

Code Section	Proposed Amendment
<p>R405.2 Simulated building performance compliance. (IRC N1105.2)</p>	<p>Amend this section as follows:</p> <p><b>R405.2 Simulated building performance compliance.</b> Compliance based on <i>simulated building performance</i> requires that a <i>building</i> comply with the following:</p> <ol style="list-style-type: none"> <li>1. The requirements of the sections indicated within Table R405.2.</li> <li>2. The proposed total <i>building thermal envelope</i> thermal conductance (TC) shall be less than or equal to the required total <i>building thermal envelope</i> TC using the prescriptive U-factors and F-factors from Table R402.1.2 multiplied by 1.08 in Climate Zones 0, 1, and 2 and 1.15 in Climate Zones 3 through 8, in accordance with Equation 4-2 and Section R402.1.5. The area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through 3 shall be 0.30.</li> </ol> <p><b>Equation 4-2</b> For Climate Zones 0-2: <math>TC_{\text{Proposed Design}} \leq 1.08 \times TC_{\text{Prescriptive Reference Design}}</math> For Climate Zones 3-8: <math>TC_{\text{Proposed Design}} \leq 1.15 \times TC_{\text{Prescriptive Reference Design}}</math></p> <p><del>3. For each dwelling unit with one or more fuel-burning appliances for space heating, water heating, or both, the annual energy cost of the dwelling unit shall be less than or equal to 80 percent of the annual energy cost of the standard reference design. For all other dwelling units, the annual energy cost of the proposed design shall be less than or equal to 85 percent of the annual energy cost of the standard reference design. For each dwelling unit with greater than 5,000 square feet (465m<sup>2</sup>) of living space located above grade plane, the annual energy cost of the dwelling unit shall be reduced by an additional 5 percent of the annual energy cost of the standard reference design. <u>The annual energy cost shall be less than or equal to the annual cost of the standard reference design.</u> Energy prices shall be taken from an approved source, such as the US Energy Information Administration's State Energy Data System prices and expenditures reports. Code officials shall be permitted to require time-of-use pricing in energy cost calculations.</del></p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. The energy use based on source energy expressed in Btu or Btu per square foot of conditioned floor area shall be permitted to be substituted for the energy cost. The source energy multiplier for electricity shall be 2.51. The source energy multipliers shall be 1.09 for natural gas, 1.15 for propane, 1.19 for fuel oil, and 1.30 for imported liquified natural gas.</li> <li>2. The energy use based on site energy expressed in Btu or Btu per square foot of conditioned floor area shall be permitted to be substituted for the energy cost.</li> </ol>