

## SUNWARM HOT WATER

### Consultants Specification

#### System description

The solar hot water system shall be in the form of a flat plate solar collector using selectively coated copper absorber, encased in sturdy extruded aluminium frame structure with aluminium back capable of in roof and on roof installation. The solar collector shall have low iron solar glass of at least 4mm thickness and should have passed BS EN 12975 tests with at least 75% efficiency.

The solar collector must be well insulated using an approved sustainable insulation material. All external fitting components should be made of stainless steel or aluminium to avoid corrosion. The solar collectors must be well insulated to reduce heat losses and must include an air vent for reduction of condensation as well as having a built in solar collector sensor pocket. The weight of each collector should not exceed 50kg.

Inlet and outlet connections are preferred to be on top for easier and more aesthetically pleasing connection in series.

The solar system shall include a solar station utilizing a solar rated circulating pump, a flow meter, easily accessible points for pressure filling the solar loop, temperature and pressure gauges, an air separator and a temperature and pressure relief valve. The system shall also include as a minimum an 18 litre solar rated 10 bar expansion vessel. All terminal connections from solar station must be in 15mm or 22mm compression fitting.

Appropriate antifreeze premixed solution must be supplied.

Sunwarm Hot Water has a 5 year warranty.