

SWH CONFORMITY REPORT

Validity: 2011-06-07

Summary of test results for the Powerzone domestic solar system in accordance with SANS 1307 and SANS 6211-1

Report Number: **SANS 6211-1** **09S148 b**
 SANS 1307 **08S148 a**

This is not a SABS approved product; it has only been tested by the SABS.

SAMPLE INFORMATION:	
Manufacture	Powerzone
Suppliers Contact details	011 965 0127 /0147 / 0149 theuns@powerz-on.co.za
Water storage tank	200 Lt 400 kPa
Type of System	Direct can withstand frost, Mechanical dump valve.
Type of operation	Thermal Siphon
Type of Tank	W.E. Geyser, Solar geyser
Type of Collector	Flat plate 11 copper rises
Heat transfer fluid	Not Applicable
Collector Aperture Area m ²	2.16 m ²
Collector Size	1.78 x 1.3 m
Q factor	18.91 At 16MJ/m ² with temperature difference of 10°C

Compliance to this section is Compulsory	
Element [#] kW	SANS 181 Comply 2kW Satchwell
Pressure Control Valve [#]	SANS 198 Comply 400 kPa, 533CV4, Caleffi
Safety Valve [#]	SANS 198 Comply 400 kPa, 18kW Apex
Vacuum breaker [#]	SANS 198 Comply PB 6.302, Cobra
Drain Cock [#]	SANS 1808-53 Not supplied
[#] Needs to be tested to a national standard	

	Tests conducted:	Specification, Clause	Result:
1	Stagnation test (Exposure Test)	SANS1307- 5.2	Complied
2	Rain Penetration	SANS 1307- 4.11.1	Complied
3	Hail Test: 11J ±1J	SANS 1307- 4.11.2	Complied
4	Freeze Test	SANS 1307- 4.11.3	Complied
5	250 000 Pulsation test	SANS 1307- 4.11.4	Complied
6	Marking	SANS 1307- 6.1	Complied
7	Thermal performance- Q factor	SANS 6211-1 5.5	Complied
8	Heat loss	SANS 6211-1 5.7	Complied
9	Fixed electric storage water heaters	SANS 151	(W.E.) Mark Holder
10	Safety of household and similar electrical appliances – Part 2: Particular requirements for storage water heaters.	SANS 60335-2-21 SANS 1307 4.11.6	(W.E.) Mark Holder
11	Production standard	ISO 9001	-
	Remarks:		

This information was supplied by the supplier.
This document does not imply in any way that the system is SABS approved.