


SOLAR COLLECTOR CERTIFICATION AND RATING  SRCC OG-100	<u>CERTIFIED SOLAR COLLECTOR</u> SUPPLIER: Your Solar Home, Inc. 299 Applewood Crescent, Unit 4 Vaughan, ON L4K 4E7 MODEL: SolarSheat 1000G COLLECTOR TYPE: Glazed Flat-Plate CERTIFICATION #: 100-2006-008C
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COLLECTOR THERMAL PERFORMANCE RATING

Megajoules Per Panel Per Day				Thousands of Btu Per Panel Per Day			
CATEGORY (Ti-Ta)	CLEAR DAY 23 MJ/m ² ·d	MILDLY CLOUDY 17 MJ/m ² ·d	CLOUDY DAY 11 MJ/m ² ·d	CATEGORY (Ti-Ta)	CLEAR DAY 2000 Btu/ft ² ·d	MILDLY CLOUDY 1500 Btu/ft ² ·d	CLOUDY DAY 1000 Btu/ft ² ·d
A (-5°C)	13	10	7	A (-9°F)	12	10	7
B (5°C)	10	7	4	B (9°F)	10	7	4
C (20°C)	6	4	1	C (36°F)	6	3	1
D (50°C)	1			D (90°F)	1		
E (80°C)				E (144°F)			

A-Pool Heating (Warm Climate) B-Pool Heating (Cool Climate) C-Water Heating (Warm Climate) D-Water Heating (Cool Climate) E-Air Conditioning

Original Certification Date: June 4, 2007

COLLECTOR SPECIFICATIONS

Gross Area:	1.204 m ²	12.96 ft ²	Net Aperture Area:	1.037 m ²	11.16 ft ²
Dry Weight:	19.5 kg	43 lb	Fluid Capacity:	1 l	gal
Test Pressure:	0 kPa	0 psig			

COLLECTOR MATERIALS

Frame:	Aluminum Extrusion
Cover (Outer):	Tempered Glass
Cover (Inner):	None
Absorber Material:	Tube - / Plate - Aluminum
Absorber Coating:	Powder coating
Insulation (Side):	Polyisocyanurate
Insulation (Back):	Polyisocyanurate

PRESSURE DROP

Flow		Δ P	
m/s	gpm	Pa	in H ₂ O
0	0.00	0	0.00
0	0.00	0	0.00
0	0.00	0	0.00

TECHNICAL INFORMATION

Efficiency Equation [NOTE: Based on gross area and (P) = Ti-Ta]				Y Intercept	Slope
SI Units:	$\eta = 0.489$	$-6.8242 (P)/I$	$-0.0043 (P)^2/I$	0.49	-6.9913 W/m ² ·°C
IP Units:	$\eta = 0.489$	$-1.2026 (P)/I$	$-0.0004 (P)^2/I$	0.49	-1.232 Btu/hr·ft ² ·°F

Incident Angle Modifier [(S) = 1/cos θ - 1, 0° ≤ θ ≤ 60°]

$K_{\alpha} = 1.0$	-0.1084 (S)	-0.1851 (S) ²
$K_{\alpha} = 1.0$	-0.09 (S)	(Linear Fit)

Model Tested:	1500GS
Test Fluid:	Air
Test Flow Rate:	40 l/s 85.0 scfm

REMARKS:

June, 2007

Certification must be renewed annually. For current status contact:

SOLAR RATING & CERTIFICATION CORPORATION

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