



Quote Reference: Townsend3 Solar Thermal Panel System

Description	Cost
<p>1st Fix Solar Thermal Panels</p> <p>Supply and installation of a Vaillant AuroTHERM VFK 145V 2 panel system to go on a south facing roof. This includes the installation of pre-insulated stainless steel pipes from the solar panels to the solar controller pump station. Other roofing contractor is to install two tile vents at the solar panel installation area, ready for the Solo Heating Installations operative to install the flow and return pipes.</p>	<p>Materials & Installation: £2,128.00</p>
<p>2nd Fix Solar Thermal Panels</p> <p>Connection of the flow and return pipes to the solar panels, and solar control pump unit.</p>	<p>Materials & Installation: £160.00</p>
<p>Final Fix Solar Thermal Panels</p> <p>Connection and installation of the flow and return pipes from the solar controller to the solar cylinder. This will include a full bore drain valve, in-line dirt filter and air release valve.</p> <p>Filling of the solar primary pipework system, with the addition of a Vaillant solar antifreeze mixture.</p> <p>Supply and installation of a Vaillant AuroMatic 560 solar controller and connection to the solar pump unit. Programming and commissioning of the solar controller, including the cylinder heat up times, set back timer, pump speed, control settings, night time set back and stop/start temperatures. Electrical installation and connection of the cylinder temperature sensors, panel sensors, flow and return sensors and 560 control unit to the mains supply.</p> <p>Commissioning records and manufacturers unit warranties handed over on job completion. All systems and units left in good working order.</p>	<p>Materials & Installation: £944.00</p>



First Fix Solar Thermal £2,128.00
Second Fix Heat Solar Thermal £110.00
Final Fix Heat Solar Thermal £944.00

Sum: £3,182.00

+ VAT 0% Zero Rated : £0.00

Total : £3,182.00

Additional Notes:

Certain 1st fix electrical supplies must be provided by the main electrical contractor. These include two un-switched fused spurs at the solar pump station location.

Quote does not include the upgrade cost from a standard hot water cylinder to a solar dual coil cylinder.

Any additions or modifications to this specification on site *may* incur an extra charge.