



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

2006/2007 CODE DEVELOPMENT CYCLE

CLOSING DATE: All Proposals Must Be Received by March 24, 2006

The 2006/2007 Code Development Hearings are scheduled for
September 20 to 30, 2006 in Orlando, FL

- 1) **Name:** Ronald Majette **Date:** March 24, 2006
Jurisdiction/Company: United States Department of Energy
Submitted on Behalf of: United States Department of Energy
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- 2) ***Signature:** _____
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Signature for electronic submittal: When submitting proposals electronically, to complete the submittal process, print a copy of the ICC Electronic [Copyright Release](http://www.iccsafe.org) form found at www.iccsafe.org, fill in the requested information, send to ICC. One completed form is required. This must be done for each code change cycle and can be used for code changes and public comments.

- 3) Indicate appropriate International Code(s) associated with this Public Proposal – Please use Acronym: IECC
 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

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	Send to:	<u>Acronym</u>	<u>ICC Code Name</u>
IBC	International Code Council	IBC	International Building Code
ICC EC	Chicago District Office	ICC EC	ICC Electrical Code–Administrative Provisions
IEBC	Attn: Diane Schoonover	IECC	International Energy Conservation Code
IFC	4051 West Flossmoor Road	IEBC	International Existing Building Code
IFGC	Country Club Hills, IL 60478-5795	IFC	International Fire Code
IPC	Fax: 708/799-0320	IFGC	International Fuel Gas Code
IPSDC	codechanges@iccsafe.org	IMC	International Mechanical Code
IPMC		ICC PC	ICC Performance Code
IWUIC		IPC	International Plumbing Code
IZC		IPSDC	International Private Sewage Disposal Code
		IPMC	International Property Maintenance Code
IECC	International Code Council	IRC	International Residential Code
ICC PC	Birmingham District Office	IWUIC	International Wildland-Urban Interface Code
IMC	Attn: Annette Sundberg	IZC	International Zoning Code
IRC	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 404.5.2(1); new Table 404.5.2(3)

Name/Company/Representing (3.3.1): Ronald Majette/United States Department of Energy

Proposal:

Revise Table 404.5.2(1) as follows:

Roofs	Type: composition shingle on wood sheathing Gross area: same as proposed Solar absorptance = 0.75 Emittance = 0.90	As proposed As proposed As proposed As specified in Table 404.5.2(3) or determined by specific test data for the roof surface in accordance with ASTM Standard E-903. If specific roof type is unknown the default value shall be that of standard dark composition shingles (0.92). As proposed
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Add Table 404.5.2(3):

TABLE 404.5.2(3)
DEFAULT SOLAR ABSORPTANCES FOR ROOFING SURFACES

<u>Roof Material</u>	<u>Absorptance</u>	<u>Roof Material</u>	<u>Absorptance</u>
<u>Composition Shingles</u>		<u>Wood Shingles</u>	
<u>Dark</u>	<u>0.92</u>	<u>Dark</u>	<u>0.90</u>
<u>Medium</u>	<u>0.85</u>	<u>Medium</u>	<u>0.80</u>
<u>Light</u>	<u>0.75</u>		
		<u>Concrete/Cement</u>	
<u>Tile/Slate</u>		<u>Dark</u>	<u>0.90</u>
<u>Dark</u>	<u>0.90</u>	<u>Medium</u>	<u>0.75</u>
<u>Medium</u>	<u>0.75</u>	<u>Light</u>	<u>0.60</u>
<u>Terra cotta</u>	<u>0.65</u>	<u>White</u>	<u>0.30</u>
<u>Light</u>	<u>0.60</u>		
<u>White</u>	<u>0.30</u>	<u>Membrane</u>	
		<u>Dark</u>	<u>0.90</u>
<u>Metal</u>		<u>Medium</u>	<u>0.75</u>
<u>Dark</u>	<u>0.90</u>	<u>Light</u>	<u>0.60</u>
<u>Medium</u>	<u>0.75</u>	<u>White</u>	<u>0.30</u>
<u>Galvanized, unfinished</u>	<u>0.70</u>		
<u>Light</u>	<u>0.60</u>	<u>Built-up (gravel surface)</u>	
<u>Galvalum, unfinished</u>	<u>0.35</u>	<u>Dark</u>	<u>0.92</u>
<u>White</u>	<u>0.30</u>	<u>Medium</u>	<u>0.85</u>
		<u>Light</u>	<u>0.75</u>

Supporting Information (3.3.4 & 3.4):

Purpose: To allow compliance credit in the performance path for “cool roofs” (low solar absorptance).

Reason: The current provisions give no guidance on how to estimate or otherwise determine the absorptance of various roofing materials.

Substantiation: The proposed approach is taken directly from a procedure developed by the Residential Energy Services Network for performance calculations related to tax credit qualification: "Procedures for Certifying Residential Energy Efficiency Tax Credits for New Homes," RESNET Publication No. 05-001, November, 2005. See http://www.natresnet.org/standards/tax_credits/procedures.pdf.

Referenced Standards (3.4 & 3.6): N/A

Cost Impact (3.3.4.6): The code change proposal will not increase the cost of construction.