patented silicone rubber solar absorber strip, which becomes hot. Water is circulated through the absorber strip by a pump, and transfers the absorbed heat to where it is required. The transparent roofing prevents heat loss from the absorber strip to the air, and a rear-insulating layer prevents heat loss into the roof structure and improves roof insulation.

A solar controller unit controls the system and delivers the heat to where it is most needed, with safeguards so that when it detects that no more heat is required, the system is put into standby with no harm to the solar roof. The absorbers are freeze resistant, so antifreeze is not required in the system.



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