

# High Performance Walls

## Draft Code Language

Last Updated: February 27, 2017

## 1. INTRODUCTION

The California Statewide Utility Codes and Standards Team actively supports the California Energy Commission in developing revisions to the 2019 California Building Energy Efficiency Standards (Title 24, Part 6). Our joint intent is to achieve significant energy savings through the development of reasonable, responsible, and cost-effective code change proposals for the 2019 Title 24 code change cycle.

The Statewide Utility Team is proposing a code change to reduce the prescriptive U-value requirements for framed walls from 0.051 to 0.043 in climate zones 1 and 11 through 16.

**The Statewide Utility Team is requesting feedback on the draft code language presented in this document.** Input we receive will inform the code change proposal that the Statewide Utility Team will be proposing to the California Energy Commission in April 2017.

To provide feedback, please email us at [info@title24stakeholders.com](mailto:info@title24stakeholders.com) or contact the measure lead:

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For more information about the California Statewide Utility Codes and Standards Team's 2019 Title 24, Part 6 advocacy efforts, and the latest information on this code change proposal please visit: [www.title24stakeholders.com](http://www.title24stakeholders.com).

## 2. DRAFT CODE LANGUAGE

The proposed changes to the Standards, Reference Appendices, and the ACM Reference Manuals are provided below. Changes to the 2016 documents are marked with [underlining](#) (new language) and [strikethroughs](#) (deletions).

### 2.1 Standards

The proposed measure would require updating the walls section of Table 150.1-A Component Package-A as well as the associated language regarding prescriptive wall requirements in Section 150.1.

#### SECTION 150.1 – PERFORMANCE AND PRESCRIPTIVE COMPLIANCE APPROACHES FOR LOW-RISE RESIDENTIAL BUILDINGS

Section 150.1(c)1B:

- B. Walls, ~~including heated basements and crawl spaces,~~ shall be insulated such that the opaque wall has an assembly [U-factor](#) ~~U-value~~ equal to or less than shown in Table 150.1-A, ~~or walls shall be insulated~~

between wood framing with an R-value equal to or greater than shown in TABLE 150.1-A. The U-factor U-value shown are maximum U-factor U-value for the opaque wall assembly. Alternatively, for mass walls above grade and for below grade walls with insulation installed on the interior, the R-values shown are the minimum R-values for insulation installed between wood-framing members; and for mass walls above grade and below grade walls with insulation installed on the exterior insulation, the R-values shown are the minimum R-values for continuous insulation. Wood framed demising walls, such as knee walls and walls between the house and garage, do not need to include continuous insulation if the wall U-factor meets a maximum value of U-0.069 in climate zones 1-5 and 8-16 and U-0.095 in climate zones 6-7.

Table 150.1-A:

**Table 1: Proposed updates to Table 150.1-A Component Package-A**

			Climate Zone																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Building Envelope	Walls	Above Grade	U-0.051	U 0.051	U 0.051	U 0.051	U 0.051	U 0.065	U 0.065	U 0.051	U 0.051	U 0.051	U 0.051	U 0.051	U 0.051	U 0.051	U 0.051	U 0.051	U 0.051
		Framed	U 0.043										U 0.043	U 0.043	U 0.043	U 0.043	U 0.043	U 0.043	U 0.043

## 2.2 Reference Appendices

There are no proposed changes to the Reference Appendices.