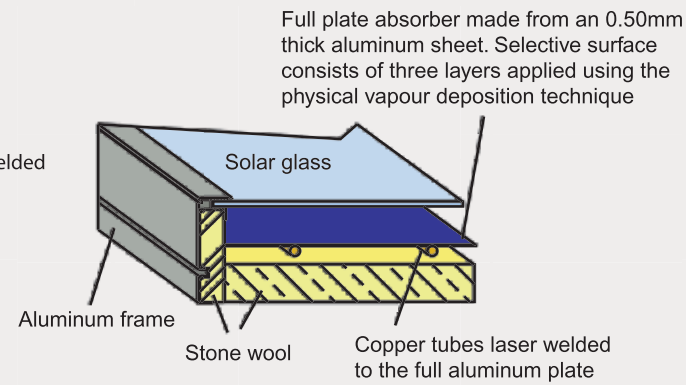




solar systems  
efficient  
durable

→ **A25S Selective Collector**

Full plate absorber. Copper tubes are welded to the plate using laser technique.



Collector structure

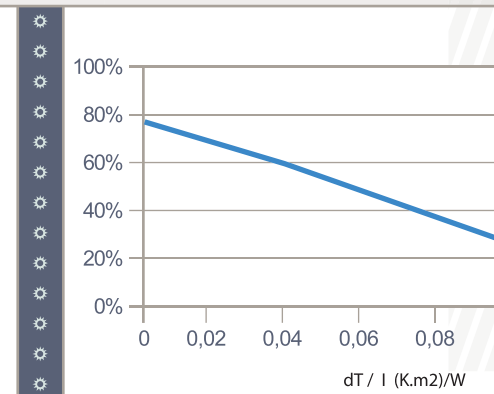
The A25S selective collector manufactured by Intersolar consists of:

- \* Full plate absorber made from a 0.50mm thick selective aluminum sheet. Selective surface consists of three layers applied using the physical vapour deposition technique PVD. Copper tubes are welded to the plate using laser technique.
- \* Aluminum frame.
- \* Back and lateral stone wool thermal insulation.
- \* Tempered Solar Glass with prismatic structure.

Collector data

		A25S
Length	(mm)	1985
Width	(mm)	1240
Thickness	(mm)	84
Collector Area	(m <sup>2</sup> )	2.5
Absorber Area	(m <sup>2</sup> )	2.3
Weight of empty collector	(kg)	41
Liquid capacity	(kg)	2
Nominal Flow Rate	(l/h)	125
Max Operation Pressure	(bar)	7
Absorption coefficient	%	95
Emission coefficient	%	4

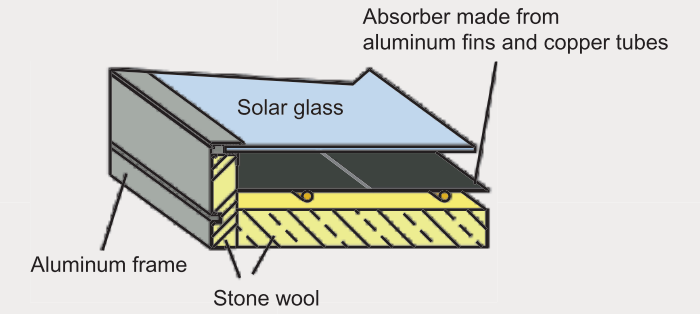
Collector efficiency (%)



solar systems  
efficient  
durable

→ **Collectors P25S, P20S and P15S**

Non selective flat plate collectors



Collector structure

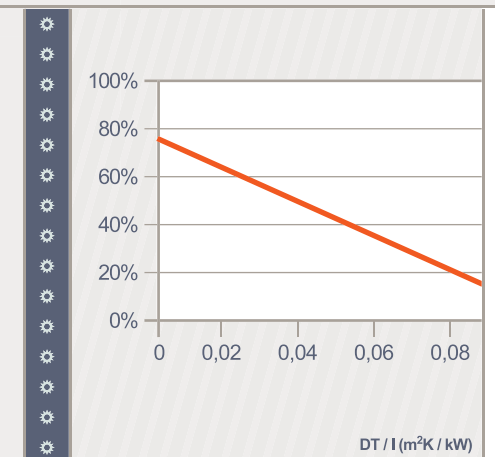
The P- series collectors manufactured by Intersolar consist of:

- \* Absorber made from aluminum fins, through which copper tubes are placed. The copper tube and aluminum fin are in perfect contact to each other using an expansion technique, thus guaranteeing optimal heat transfer and therefore high efficiency.
- \* Aluminum frame.
- \* Back and lateral stone wool thermal insulation.
- \* Tempered Solar Glass with prismatic structure.

//Collector Data

		P25S	P20S	P15S
Length	(mm)	1985	1565	1565
Width	(mm)	1240	1240	905
Thickness	(mm)	84	84	84
Collector Area	(m <sup>2</sup> )	2.5	2.0	1.5
Absorber Area	(m <sup>2</sup> )	2.3	1.8	1.3
Weight of empty collector	(kg)	41	34	28
Liquid capacity	(kg)	2	1.7	1.4
Nominal Flow Rate	(l/h)	125	100	75
Max Operation Pressure	(bar)	7	7	7

//Collector efficiency



**// Solar Keymark**

Solar Keymark is a strict European certification scheme requiring a specific quality assurance system, extensive testing of the product, sampling of the products to be tested by third party independent inspectors, etc.



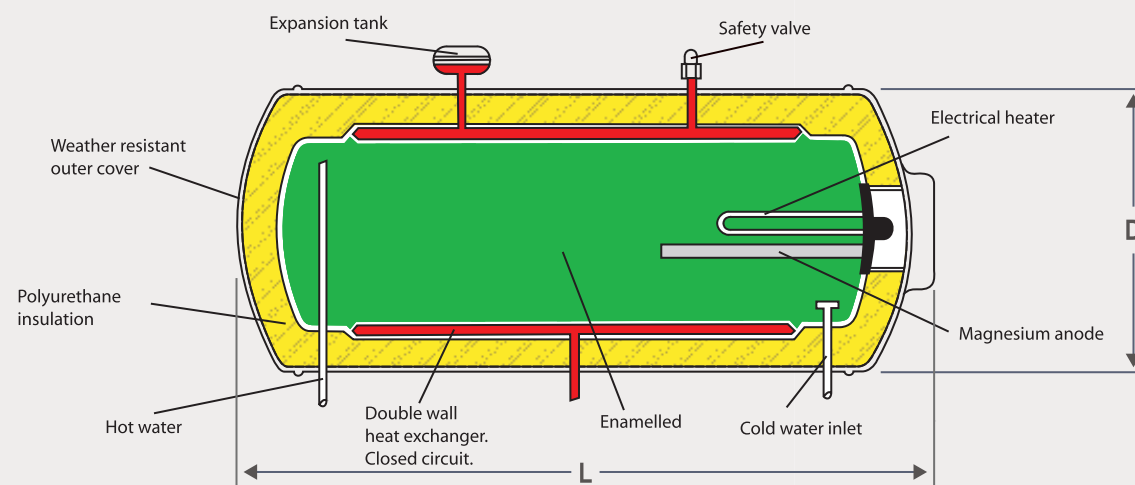
**// Quality Assurance EN ISO 9001**

**// Collector testing EN 12975**  
Efficiency and Durability



→ Storage tanks B12, B16, B20, B30

The Intersolar storage tanks are specially manufactured for natural circulation water heaters, ie thermosiphonic solar water systems, operating without pump and controls. The outer cover consists of a metal sheet, resistant to the ambient conditions throughout the whole year. The tanks are made for closed loop systems, ie they include a double wall heat exchanger, for the circulation of the primary circuit liquid, a mixture of water and antifreeze liquid. This primary circuit liquid transfers the solar heat captured by the solar collectors to the sanitary water inside the water tank. The heat is stored there, thus enabling the use of solar energy when it is not available, eg during night or when skies are clouded. An electric heater and an optional pipe coil, connected to the gas or fuel boiler, provide for hot sanitary water during prolonged lack of solar radiation. All boilers carry the CE mark, stating compliance with the EU electrical safety directives.



// Storage tank technical data

		B12	B16	B20	B30				
Nominal Capacity	(lt)	120	160	200	300	Operating pressure:	-Sanitary water	bar	7
D	(mm)	500	500	580	580		-Collector	bar	2
L	(mm)	1120	1340	1340	1900	Heating coil area		(m <sup>2</sup> )	0,18
Heat exchange area	(m <sup>2</sup> )	0.69	0.88	1.04	1.60		(accessory for connection to gas/oil boiler)		
Weight (empty)	(kg)	68	75	86	115				

// CE Marking

The storage tanks of Intersolar are equipped with an electric heater. The CE Marking certifies that all requirements of the relevant EU directives ensuring safety are fulfilled.

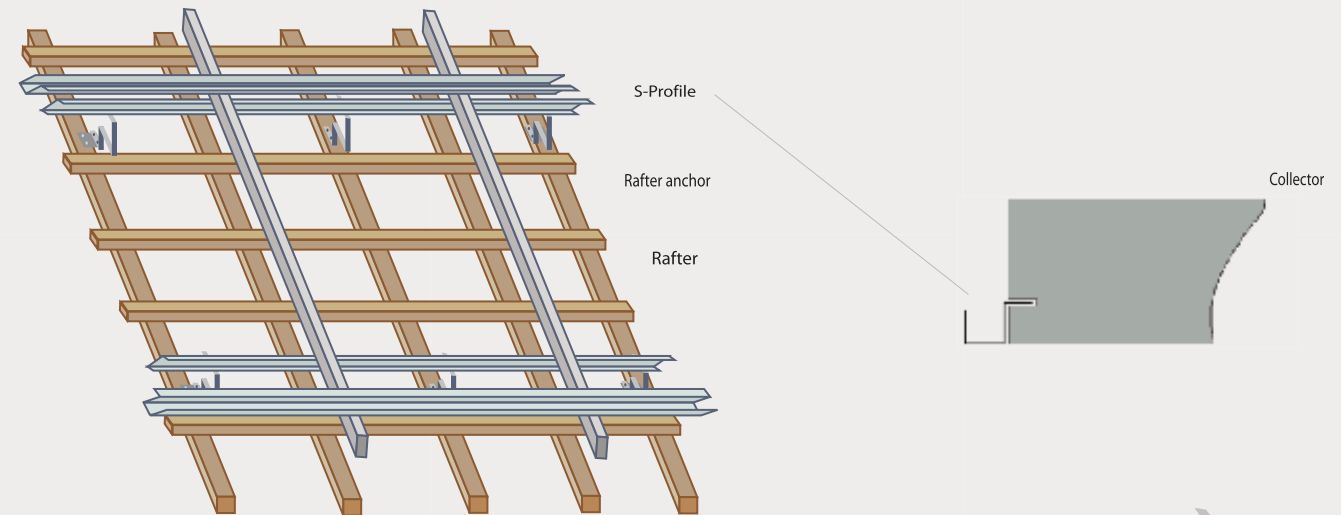


→ Mounting sets for tiled roofs

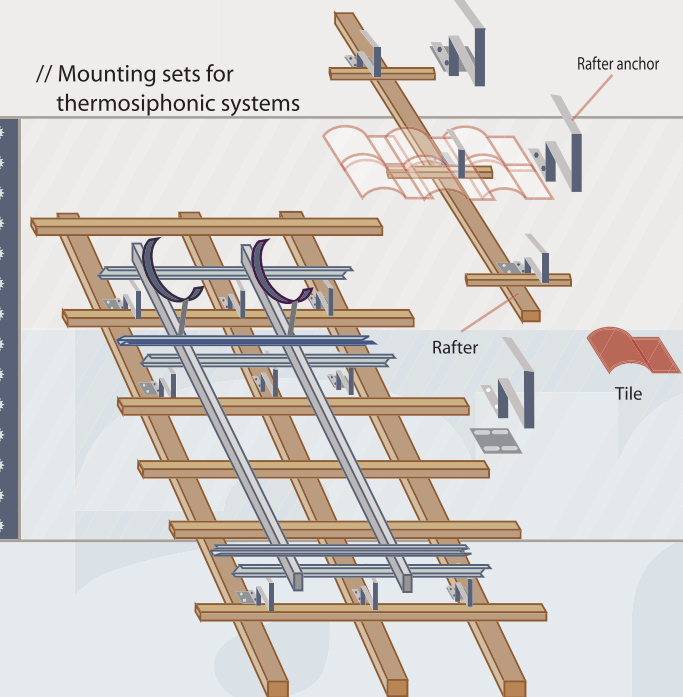
(Product types : Auf/..)

The mounting sets manufactured by Intersolar are very stable and suitable for all types of roof tiles. Mounting is quick and easy. The weight of the collectors or solar systems is mainly carried by the structure of the mounting sets and not by the roof tiles, eliminating thus the breaking of the tiles and the resulting rain water penetration into the roof. There are different types of mounting supports for thermosiphonic solar systems and collectors only.

// Mounting sets for collectors



// Mounting sets for thermosiphonic systems



Mounting set	Supports	Type
<b>For collectors</b>		
2 collectors A25S or P25S	6	Auf/2
3 collectors A25S or P25S	8	Auf/3
2 collectors P20S or P15S	6	Auf/2 P
3 collectors P20S or P15S	8	Auf/3 P
<b>For thermosiphonic systems</b>		
1 collector P20S or P15S and 1 storage tank	9	Auf/120
2 collector P20S or P15S and 1 storage tank	12	Auf/200
1 collector A25S or P25S and 1 storage tank	9	Auf/120L
2 collectors A25S or P25S and 1 storage tank	12	Auf/200L

