

**SWH CONFORMITY REPORT**

**Validity: 2011-07-05**

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 c**  
**SANS 1307**      **09S148 a**

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

<b>SAMPLE INFORMATION:</b>		
Manufacture	Powerzone	
Suppliers Contact details	011 965 0127 /0147 /0149    theuns@powerz-on.co.za	
Water storage tank	150 Lt	400kPa
Type of System	Direct can with stand Frost, uses Mechanical dump valve.	
Type of operation	Thermal siphon	
Type of Tank	WE (Duratherm) geyser.	
Type of Collector	Flat plate 9 Copper Risers	
Heat transfer fluid	Not applicable	
Collector Aperture Area m <sup>2</sup>	1.71 m <sup>2</sup>	
Collector Size	1.78 x 1.04 m	
Q factor	14.4 MJ    At 16MJ/m <sup>2</sup> with temperature difference of 10°C	

<b>Compliance to this section is Compulsory</b>	
Element# kW	SANS 181 Comply 2kW Satchwell
Pressure Control Valve#	SANS 198 Comply 400 kPa, Kwikot Multi
Safety Valve#	SANS 198 Comply 400 kPa, 18kw Kwikot SYR
Vacuum breaker#	SANS 198 Comply Kwikot SYR
Drain Cock#	SANS 1808-53 Comply Kwikot
<b># Needs to be tested to a national standard</b>	

	<b>Tests conducted:</b>	<b>Specification, Clause</b>	<b>Result:</b>
1	Stagnation test (Exposure Test)	SANS1307- 5.2	<b>Complied</b>
2	Rain Penetration	SANS 1307- 4.11.1	<b>Complied</b>
3	Hail Test: 11J ±1J	SANS 1307- 4.11.2	<b>Complied</b>
4	Freeze Test	SANS 1307- 4.11.3	<b>Complied</b>
5	250 000 Pulsation test	SANS 1307- 4.11.4	<b>Complied</b>
6	Marking	SANS 1307- 6.1	<b>Complied</b>
7	Thermal performance- Q factor	SANS 6211-1 5.5	<b>Complied</b>
8	Heat loss	SANS 6211-1 5.7	<b>Complied</b>
9	Fixed electric storage water heaters	SANS 151	<b>WE geyser (Mark Holder)</b>
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	<b>WE geyser (Mark Holder)</b>
11	Production standard	ISO 9001	-
	Remarks:		