



Zenith Flat Plate 'On tile' 'Inset'

Solar thermal collectors

- 10 YEAR WARRANTY ■
- SOLAR KEYMARK SEAL OF APPROVAL ■
- IDEAL FOR RETROFIT & NEW BUILD APPLICATIONS ■

Zenith Flat Plate 'On tile' 'Inset' Solar thermal collectors



- ON TILE COLLECTORS - Ideal for retro fit applications with solar collectors sitting on top of the roof tiles, therefore requiring minimal adaptation to the roof.
- INSET COLLECTORS - Ideal for new build applications with collectors sitting in the roof, therefore requiring less roof tiles and resulting in a neat and discreet finish.
- High build quality, designed to use both direct sunlight and daylight, and a highly selective finish on the copper absorber plate maximises energy performance even on cloudy days.
- The collectors have an aluminium body, with a single piece copper absorber plate to create a greater reflective surface, maximising energy performance.
- Flat plate collectors achieve optimum performance when positioned on a south facing roof at an angle of 35° and 45°. If this position is not possible, a split system could be used whereby one collector would be placed on the east facing side of the roof and another on the west.
- The collectors are ultrasonically welded together to ensure high build quality and product longevity.
- Heat transfer fluid flows through twelve individual copper pipes in the collector to create a large surface area for absorption.
- As a guide, 1m² of solar collector is required per person in a household. Up to six collectors can be connected in a series.
- Zenith solar thermal collector systems are pressurised which provides greater flexibility for siting of the collector and a faster reaction time to daylight and sunlight, maximising upon the sun's energy.
- The bottom and walls of the collector tray are lined with 4cm of rock wool insulation to maximise heat retention and energy efficiency.
- Low iron oxide content for high energy transmission and to minimise corrosion.
- Each collector is protected with tempered glass to withstand extreme weather conditions, such as hail stones.
- A well installed Zenith system will provide a reliable and extremely efficient service with a life expectancy of approximately 20+ years.
- Pre Sales is service available to provide advice and assistance on suitability and free design service.

SPECIFICATIONS	FLAT PLATE COLLECTOR
TOTAL AREA	2.43 M ²
EXPOSED AREA	2.20 M ²
EFFECTIVE ABSORPTION AREA	2.15 M ²
DIMENSIONS (MM) (H X W X D)	2046 X 1186 X 90
EMPTY WEIGHT	40 KG
LIQUID CONTENT	1.6 LITRES
RECOMMENDED FLOW RATE PER M ² (L/H)	30 LITRES
ABSORPTION (α)	95%
EMISSIONS (β)	5%
MAXIMUM PERMITTED PRESSURE	10 BAR
MAXIMUM TEMPERATURE	204°C
ZERO LOSS COLLECTOR EFFICIENCY (η ₀)	0.798
COLLECTOR HEAT LOSS EFFICIENCY A1 W/(m ² K)	4.27

FLAT PLATE COLLECTOR PACKAGE CODES	
DESCRIPTION	CODE
ON TILE PITCHED ROOF PACKAGE	29450195
ON TILE FLAT ROOF PACKAGE	29450196
INSET SLATE ROOF PACKAGE	29450191
INSET TILE ROOF PACKAGE	29450192

FLAT PLATE COLLECTOR PACKAGE INCLUDES	
FLAT PLATE SOLAR COLLECTORS (X2)	AIR VENT
ROOF KIT	EXPANSION VESSEL
GLYCOL	PREMIUM CONTROLLER
PUMP STATION	

FLAT PLATE - DOMESTIC PROPERTY INSTALLATION



⁽¹⁾Subject to registration.



ErP Compliant



10 Year
Warranty⁽¹⁾



SOLAR
KEYMARK



MANUFACTURED
IN HOUSE

GET IN TOUCH

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