

SOLAR AIR COLLECTOR CERTIFICATE



Certificate #: 1006
Date Issued: February 14, 2013
Issued to: Your Solar Home Inc.
Aurora Ontario Canada

This certifies that the Products listed below have been tested by an accredited independent laboratory to a recognized test standard. In addition the manufacturer has documented procedures in place to ensure the solar Products are properly installed on the building in accordance with approved installation drawings.

These Products are entitled to bear SAHWIA's **Solar A Mark** as shown above.

PRODUCTS

SolarSheat 1000G - glazed flat plate closed loop air collector gross area 1.2 m²

SolarSheat 1500G - glazed flat plate closed loop air collector gross area 2.4 m²

SolarSheat 1500GS - same as and installed with model 1500G for larger rooms

Test Lab: Bodycote Materials Testing Canada Inc.

Location: Mississauga Ontario Canada

Test Date(s): May 16, 2007

Report Number(s): 06-08-9148

Tested in accordance with: CSA F378 & SRCC OG100



Solar Air Heating World Industries Association

Certified Collector Performance

Bodycote Sample number: 06-08-9148-4
 Collector Model: 1500 GS
 Test Date(s): 2007-May-04
 Test Fluid: Air
 Mass Flow Rate: 0.048 kg/s
 Wind Speed (average): 3.4 m/s
 Avg. Ambient Air Pressure: 100.8 kPa
 Gross Area: 2.428 m²
 Aperture Area: 2.211 m²

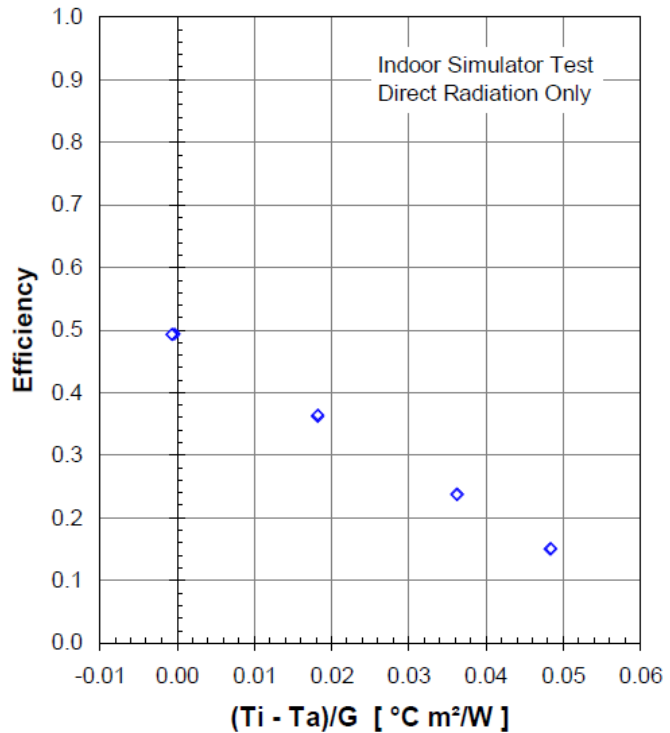
Curve Fit:

1st Order (SI units):

$$\eta = 0.490 - 7.002(T_i - T_a)/G$$

2nd Order (SI units):

$$\eta = 0.489 - 6.825(T_i - T_a)/G - 0.0046(T_i - T_a)^2/G$$



Bodycote Sample number: 06-08-9148-4
 Collector Model: 1500 GS
 Test Date(s): May 7, 2007
 Test Fluid: Air
 Mass Flow Rate: 0.0481 kg/s
 Wind Speed (average): 3.4 m/s
 Gross Area: 2.428 m²
 Aperture Area: 2.211 m²

