

Table 1: Sawtooth Roof Thermal Performance Test Results

Bodycote sample no. 03-08-0506-1

Gross Area = 12.75 ft² 1.185 m²
Net Irradiated Area = 7.08 ft² 0.6574 m²

Test No.	Test Date	Avg. (min.)	Time	G (W/m ²)	AM (°C)	T _{inlet} ¹ (°C)	T _{outlet} (°C)	Airflow (SCFM)	m (kg/s)	Efficiency ² (%)	Airflow ³ (cfm/ft ²)
1	2003-Sep-02	5	18:15	871	22.8	28.4	44.4	12.62	0.0071	20.6	1.0
	2003-Sep-02	5	18:20	871	22.7	28.4	44.4	12.62	0.0071	20.6	1.0
	2003-Sep-02	5	18:25	871	22.7	28.4	44.5	12.62	0.0071	20.6	1.0
	2003-Sep-02	5	18:30	871	22.7	28.5	44.5	12.62	0.0071	20.5	1.0
2	2003-Sep-03	5	13:17	877	21.3	27.5	42.0	25.31	0.0143	37.0	2.0
	2003-Sep-03	5	13:22	877	21.3	27.6	42.0	25.31	0.0143	37.0	2.0
	2003-Sep-03	5	13:27	877	21.4	27.6	42.0	25.31	0.0143	36.9	2.0
	2003-Sep-03	5	13:32	877	21.4	27.6	42.0	25.31	0.0143	36.9	2.0
3	2003-Sep-04	5	11:11	877	5.7	15.0	28.7	25.30	0.0143	34.6	2.0
	2003-Sep-04	5	11:16	877	5.7	15.0	28.7	25.30	0.0143	34.6	2.0
	2003-Sep-04	5	11:21	877	5.7	15.0	28.7	25.30	0.0143	34.6	2.0
	2003-Sep-04	5	11:26	877	5.7	15.0	28.7	25.30	0.0143	34.4	2.0
4	2003-Sep-04	5	14:30	880	5.6	17.4	32.3	12.67	0.0072	18.8	1.0
	2003-Sep-04	5	14:35	880	5.6	17.4	32.3	12.67	0.0072	18.8	1.0
	2003-Sep-04	5	14:40	880	5.6	17.4	32.3	12.67	0.0072	18.8	1.0
	2003-Sep-04	5	14:45	880	5.7	17.4	32.4	12.67	0.0072	18.8	1.0
5	2003-Sep-04	5	15:56	870	5.6	18.1	33.4	7.59	0.0043	11.7	0.6
	2003-Sep-04	5	16:01	870	5.6	18.1	33.4	7.59	0.0043	11.7	0.6
	2003-Sep-04	5	16:06	870	5.6	18.2	33.5	7.59	0.0043	11.7	0.6
	2003-Sep-04	5	16:11	870	5.6	18.2	33.5	7.59	0.0043	11.7	0.6
6	2003-Sep-05	5	11:36	867	20.8	29.4	46.0	7.57	0.0043	12.8	0.6
	2003-Sep-05	5	11:41	867	20.8	29.4	46.1	7.57	0.0043	12.9	0.6
	2003-Sep-05	5	11:46	867	20.8	29.5	46.1	7.57	0.0043	12.8	0.6
	2003-Sep-05	5	11:51	867	20.8	29.5	46.0	7.57	0.0043	12.8	0.6

NOTES: ¹ Air temperature measured at 65" height.
² Efficiency based on irradiated area of collector.
³ cfm/ft² based on gross area of collector.

Time:	Eastern standard time	T _{inlet} :	Inlet fluid temperature (°C)
Avg.:	Data integration period (minutes)	T _{outlet} :	Inlet fluid temperature (°C)
G:	Total insolation on plane of collector (W/m ²)	Airflow:	Fluid flow rate (SCFM)
AM:	Ambient air temperature (°C)	m:	Mass flow rate (kg/s)
Efficiency:	Collector efficiency		