



Solar Energy Specialist Since 1978

CASH IN ON THE SUN

Brochure





Pricing and Overview

An African leading manufacturer for solar water heating and provider of smart energy solutions, Through constant innovation, we continue to push the industry forward by creating and distributing great products in renewable energy.

SolarBeam is a level 1 B-BBEE contributor with a SABS mark of approval, and is recognised as the longest operating Solar company in Africa,

WE MANUFACTURE DOMESTIC SOLAR WATER HEATING.

Sizes start from 150L and industrial solar water heating from 500L-2000L tanks.

We manufacture both direct and indirect water heating systems.

Pick a Plan that Works for your home or business.

Inroof design quoted seperately

Direct

200L

From

R24 999
incl.VAT

Designed for 3 users

Free Installation

Choose in roff/on roof design

High pressure system

10 Year warranty tank & panel

1 panel

Direct

300L

From

R32 999
incl.VAT

Designed for 5 users

Free Installation

Choose in roff/on roof design

High pressure system

10 Year warranty tank & panel

2 panel

Indirect

200L

From

R27 999
incl.VAT

Designed for 3 users

Free Installation

Choose in roff/on roof design

High pressure system

10 Year warranty tank & panel

1 panel

Indirect

300L

From

R34 999
incl.VAT

Designed for 5 users

Free Installation

Choose in roff/on roof design

High pressure system

10 Year warranty tank & panel

2 panel

Location

World-Class Production

The plant produces Solar water heating products with among the highest level of quality

Our production process is key to our bankability. Through precision engineering, we bring everything from raw materials to finished modules under one roof.

With multiple computerized and manned quality monitoring stations throughout. This ensures lower production costs and maximum quality and throughput. In line with our growth strategy, we have invested in the latest production technology. This technology is designed to be modular, enabling, efficient and faster replication in future production plants.



Durban



Johannesburg



Solar Water Heating

10 YEAR WARRANTY

Bried Outline



South Africa's Longest Operating
Solar Company
Established 1978



Design
Manufacturing
and Installation
For all provinces in South Africa
and neighbouring African
countries



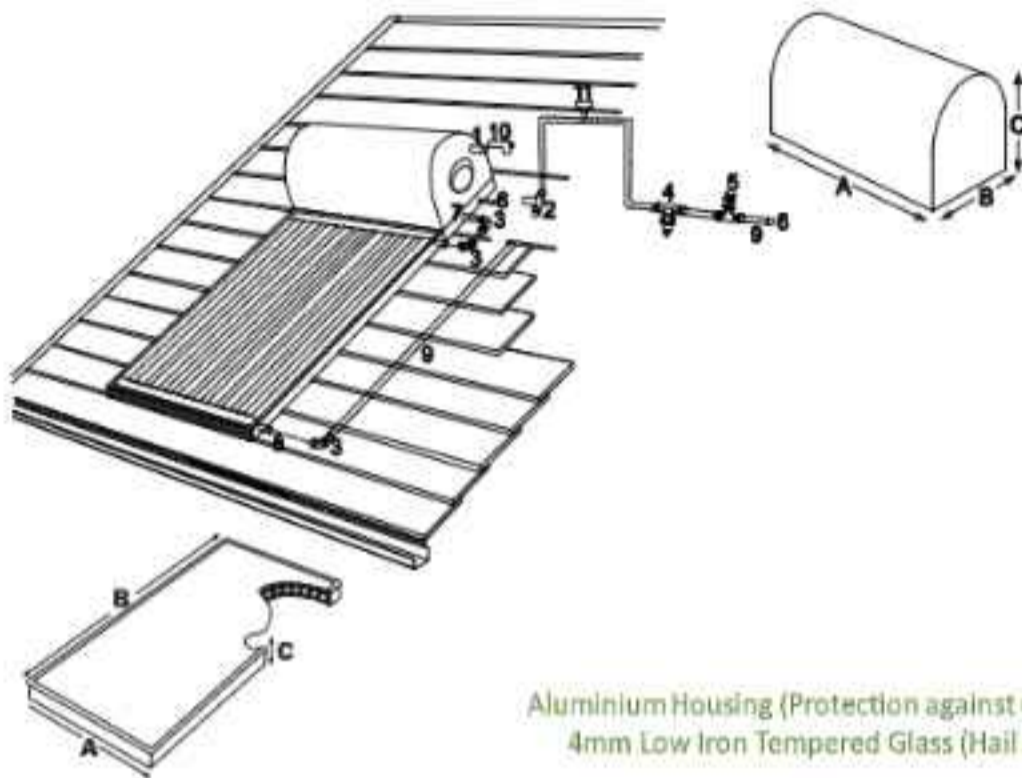
Specialising in:
Industrial, Commercial
and Residential projects

Why use SolarBeam Solar Water Heating Systems?

- Cuts Electricity cost by up to 45%
- Reduces carbon footprint
- Increase the value on your property
- South Africa enjoys the almost perfect climate for solar water heating
- The payback on the investment can be as little as 4 years (the time when you recover the cost of the system and installation)
- The life expectancy of the solar system can be upwards of 15 years

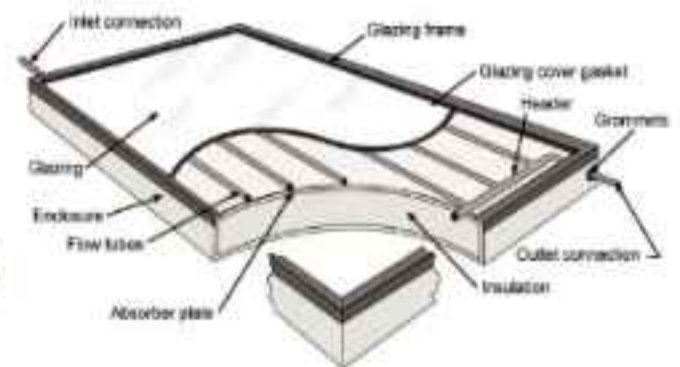
Specifications and Guideline

TYPICAL SCHEMATIC DIAGRAM SHOWING A CLOSE COUPLED, THERMOSYPHON INSTALLATIONS



1. Hot water outlet
2. 22 mm female centre 'T'
3. 22 mm compression elbow
4. Pressure reducing valve with expansion facility
5. Stop cock
6. Cold water inlet
7. Solar return
8. Cold inlet to collector
9. 22 mm OD copper pipe (or equal approved)
10. Temperature pressure safety valve
11. Vacuum breaker

Aluminium Housing (Protection against corrosion)
4mm Low Iron Tempered Glass (Hail Resistant)



INSULATION

50mm closed cellular non-biodegradable moulded high-density polystyrene jacket
k-factor 0,036 W/M²/C⁰

INNER CYLINDER

Working pressure up to 400 kPa,
Tested to 800 kPa. 2mm x LDX 2101 Stainless Steel
SolarBeam solar storage cylinders are fitted with safety temperature pressure valves as standard procedure

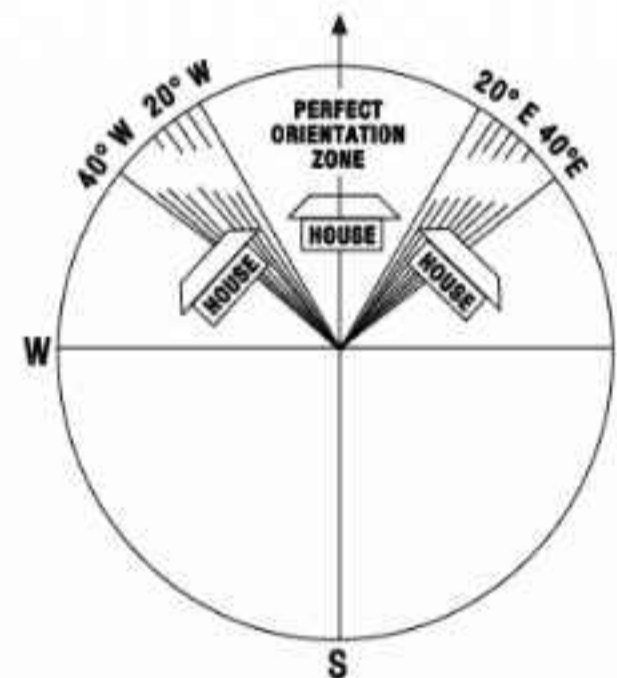
ABSORBER – Copper tube in pressed galvanised sheet a snap fit for maximum heat transfer.

GLAZING – 4mm armour plate, clear glass.

GLAZING TRIM – Aluminium.

INSULATION - Compressed 50mm insert spun-glass insulation k-factor 0,045 W/M²/C⁰.

WORKING PRESSURE – Tested at 800 kPa with working pressure up to 400 kPa



Positioning of collectors to the sun
The diagram below serves as a guide for the correct facing when installing your SolarBeam solar water heater

Aperture area	Surface Area	A	B	C	Mass empty	Connection mm
2.5 m ²	3.2 m ²	1250mm	2040mm	80mm	56kg	22 mm

SOLARBEAM STORAGE CYLINDER / GEYSER SPECIFICATIONS

Litre	A	B	C	Element rating	Mass	No. panels	Working pressure
150L	1050mm	610mm	560mm	2kw	52kg	1	Up to 400 kPa
200L	1360 mm	610 mm	560 mm	2 Kw	60 Kg	1	Up to 400 kPa
300L	2000 mm	610 mm	560 mm	3 Kw	75 Kg	2	Up to 400 kPa

RESIDENTIAL, COMMERCIAL AND INDUSTRIAL SOLAR WATER HEATERS,
DESIGNED, MANUFACTURED AND INSTALLED BY SOLARBEAM

SolarBeam uses Flat Plate Solar Technology in all its systems. Flat Plate Technology was developed specifically to harness the sun power of African conditions, and is far superior to Evacuated Tubes (developed for European conditions) when applied locally. Understanding the difference between various technologies and how they should be applied, is crucial to implementing a system that will really save you money.

SolarBeam's Solar Water Heating Systems have been professionally designed by our onsite engineers, these systems are made out of compatible materials that have been tried, tested and perfected, for the harsh African conditions. From the harsh sand storms and thunderstorms of North Africa, through to the extreme humidity of Southern Africa, and are structured to survive the toughest African conditions.

SolarBeam is the only company in SA that manufactures its tanks from a specialised Stainless Steel that can extend the lifetime of its tanks to more than 15 years, our Solar Panels are 100% Freeze Resistant and are manufactured from the highest quality material and tempered glass.

IN-ROOF SOLAR WATER HEATER



ON-ROOF SOLAR WATER HEATER



IN-ROOF SOLAR WATER HEATER



SOLAR WATER HEATER
(AFFORDABLE HOUSING)





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SOME OF OUR CORPORATE CLIENTS



Standard Bank



Eskom

TOYOTA



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Preferred supplier to
Eskom
and
Department of Energy