



SOLAR RATING
& CERTIFICATION
CORPORATION

ICC-SRCC™ LISTING

ICC-SRCC Solar Thermal Listing Program

Listing Number: SRCC-19005

Effective Date: November 4, 2019

This listing is subject to re-examination in one year.

www.solar-rating.org

(888) 422-7233

ICC-SRCC

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

CSI:

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:

Alternate Energy Technologies, LLC | AET

1345 Energy Cove Court

Green Cove Springs, FL 32043

www.aetsolar.com

(904) 297-9369

Compliance with the following codes, standards and criteria:

- ❖ 2015 Uniform Solar Energy Code® (USEC)*
- ❖ 2018 Uniform Plumbing Code® (UPC)*
- ❖ 2018 International Plumbing Code® (IPC)
- ❖ ICC 901/SRCC 100-2015, Solar Thermal Collector Standard

* *Uniform Plumbing Code and Uniform Solar Energy Code are copyrighted publications and trademarks of the International Association of Plumbing and Mechanical Officials (IAPMO).*



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.

MODEL NUMBER	BRAND NAME	ICC-SRCC OG-100 CERTIFICATION*
AE-40	Alternate Energy	10001820
AE-32	Alternate Energy	10001858
MSC-21	MorningStar	10001934
MSC-24	Morningstar	10001935
MSC-26	Morning Star	10001936
MSC-28	Morning Star	10001937
MSC-32	Morning Star	10001938
MSC-40	Morning Star	10001939
AE-21	Alternate Energy	10001940
AE-18	Alternate Energy	10001941
AE-24	Alternate Energy	10001943
MS-21	MorningStar	10001956
MS-24	MorningStar	10001957
MS-26	MorningStar	10001958
MS-28	MorningStar	10001959
MS-32	MorningStar	10001960
MS-40	MorningStar	10001961
MSC-20	Morning Star	10002012
AE-26	Alternate Energy	2011056A

* Certifications to the ICC-SRCC OG-100 program may be obtained 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 support 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. 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. Solar thermal collectors shall be installed in accordance with the requirements of Chapter 7 of the USEHC.
3. Solar thermal collectors shall not be installed below flood elevation level.
4. Relief valves shall discharge to an approved receptor for disposal in accordance with local codes and requirements.
5. Each installation must be pressure-tested for leaks in the presence of the code official or code official's designated representative.
6. Piping should be sloped toward drain ports with a drainage slope of no less than 2 cm of vertical drop for each meter of horizontal length (1/4 inch per foot). Underground piping shall be installed to withstand surface loads. The trenches and backfill shall be free of sharp objects in contact with the pipe.
7. Field-applied pipe and tank insulation shall comply with local code requirements for thermal insulation value, flame spread, smoke development and finishing.
8. Collectors shall be compatible with contacting fluids. Components and devices contacting potable water shall comply with NSF 61 and Federal Safe Drinking Water Act requirements for lead content.
9. Collectors are manufactured by Alternate Energy Technologies, LLC. in Green Cove Springs, FL under a quality control program with surveillance inspection every other year conducted in accordance with the requirements of ICC-SRCC.

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 collector 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).

Any operation, maintenance and installation instruction manuals from the manufacturer shall be supplied with the collector. Supplier's contact information shall be included with these documents.

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.