ICC-SRCC™ LISTING

ICC-SRCC Solar Thermal Listing Program

Listing Number: SRCC-16006
Effective Date: October 01, 2020
This listing is subject to re-examination in one year.

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A Program of the ICC Evaluation Service (ICC-ES) – www.icc-es.org

CSI:

DIVISION: 22 00 00 – PLUMBING
Section: 22 50 00 - POOL PLUMBING SYSTEMS

DIVISION: 23 00 00 – HEATING
Section: 23 56 13 – HEATING SOLAR COLLECTORS

Product certification program:

The ICC-SRCC Solar Thermal Standard Listing Program is conducted in accordance with the latest version of the *ICC-SRCC Solar Thermal Listing Program Guidelines*. The program includes evaluation of the manufacturer's quality assurance systems to assess continued compliance with applicable codes and standards.

Products: Solar Thermal Collectors

Listee:

FAFCO, Inc
435 Otterson Drive
Chico, CA 95928 U.S.A.

www.fafco.com
(800) 994-7652

Compliance with the following codes and standards:

- 2012 Uniform Solar Energy Code® (USEC)*
- 2015 Uniform Plumbing Code® (UPC)*
- 2015 Uniform Swimming Pool and Hot Tub Code® (USPHTC)*
- 2018 International Building Code® (IBC)**
- 2018 International Swimming Pool and Spa Code® (ISPSC)**
- 2018 International Energy Conservation Code® (IECC)**
- 2015 International Green Construction Code® (IgCC)**
- 2019 California Building Code (CBC)
- ICC 901/SRCC 100-2015, Solar Thermal Collector Standard
- NSF 50-2014, Equipment for Swimming Pools Spas and Hot Tubs***

**Uniform Plumbing Code, Uniform Solar Energy Code and Uniform Swimming Pool and Hot Tub Code are copyrighted publications and trademarks of the International Association of Plumbing and Mechanical Officials (IAPMO)*
***International Building Code, International Swimming Pool and Spa Code, International Energy Conservation Code and International Green Construction Code are copyrighted publications and trademarks of the International Code Council (ICC))*
**** NSF 50 is a copyrighted publication of NSF International.*

Models:

The solar thermal products listed below have been evaluated by the Solar Rating & Certification Corporation (ICC-SRCC™), an ISO/IEC 17065 accredited and EPA recognized Certification Body, in accordance with the *ICC-SRCC Solar Thermal Listing Program Operating Guidelines*, and has been listed by the ICC-SRCC to the codes and standards above. This award of listing is subject to all terms and conditions of the *ICC-SRCC Solar Thermal Listing Program Agreement* and the documents incorporated therein by reference. Where solar collectors are listed, all sizes of the collector model are listed.

Solar Thermal Collectors

COLLECTOR TYPE	BRAND NAME	SIZES	ICC-SRCC OG-100 CERTIFICATION*
Unglazed Flat Plate	500/200 Series	2x8, 2x12	2007030A
Unglazed Flat Plate	Sungrabber	2x10, 2x12, 2x20	2008007A
Unglazed Flat Plate	SunSaver	2x8, 2x10, 2x12, 4x6, 4x8, 4x10, 4x12, 4x20	10001954
Unglazed Flat Plate	SunSaver ST	2x8, 2x10, 2x12, 4x6, 4x8, 4x10, 4x12	10001773
Unglazed Flat Plate/PVT	Cool PV	09550, 09741, 09749, 09809, 09857	10001993
Unglazed Flat Plate/PVT	Cool PV	09882, 09883, 09907, 09942, 09960	10002084
Unglazed Flat Plate	SunGrabber PLUS	4x8, 4x10, 4x12	10002058

** Certifications to the ICC-SRCC OG-100 program are available on the ICC-SRCC website at www.solar-rating.org*

Installation:

Solar thermal collectors must be installed in accordance with the manufacturer's published installation instruction, the applicable code(s) and this listing. Where differences exist, the instructions in this listing must govern.

Where the product requires periodic examination, adjustment, service and or maintenance it must be easily and safely in accordance with the codes in force at the installation site.

Collectors and supports shall be installed in such a manner that water flowing off the collector will not damage the building or cause premature erosion of the roof. Collectors shall be installed in such a manner as to minimize the accumulation of debris. Ground-mounted collectors shall be at least 6" above ground level.

Structural supports shall be selected and installed in such a manner that thermal expansion of the collector and piping will not cause damage to the collector, structural frame or building. Neither wind loading (including uplift) nor the additional weight of filled collectors shall exceed the live or dead load ratings of the building, roof, roof anchorage, foundation or soil. Collector supports shall not impose undue stresses on the collectors. The design load shall be as specified by the codes in force at the installation site and shall include an

additional load due to snow accumulation for applicable locations.

Conditions of Listing:

1. Devices and components shall be installed and used in accordance with the manufacturer's published installation instructions and the applicable code(s) and standard(s).
2. Systems shall be sized in accordance with the demand, manufacturer's requirement, and local codes.
3. System components requiring access for maintenance and inspection shall be installed to provide required access in accordance with manufacturer's instructions and local codes.
4. Solar thermal collectors shall be installed in accordance with the requirements of ISPSC Section 316, Chapter 7 of the USPHTC, Section 1510 and 2606.12 of the IBC (and Section 3139B.1 and 3112.2 of the CBC in CA), IgCC Section 607.3 and Chapter 7 of the USEC.
5. Where used in solar pool heating systems, the pipe and fittings used in conjunction with this collector are recognized for use in pool and spa applications.
6. Solar thermal collectors shall not be installed below flood elevation level.
7. Solar thermal collectors shall only be used with water per manufacturer's requirements.
8. Each installation must be pressure-tested for leaks in the presence of the code official or code official's designated representative.
9. When installation is on fire-resistance-rated roof deck or slab, evidence of compliance with IBC Section 712 for any penetrations must be provided to the code official.
10. Devices and components shall not reduce or increase humidity, temperature or thermal radiation beyond acceptable levels or interfere with required headroom or air circulation space.
11. CoolPV photovoltaic-thermal collectors shall be utilized with photovoltaic modules that are listed and labeled to UL 1703, and shall be installed behind the PV module in accordance with manufacturer's instructions and conditions of OG-100 certification.
12. CoolPV photovoltaic-thermal collector's roof structures shall comply with the requirements of CBC in CA, Section 1617.13.5
13. CoolPV photovoltaic-thermal collector ballasted system shall comply with the requirements of CBC in CA , Section 1613A.3
14. CoolPV photovoltaic-thermal collectors shall indicated the dead load of rooftop-mounted collectors including rack support systems on the construction documents to comply with the requirements of CBC in CA, Section 1603.1.8.1
15. CoolPV thermal collectors shall be designed in accordance with wind load requirements of CBC in CA, Section 1609.
16. Solar thermal components shall use approved mounting hardware in compliance with the manufacturer's installation instructions and the requirements set forth by the Authority Having Jurisdiction.
17. Devices and components are manufactured by FAFCO, Inc. under a quality control program with surveillance inspection every other year conducted in accordance with the requirements of ICC-SRCC.
18. Flashing shall be installed in accordance with the requirements of CBC in CA, Section 1503.2
19. Roof structures that provide support for photovoltaic panel systems shall be designed in accordance with Section 1607.13.5.2 of the CBC in CA, as applicable.

Marking:

Models listed above were evaluated to the codes and standards listed in accordance with the *ICC-SRCC Solar Thermal Listing Program Guidelines* and are eligible to display the following mark as governed by the *ICC-SRCC Solar Thermal Listing Program Agreement*. Each device or component shall also be permanently marked with manufacturer's name or trademark, model name and/or number, recommended working fluids, maximum working temperature and pressure, and recommended flow rate(s).

Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by the Solar Rating and Certification Corporation, express or implied as to any finding or other matter in this listing, or as to any product covered by the listing. This document must be reproduced in its entirety.