

Quality Insulation Installation

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 code change to include Quality Insulation Installation (QII) as a prescriptive measure for all climate zones.

The proposed measure will add a new row in the Building Envelope Insulation section of Table 150.1-A Component Package-A as well as add new language regarding this new prescriptive requirement in Section 150.1.

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 or contact the measure lead whose contact information is provided below:

Bill Dakin
Davis Energy Group
bdakin@davisenergy.com

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.

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

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

Section 150.1(c)1.E:

[All requirements for Quality Insulation Installation \(QII\) shall be met as specified in Reference Appendix RA3.5.](#)

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 Insulation	QII Inspection	Yes															

2.2 Reference Appendices

SECTION RA2.2 – MEASURES THAT REQUIRE FIELD VERIFICATION AND DIAGNOSTIC TESTING

Table RA2-1: *Summary of Measures Requiring Field Verification and Diagnostic Testing*

Building Envelope Measures		
High Quality Insulation Installation (QII)	Compliance Software recognizes standard and improved envelope construction. Compliance credit can be taken for quality installation of insulation. This is a prescriptive measure in all climate zones for new construction and additions ≥ 700 square feet. Field verification is required.	RA3.5

SECTION RA3.5.3 – BATT AND BLANKET INSULATION

[RA3.5.3.3.5 Special Situations – Roof Deck Underside](#)

[Roof deck underside batts filling the cavity space between truss members shall be face stapled or supported with cabling, tension rods, or other support measures that maintain the batt uniformly against the roof deck and minimize compression. Inset stapling of underside batts shall not be used to affix batts to roof deck underside. Batt supports shall be at intervals less than or equal to 16”, and no further than 8” from the end of the batt.](#)

[For batts whose thickness nominally exceeds the depth of the truss top chord member, full-width batts shall be used and supported at the intervals described above. Supports shall minimize compression through the full width of the insulated cavity. Full depth insulation coverage at the bottom of the truss top chord is not required.](#)

SECTION RA3.5.4 – LOOSE FILL INSULATION

[RA3.5.4.3.5 Special Situations – Roof Deck Underside](#)

The proposed code language is still under development.