

Proposal Summary



2022 California Energy Code (Title 24, Part 6)

Multifamily High Performance Envelope – Reduced Thermal Bridging

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Introduction

The document summarizes proposed revisions to the California Energy Code (Title 24, Part 6) that will be discussed during a utility-sponsored stakeholder meeting on August 22, 2019. The Statewide Utility Codes and Standards Enhancement (CASE) Team is seeking input and feedback. To provide your comments, email info@title24stakeholders.com by September 5, 2019.

Measure Description

Reduced thermal bridging - Mitigate heat transfer through major thermal bridges in a building: wall-roof intersection, wall-floor intersection, wall-fenestration intersection, and wall-exterior projections. The Statewide CASE Team will leverage nonresidential CASE topic on thermal bridging potentially based on ASHRAE 90.1 proposal (addendum AV to 90.1-2016).

The Statewide CASE Team anticipates that the new code will apply one of the following three code compliance implementation methods for this new measure.

- Adjust assembly u-factor calculation methods to include thermal-bridging elements.
- Prescribe acceptable details of joints between assemblies or acceptable offsetting insulation for high levels of thermal bridge heat losses.
- Establish use of UA budgets that include the impact of thermal bridging between assemblies.

Draft Code Language

The California Energy Commission (Energy Commission) plans to create a multifamily chapter for inclusion in 2022 Title 24, Part 6. The multifamily chapter will draw from the appropriate sections of the 2019 residential and nonresidential Standards. The Statewide CASE Team uses the language and section numbering from residential and nonresidential Standards and Reference Appendices to show the proposed changes below. Changes to the 2019 documents are marked with red underlining (new language) and ~~strikethroughs~~ (deletions). Expected sections or tables of the proposed code (but not specific changes at this time) are highlighted in **yellow**. These changes are specific to multifamily buildings and not indicative of changes that apply to residential or nonresidential buildings.

Because the code implementation methodology for this measure is yet to be established, it is not possible to present draft code language at this time. Once determined, new code language will be included in the proposed multifamily chapter defining the measure's compliance methodology and



metrics. Changes to the code will occur in sections regarding envelope efficiency requirements, specifically for wall assemblies.

Standards

No draft language is available at this time

Reference Appendices

No draft language is available at this time. This measure may, depending on the measure's implementation methodology, require adjustments to Reference Appendix JA4, and in particular section JA4.3.1 regarding wall u-factor default calculations to include the impact of thermal bridging elements to certain assembly types.