



Application for Solar Collector Testing and/or Certification

Version 20120210

Collector Information	Manufacturer:		Collector Model Number:	
	Street Address:		Telephone Number:	
	City:	State/Province:	Country:	Postal Code:

Drawings	<p>Please check that the required drawings show sufficient detail to accurately represent:</p> <p><input type="checkbox"/> Aperture cover plate dimensions and mounting detail.</p> <p><input type="checkbox"/> Absorber plate dimensions including thickness, location and spacing of fluid flow paths, cross-section dimensions and shape of flow channels, tube wall thickness, plate-to-heat transfer provision, and flow tube to header connection.</p> <p><input type="checkbox"/> Collector enclosure dimensions, provisions for attaching absorber and cover plate, size and location of holes.</p> <p><input type="checkbox"/> Collector assembly detail specifying fasteners and other attachment methods and indicating overall dimensions.</p> <p><input type="checkbox"/> Insulation placement and thickness.</p>
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Materials and Specifications	<p>This section shall include all component materials information. Upon request, properties relating to thermal, flame spread, electrical, or optical characteristics, as specified by the supplier, shall be furnished.</p>	
	<p>Overall Dimensions:</p> <p>Length: _____ Width: _____</p> <p>Depth: _____</p>	<p>Absorber:</p> <p>Type (i.e. sheet, fins, etc): _____</p> <p>Material(s): _____</p> <p>Number of Flow Tubes: _____</p> <p>Flow Pattern: _____</p>
	<p>Gross Front Dimensions:</p> <p>Length: _____ Width: _____</p>	<p>Absorber Coating:</p> <p>Generic name: _____</p> <p>Material: _____</p> <p>Method of Application: _____</p> <p>Substrate: _____</p> <p>Absorptivity: _____</p> <p>Emissivity: _____</p>
	<p>Transparent Frontal Dimensions:</p> <p>Length: _____ Width: _____</p>	<p>Insulation (Back and Sides):</p> <p>Material(s): _____</p> <p>Dimensions: _____</p> <p>K-Factor: _____</p>
	<p>Glazing:</p> <p>Number of Cover Plates: _____</p> <p>Material(s): _____</p> <p>Thickness(es): _____</p> <p>Transmittance(s): _____</p> <p>Interglazing Space: _____</p>	<p>Collector Volumetric Fluid Capacity:</p>
	<p>Reflectors or Lenses:</p> <p>Materials: _____</p> <p>Dimensions: _____</p> <p>Mounting Frame: _____</p>	<p>Pressure Rating:</p> <p><input type="radio"/> Street Pressure Collector</p> <p style="padding-left: 40px;">Operating Pressure: 80 PSIG</p> <p style="padding-left: 40px;">Test Pressure: 160 PSIG</p> <p><input type="radio"/> Low Pressure Collector</p> <p style="padding-left: 40px;">Test Pressure (PSIG): _____</p> <p style="padding-left: 40px;">(Operating Pressure will be listed as test pressure divided by 1.5)</p> <p><input type="radio"/> Other (specify): _____</p> <p style="padding-left: 40px;">Operating Pressure (PSIG): _____</p> <p style="padding-left: 40px;">Test Pressure (PSIG): _____</p>
	<p>Collector Enclosure Material(s):</p>	
	<p>Thermal and Mechanical Bonds:</p>	
	<p>Caulking, Sealant, Gasket Material(s):</p>	
	<p>Heat Transfer Fluid:</p> <p>Material: _____</p> <p style="padding-left: 20px;">Density: _____</p> <p style="padding-left: 20px;">Specific Heat: _____</p> <p style="padding-left: 20px;">Toxicity: _____</p> <p><small>(if other than water)</small></p>	
	<p>Maximum Fluid Flow Rate:</p>	
	<p>Normal Operating Temperature Range:</p>	



Additional Documentation

Please remember the following requirements when submitting an application:

- A collector test report sent directly from the test lab to FSEC
- Collector drawings (as detailed above)
- Product warranty
- Installation, operation, and maintenance considerations
- Signed Labeling Agreement
(See: http://www.fsec.ucf.edu/en/certification-testing/STapplication/Collector_Certification_App.htm)

Completed application and all attachments must be submitted in PDF format to:
thermal@fsec.ucf.edu