



STATE OF WASHINGTON
STATE BUILDING CODE COUNCIL

Washington State Energy Code Development
Standard Energy Code Proposal Form

Code being amended: [X] Commercial Provisions [] Residential Provisions

Code Section # Tables C402.1.3 and C402.1.4

Brief Description:

Expands wall insulation R-value compliance alternatives, consistent with 2018 IECC requirements; maintains consistency with WSEC U-factors.

Proposed code change text: (Copy the existing text from the Integrated Draft, linked above, and then use underline for new text and strikethrough for text to be deleted.)

TABLE C402.1.3
OPAQUE THERMAL ENVELOPE INSULATION COMPONENT
MINIMUM REQUIREMENTS, R-VALUE METHODa, g, h

Table with 3 columns: CLIMATE ZONE, 5 AND MARINE 4, and sub-columns All Other and Group R. Rows include Mass, Metal building, Steel framed, and Wood framed and other.

[No changes to TABLE C402.1.4]

Purpose of code change:

After receiving Energy Code TAG feedback on the original RECA proposal (Env018-2018) and collaborating with interested stakeholders, we revised the wall insulation R-values to be consistent with the current U-factor table in the 2015 Washington State Energy Code. This proposal does not change the existing R-values; rather, it simply adds two additional compliance options to the R-value table: (1) R-13+13ci for metal buildings, which is consistent with the 2018 IECC and equivalent to R-19ci; and (2) R-15+5ci for wood framed walls, which

provides a continuous insulation option that is equivalent to the current requirement. It also provides a “standard” framing option which may be important for many low-rise wood-frame commercial buildings that cannot structurally satisfy the intermediate framing condition due to seismic bracing, anchorage, and other design requirements. Because these equivalent values are additional options, and are drawn directly from the 2015 WSEC Appendix A, we do not think any additional cost-effectiveness analysis is necessary.

We continue to support improvements to the WSEC that will meet or exceed the 2018 IECC, and to maintain consistency with the model codes wherever possible. We would also support improvements to the U-factor table (Table C402.1.4). However, based on TAG feedback on this proposal, we decided those changes would be more appropriately addressed in another proposal.

Your amendment must meet one of the following criteria. Select at least one:

- | | |
|--|---|
| <input type="checkbox"/> Addresses a critical life/safety need. | <input type="checkbox"/> Consistency with state or federal regulations. |
| <input checked="" type="checkbox"/> Addresses a specific state policy or statute.
(Note that energy conservation is a state policy) | <input type="checkbox"/> Addresses a unique character of the state. |
| | <input checked="" type="checkbox"/> Corrects errors and omissions. |

Check the building types that would be impacted by your code change:

- | | | |
|--|--|--|
| <input type="checkbox"/> Single family/duplex/townhome | <input checked="" type="checkbox"/> Multi-family 4 + stories | <input type="checkbox"/> Institutional |
| <input type="checkbox"/> Multi-family 1 – 3 stories | <input checked="" type="checkbox"/> Commercial / Retail | <input type="checkbox"/> Industrial |

Your name	Eric Lacey	Email address	eric@reca-codes.com
Your organization	Responsible Energy Codes Alliance	Phone number	202-339-6366

Other contact name [Click here to enter text.](#)

Instructions: Send this form as an email attachment, along with any other documentation available, to: sbcc@des.wa.gov. For further information, call the State Building Code Council at 360-407-9278.

Economic Impact Data Sheet

Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants and businesses.

Because this proposal simply adds two additional compliance options that are drawn directly from 2015 WSEC Appendix A, we do not believe a cost-benefit analysis is necessary.

Provide your best estimate of the construction cost (or cost savings) of your code change proposal? (See OFM Life Cycle Cost [Analysis tool](#) and [Instructions](#); use these [Inputs](#). **Webinars on the tool can be found [Here](#) and [Here](#)**)

[Click here to enter text.](#)/square foot (For residential projects, also provide [Click here to enter text.](#)/ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

N/A

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

[Click here to enter text.](#)KWH/ square foot (or) [Click here to enter text.](#)KBTU/ square foot

(For residential projects, also provide [Click here to enter text.](#)KWH/KBTU / dwelling unit)

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application:

We do not expect any change in the enforcement time related to this proposal.

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.