



SOLAR RATING AND CERTIFICATION CORPORATION

400 High Point Drive, Suite 400 • Cocoa, FL 32926 • (321)213-6037 • Fax: (321)821-0910

APPLICATION FOR SOLAR CONCENTRATING COLLECTOR CERTIFICATION In accordance with Standard 600

NOTE: SEPARATE APPLICATIONS MUST BE SUBMITTED FOR EACH COLLECTOR MODEL

EMAIL COMPLETED FORM TO: apply@solar-rating.org

NAME OF COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE NUMBER: () _____ CONTACT PERSON: _____

WEB SITE: _____

FAX NUMBER: () _____

E-MAIL: _____

TOLL FREE NUMBER: () _____

COLLECTOR BRAND/TRADE NAME: _____

COLLECTOR MODEL NUMBER: _____

"The information submitted with this application has been reviewed by me and is true and correct to the best of my knowledge and belief. I hereby agree that no representation will be made that the above solar collector has been tested in conformance with SRCC Standard-100 unless and until written authorization has been received from SRCC."

NAME (printed): _____

SIGNATURE: _____

TITLE: _____

DATE: _____

EQUIPMENT TYPE:

- Stationary Concentrating Collector
- Tracking Concentrating Collector
- Tracking Flat Plate
- Central Receiver
- Other (Please specify): _____

ASSEMBLY:

- Complete Assembly – collector is assembled at the factory
- Combined Assembly – final assembly takes place at end-use location.
- Distributed Assembly – collector subcomponents are not physically connected to each other.

CONTROL:

Control Type

- Active
- Passive
- None

High Temperature Protection

- Active
- Passive
- None

Internal Thermal Shock Protection

- Active
- Passive
- None

Tracking

- 1 Axis Altitude
- 1 Axis Azimuth
- 2 Axis

Power Type

- Electric
- Other _____

Positioning Actuation Type: _____

Power Source (voltage & frequency): _____

Backup Power: _____

REFLECTOR:

Reflector Geometry

- Flat
- Parabolic Trough
- Parabolic

Reflector Material

- Glass
- Plastic
- Other: _____

Collector Documentation Form

Documentation must be submitted by the requesting organization for each collector to be certified. This information will provide a permanent record of the configuration, dimensions, and other specifications, will identify materials used in the collector, and will aid in engineering evaluation.

1. Manufacturer Identification

Manufacturer, Address and Telephone:

Brand name/series:

Collector Model Number:

2. Drawings

Drawings shall be attached and submitted showing sufficient detail to accurately represent:

- a. Aperture cover plate dimensions and mounting detail.
- b. 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.
- c. Collector enclosure dimensions, provisions for attaching absorber and cover plate, size and location of holes
- d. Reflector shape and dimensions. Include primary and secondary reflectors and attached transparent housings. Reflector placement / location.
- e. Collector assembly detail specifying fasteners and other attachment methods and indicating overall dimensions
- f. Insulation placement and thickness.

3. Materials and Specifications

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.

Overall Dimensions:

Length

Width

Depth

Assembly Footprint Area

Transparent Frontal Dimensions:

Length

Width

Area

Glazing:

Geometry (flat, cylindrical, Fresnel)

Number of Cover Plates

Material(s)

Thickness(es)

Transmittance(s)

Interglazing Space

Air Space (Glazing to Absorber)

Absorber:

Geometry (Flat / 3D)

Material(s)

Length

Width

Surface Area

Plate thickness

Support Type

Heat Transfer Configuration
(Factory Sealed / Shared Loop)

Number of Flow Tubes

Flow Pattern

Tube O.D.

Header O.D.

Absorber Coating:

Generic name

Material

Method of application

Substrate

Absorptivity

Hemispherical emittance

Reflectors or Lenses:

Geometry (flat, parabolic trough, etc.)

Material(s)

Collector Enclosure:
Side Frame Materials

Backing Material

Trim, retainers, mounting brackets

Housing:

Heat Loss Management
(Evacuation / Insulation / None)

Material(s)

Dimensions

Thermal Resistance

Caulking, Sealant, Gaskets:
Materials

Thermal and Mechanical Bonds:

Heat Transfer Fluid:

Material

If other than water:

Density

Specific Heat

Toxicity

Fluid Flow Range:
Maximum

Recommended operational flow rate

Collector Weight:

Collector Volumetric Fluid Capacity:

Normal Operating Temperature Range:

Pressure Rating:

Operating Pressure

Test Pressure

Operating Wind Speed Limit (ms)

Corrosion Inducing Elements
(Salt Spray, ect.)

Special Features: