



PUBLIC CODE CHANGE PROPOSAL FORM FOR PUBLIC PROPOSALS IN THE INTERNATIONAL CODES

2007/2008 CODE DEVELOPMENT CYCLE

CLOSING DATE: All Proposals Must Be Received by August 20, 2007

The 2007/2008 Code Development Hearings are tentatively scheduled for
February 18 – March 2, 2008, location TBD.

- 1) **Name:** Ronald Majette **Date:** August 19, 2007
Jurisdiction/Company: U.S. Department of Energy
Submitted on Behalf of: U.S. Department of Energy
Address: 1000 Independence Avenue, EE-2J, IJ-018
- City:** Washington D.C. **State:** DC **Zip Code:** 20585
Phone: 202-586-7935 **Ext.:** **Fax:** 202-586-4617 **E-mail address:** Ronald.Majette@ee.doe.gov

- 2) **Copyright Release:** In accordance with Council Policy #28 Code Development, all Code Change Proposals, Floor Modifications and Public Comments are required to include a copyright release. A copy of the copyright release form is included at the end of this form. Please follow the directions on the form. This form as well as an alternative release form can also be downloaded from the ICC website at www.iccsafe.org. If you have previously executed the copyright release, please check the box below:

X 2007/2008 Cycle copyright release on file

- 3) Indicate appropriate International Code(s) associated with this Public Proposal – Please use Acronym: IECC and IRC
 If you have also submitted a separate coordination change to another I-Code, please indicate the code: _____
 (See section below for list of names and acronyms for the International Codes).

- 4) **Be sure to format your proposal and include all information as indicated on Page 2 of this form.**

- 5) Proposals should be sent to the following offices via regular mail or email. An e-mail submittal is preferred, including an electronic version, in either Wordperfect or Word. The only formatting that is needed is **BOLDING, STRIKEOUT AND UNDERLINING**. Please do not provide additional formatting such as tabs, columns, etc., as this will be done by ICC. **REMOVE TRACKING CHANGES, AUTOMATIC NUMBERING, OR ANY OTHER ADVANCED FORMATTING TOOLS THAT ARE PROVIDED BY WORD, FROM FILES CONTAINING YOUR CODE CHANGE PROPOSAL THAT YOU SEND TO ICC.**

Please use a separate form for each proposal submitted. Note: All code changes received will receive an acknowledgment.

Please check here if separate graphic file provided.

Graphic materials (Graphs, maps, drawings, charts, photographs, etc.) must be submitted as separate electronic files in .CDR, .IA, .TIF or .JPG format (300 DPI Minimum resolution; 600 DPI or more preferred) even though they may also be embedded in your Word or Wordperfect submittal.

Code

- IBC - International Building Code
- IEBC - International Existing Building Code
- IFC - International Fire Code
- IFGC - International Fuel Gas Code
- IPC - International Plumbing Code
- IPSDC - International Private Sewage Disposal Code
- IPMC - International Property Maintenance Code
- IWUIC - International Wildland-Urban Interface Code
- IZC - International Zoning Code
- ELECT - International Code Council Electrical Code– Administrative Provisions

Send to:

International Code Council
 Chicago District Office
 Attn: Diane Schoonover
 4051 West Flossmoor Road
 Country Club Hills, IL 60478-5795
 Fax: 708/799-0320
codechanges@iccsafe.org

- IECC - International Energy Conservation Code
- ICC PC - ICC Performance Code
- IMC - International Mechanical Code
- IRC - International Residential Code

International Code Council
 Birmingham District Office
 Attn: Annette Sundberg
 900 Montclair Road
 Birmingham, AL 35213-1206
 Fax: 205/592-7001
codechangesbhm@iccsafe.org

CODE CHANGE PROPOSAL

Please provide all of the following items in your code change proposal. Your proposal may be entered on the following form, or you may attach a separate file. However, please read the instructions provided for each part of the code change proposal. The sections identified in parentheses are the applicable sections from CP #28 Code Development. The full procedures can be downloaded from www.iccsafe.org.

Code Sections/Tables/Figures Proposed for Revision (3.3.2): IECC Table 402.1.3 and 404.5.2(1) and IRC Table N1102.1.2

Note: If the proposal is for a new section, indicate (new).

Name/Company/Representing (3.3.1): Ronald Majette / U.S. Department of Energy

Note: You must indicate your name and the full name of who you are representing. Do not use acronyms.

Proposal:

IECC:

Table 402.1.3. Equivalent U-Factors^(a)

Climate Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling U-Factor	Frame Wall U-Factor	Mass Wall U-Factor ^(b)	Floor U-Factor	Basement Wall U-Factor ^(c)	Crawl Space Wall U-Factor ^(c)
1	1.20	0.75	0.035	0.082	0.197	0.064	0.360 <u>0.948</u>	0.477 <u>0.948</u>
2	0.75	0.75	0.035	0.082	0.165	0.064	0.360 <u>0.948</u>	0.477 <u>0.948</u>
3	0.65	0.65	0.035	0.082	0.141	0.047	0.360 <u>0.948</u>	0.136 <u>0.192</u>
4 except Marine	0.40	0.60	0.030	0.082	0.141	0.047	0.059 <u>0.084</u>	0.065 <u>0.084</u>
5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.037	0.059 <u>0.084</u>	0.065 <u>0.084</u>
6	0.35	0.60	0.026	0.060	0.060	0.033	0.059 <u>0.084</u>	0.065 <u>0.084</u>
7 and 8	0.35	0.60	0.026	0.057	0.057	0.033	0.059 <u>0.084</u>	0.065 <u>0.084</u>

(a) Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.

(b) When more than half the insulation is on the interior, the mass wall U-factors shall be 0.17 in zone 1, 0.14 in zone 2, 0.12 in zone 3, 0.10 in zone 4, and the same as the wood frame wall in zones 5 through 8.

(c) Foundation U-factor requirements include wall construction and interior air films but exclude soil conductivity and exterior air films.

**Table 404.5.2(1)
Specifications for the Standard Reference and Proposed Designs.**

Foundations	Type: same as proposed <u>foundation wall area above and below grade: same as proposed</u>	As proposed <u>As proposed</u>
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(remained of Table 404.5.2(1) unchanged)

IRC:

Table N1102.1.2. Equivalent U-Factors^(a)

Climate Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling U-Factor	Frame Wall U-Factor	Mass Wall U-Factor	Floor U-Factor	Basement Wall U-Factor ^(b)	Crawl Space Wall U-Factor ^(b)
1	1.20	0.75	0.035	0.082	0.197	0.064	0.360 <u>0.948</u>	0.477 <u>0.948</u>
2	0.75	0.75	0.035	0.082	0.165	0.064	0.360 <u>0.948</u>	0.477 <u>0.948</u>
3	0.65	0.65	0.035	0.082	0.141	0.047	0.360 <u>0.948</u>	0.136 <u>0.192</u>
4 except Marine	0.40	0.60	0.030	0.082	0.141	0.047	0.059 <u>0.084</u>	0.065 <u>0.084</u>

5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.037	0.059 0.084	0.065 0.084
6	0.35	0.60	0.026	0.060	0.060	0.033	0.059 0.084	0.065 0.084
7 and 8	0.35	0.60	0.026	0.057	0.057	0.033	0.059 0.084	0.065 0.084

- (a) Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.
(b) Foundation U-factor requirements include wall construction and interior air films but exclude soil conductivity and exterior air films.

Supporting Information (3.3.4 & 3.4):

The purpose of this code change is to remove the ground (earth) conductance from the U-factor requirements in the IECC and Chapter 11 of the IRC. The ground is not an inherent characteristic of the building construction and is therefore an unnecessary and confusing element to include code's U-factor requirements. Additionally, the code gives no information about how the ground conductance effect is to be accounted for in the U-factor requirements and it is therefore difficult for code users (including code compliance software developers) to correctly and consistently match their calculations to the code requirements.

The proposed U-factors include only the foundation structure and insulation elements. They are based on the assumption of solid concrete foundation walls with an R-value of 0.375 for an assumed 6 inches of concrete. Where R-13 cavity or R-10 continuous insulation is required, the U-factor proposed here is based on the assumption of a finished framed wall with R-13 cavity insulation.

Referenced Standards (3.4 & 3.6):

Cost Impact (3.3.4.6):

The code change proposal will not increase the cost of construction.