

GEW48-14

603.3.7.2, Chapter 12

Proponent: Jim Huggins, Solar Rating & Certification Corp., representing Solar Rating & Certification Corp.

Revise as follows:

603.3.7.2 Solar thermal. Equipment and systems providing heat to fluids or gases through the capture of solar energy shall be capable of being metered so that the peak thermal energy (Btu/h) provided to the building and its systems or to off-site entities can be determined at 15- minute intervals and the amount of heat captured (Btu) for delivery to the building and its systems can be determined intervals of 1 hour or less.

Exception: Systems with a rated output of less than 100 kBtu/hr shall not be required to have the capacity to be metered. The rated output shall be determined using listed and labeled solar collectors that have been tested in accordance with SRCC 100.

Add new standard as follows:

SRCC

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SRCC 100-2013-11 Minimum Standards for Solar Thermal Collectors

Reason: This section provides an exception to the requirement to meter solar thermal systems, but does not explain how to calculate the rated output of the system. This proposal adds a requirement to comply with the nationally recognized standard for solar collectors. This requirement is in the IRC, but not in the IMC or the IECC, so it is needed here to cover non-residential systems.

Compliance with the standard will provide the information needed by the design professional to calculate the rated output of the system.

Cost Impact: Will not increase the cost of construction. Certification of solar thermal collectors is already required by incentive programs, utilities, and many states so most solar thermal collectors are already certified and the efficiency equations are published. Rather than increasing the cost of construction, this modification should lower it by make it easier for the design professional to determine compliance with the 100kBtu/hr requirement.

Analysis: A review of the standard proposed for inclusion in the code, SRCC 100-2013--11, with regard to the ICC criteria for referenced standards (Section 3.6 of CP#28) will be posted on the ICC website on or before April 1, 2014.

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