

Interpretation: Water Heater Inlet Temperature

Designation: 301-2014-005

Approved: June 22, 2015 by SDC 300, Testing, Calculation and Labeling for Home Energy Ratings

- Effective Date: July 22, 2015
- **Proponent:** Philip Fairey, Florida Solar Energy Center

Applies to:

ANSI/RESNET 301-2014, Addendum A, Section 4.2.2.5.2.11

Interpretation:

The value(s) for the water heater inlet temperature, $WH_{in}T$, used to determine $adjF_{mix}$ for equation 4.2-11 shall be the value(s) for water heater inlet temperature used to calculate standard hot water energy consumption, $stdEC_{HW}$, for equation 4.2-16

Rationale:

While it is clear from the Addendum that the temperature of the cold water entering the water heater is used in the determination of the Rated Home's fixture hot water mix fraction $(adjF_{mix})$, it is not explicitly stated that the hot water inlet temperature $(HW_{in}T)$ that is used to determine $adjF_{mix}$ should also be used to determine the standard energy consumption $(stdEC_{HW})$ for the hot water system. This interpretation is necessary to make the use of $HW_{in}T$ explicitly clear in the calculation of standard hot water energy consumption values.