

GEW139-14

610.4, Chapter 12

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

Revise as follows:

610.4 Solar water heating equipment. Not less than 10 percent of the building's annual estimated hot water energy usage shall be supplied by onsite solar water heating equipment.

The solar water heating equipment shall comply with SRCC 300. The annual estimated output of the solar water heating equipment shall be determined by an approved certification body or by using an approved, publicly available calculation program using solar collector performance information published by an approved certification body.

Add new standard as follows:

SRCC

Solar Rating & Certification Corp.,
400 High Point Drive, Suite 400,
Cocoa, FL 32926

SRCC 300-2013-09 Minimum Standards for Solar Water Heating Systems

Reason: This section requires that 10% of the building's hot water energy usage be supplied by a solar system, but does not explain how to determine the energy contribution of the solar equipment. This proposal adds a requirement to comply with the nationally recognized standard for solar thermal systems. This requirement is in the IRC, but not in the IMC or the IECC, so it is needed here to cover non-residential systems.

Certification by an approved Certification Body will provide to the design professional the information needed determine the annual estimated contribution of the solar thermal system to the building's hot water energy usage. The alternate method allows the design professional to determine the solar system's contribution using an approved calculation method.

Cost Impact: Will not increase the cost of construction. Certification of solar thermal systems is already required by incentive programs, utilities, and many states so most solar thermal systems are already certified. For those cases where the system is not certified, the alternate method provides the design professional a means to calculate the solar system output. 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 10% requirement.

Analysis: A review of the standard proposed for inclusion in the code, SRCC 300-2013-09 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.

GEW139-14: 610.4-HUGGINS629