

## 2009 International Energy Conservation Code (IECC) Task Force Proposed Amendments Report

### (2009-IECC-01)

		ACTION: <b>AS</b> AR D F
<b>CODE SECTION:</b>	101.1 Title.	
<b>PROPOSAL TYPE:</b>	Deletion	
<b>PROPOSAL:</b>	Delete Section 101.1 Title in its entirety without substitution.	
<b>PROPOSER:</b>		
<b>NOTES:</b>	DCA Administrative amendment	

### (2009-IECC-02)

		ACTION: AS <b>AR</b> D F
<b>CODE SECTION:</b>	102.1.1 Above code programs.	
<b>PROPOSAL TYPE:</b>	Revision/Addition	
<b>PROPOSAL:</b>	<p><del>102.1.1 Above code programs. The code official or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code. Buildings approved in writing by such an energy efficiency program shall be considered in compliance with this code. The requirements identified as "mandatory" in Chapters 4 and 5 of this code, as applicable, shall be met. A one and two family dwelling receiving a Home Energy Rating by a Certified Home Energy Rater, and receiving a Home Energy Rating System (HERS) index of 100 or less when using REMrate, Energy Gauge or an approved software that demonstrates compliance with the 2009 IECC shall be deemed to comply with this code.</del></p> <p>see: <a href="http://www.resnet.us/">http://www.resnet.us/</a> and <a href="http://www.energystar.gov">www.energystar.gov</a> for information on HERS.</p>	
<b>PROPOSER:</b>	R. A. Edwards	
<b>NOTES:</b>	Changes made during 01.14.10 meeting are double underline and double strikethrough. TF to revisit this amendment during review of Sect. 405. Possibly move to section 405.4.1. <u>03.11.10:</u> Item was referred to Work Group for further study on <u>04.19.10</u> . <u>04.19.10:</u> Work Group recommends disapproval. <u>04.22.10:</u> D	

### (2009-IECC-03)

		ACTION: AS <b>AR</b> D F
<b>CODE SECTION:</b>	103 CONSTRUCTION DOCUMENTS	
<b>PROPOSAL TYPE:</b>	Deletion	
<b>PROPOSAL:</b>	Delete Section 103 CONSTRUCTION DOCUMENTS in its entirety without substitution.	
<b>PROPOSER:</b>		
<b>NOTES:</b>	DCA Administrative amendment	

(2009-IECC-04)

		<b>ACTION:</b> <b>AS</b> AR D F			
<b>CODE SECTION:</b>	<b>104 INSPECTIONS</b>				
<b>PROPOSAL TYPE:</b>	Deletion				
<b>PROPOSAL:</b> Delete Section 104 INSPECTIONS in its entirety without substitution.					
<b>PROPOSONENT:</b>					
<b>NOTES:</b> DCA Administrative amendment					

(2009-IECC-05)

		<b>ACTION:</b> <b>AS</b> AR D F			
<b>CODE SECTION:</b>	<b>107 FEES</b>				
<b>PROPOSAL TYPE:</b>	Deletion				
<b>PROPOSAL:</b> Delete Section 107 FEES in its entirety without substitution.					
<b>PROPOSONENT:</b>					
<b>NOTES:</b> DCA Administrative amendment					

(2009-IECC-06)

		<b>ACTION:</b> <b>AS</b> AR D F			
<b>CODE SECTION:</b>	<b>108 STOP WORK ORDER</b>				
<b>PROPOSAL TYPE:</b>	Deletion				
<b>PROPOSAL:</b> Delete Section 108 STOP WORK ORDER in its entirety without substitution					
<b>PROPOSONENT:</b>					
<b>NOTES:</b> DCA Administrative amendment					

(2009-IECC-07)

		<b>ACTION:</b> <b>AS</b> AR D F			
<b>CODE SECTION:</b>	<b>109 BOARD OF APPEALS</b>				
<b>PROPOSAL TYPE:</b>	Deletion				
<b>PROPOSAL:</b> Delete Section 109 BOARD OF APPEALS in its entirety without substitution.					
<b>PROPOSONENT:</b>					
<b>NOTES:</b> DCA Administrative amendment					

(2009-IECC-08)

		ACTION:	AS	AR	D	F
<b>CODE SECTION:</b>	<b>202 GENERAL DEFINITIONS</b>					
<b>PROPOSAL TYPE:</b>	Delete and Substitute					
<b>PROPOSAL:</b>						
<del><b>CONDITIONED SPACE.</b> An area or room within a building being heated or cooled, containing uninsulated ducts, or with a fixed opening directly into an adjacent <i>conditioned space</i>.</del>						
<b>SPACE.</b> An enclosed space within a building. The classifications of spaces are as follows for the purpose of determining building envelope requirements:						
<b>(a) Conditioned space:</b> a cooled space, heated space, or indirectly conditioned space defined as follows:						
<b>(1) Cooled space:</b> an enclosed space within a building that is cooled by a cooling system whose sensible output capacity exceeds 5 Btu/h-ft <sup>2</sup> of floor area.						
<b>(2) Heated space:</b> an enclosed space within a building that is heated by a heating system whose output capacity relative to the floor area is greater than or equal to 5 Btu/hxft <sup>2</sup> .						
<b>(3) Indirectly conditioned space:</b> an enclosed space within a building that is not a heated space or a cooled space, containing uninsulated ducts, or containing the heating equipment or which is heated or cooled indirectly by being connected to adjacent space(s), provided that air from heated or cooled spaces is transferred (naturally or mechanically) into the space. Unvented Attic Assemblies meeting the requirements of the IRC <del>is</del> are an approved indirectly conditioned space.						
<b>(b) Semiheated space:</b> an enclosed space within a building that is heated by a heating system whose output capacity is greater than or equal to 3.4 Btu/h-ft <sup>2</sup> of floor area but is not a conditioned space.						
<b>(c) Unconditioned space:</b> an enclosed space within a building that is not a conditioned space or a semiheated space. Crawl spaces, attics, and parking garages with natural or mechanical ventilation are not considered enclosed spaces.						
<b>PROPONENT:</b> Phil Brown, Icynene; Windell Peters, WFP Code Services						
<b>NOTES:</b> <i>01.14.10:</i> Nearly identical to ASHRAE 90.1-2004						

(2009-IECC-09)

		ACTION:	AS	AR	D	F
<b>CODE SECTION:</b>	<b>202 GENERAL DEFINITIONS</b>					
<b>PROPOSAL TYPE:</b>	Addition					
<b>PROPOSAL:</b>						
<del><b>AIR BARRIER.</b> Any material that blocks air flow between a conditioned space and an unconditioned space, including necessary sealing to block excessive air flow at edges and seams. Information on proper air sealing can be found in Appendix B, <b>Air sealing</b> key points and on the Building America Web site (<a href="http://www.eere.energy.gov/buildings/building-america">www.eere.energy.gov/buildings/building-america</a>) and in the air EEBA Builder's Guides (<a href="http://www.eeba.org">www.eeba.org</a>). These references include guidance on identifying and sealing air barriers.</del>						
<b>Attic KneeWall.</b> Any vertical or near-vertical wall in the building envelope that has conditioned						

space on one side and unconditioned attic space on the other side. If the envelope features the insulation installed along the sloped ceiling, the vertical wall is considered an interior wall and thus does not require insulation

**PROPOSER:** R. A. Edwards

**NOTES:** 01.14.10: 'AIR BARRIER' definition to be changed to address 'air sealing' and the Air Sealing Appendix will be updated and referenced in Section 402.4.1 (Amendment to be drafted). There will be further discussion during review of Section 402.4. The 'ATTIC KNEEWALL' amendment was considered separately and approved as submitted.

(2009-IECC-10)

**ACTION:** AS AR D F

<b>CODE SECTION:</b>	<b>401.3</b>
<b>PROPOSAL TYPE:</b>	Revision
<b>PROPOSAL:</b>	
<p><b>401.3 Certificate.</b> A permanent certificate shall be posted on or <del>in</del> <u>near</u> the electrical distribution panel <u>or air handler.</u> The certificate shall be... (Middle part of section left unchanged.) ...water heating equipment. <u>The certificate shall also list the calculated heating load, sensible cooling load, latent cooling load and cfm for space conditioning.</u></p>	
<b>PROPOSER:</b> R.A. Edwards	
<b>NOTES:</b> <u>01.14.10:</u> To be revisited under Item # 2009-IECC-10.1 following the completion of the review of Chapter 4 proposed amendments. This is a 2008 GA Amend. to the 06 IECC.	

(2009-IECC-10.1)

**ACTION:** AS AR D F

<b>CODE SECTION:</b>	<b>401.3</b>
<b>PROPOSAL TYPE:</b>	Addition
<b>PROPOSAL:</b>	
<p><b>401.3 Certificate.</b> A permanent certificate shall be readily shall be... (Middle part of section left unchanged.) ...water heating equipment. The certificate shall list the calculated heating load, sensible cooling load, latent cooling load and cfm for space conditioning. <u>The certificate shall also list the duct tightness and either state that a visual inspection was completed or list the envelope tightness test results. Buildings classified as R-2 occupancy shall indicate that the visual inspection option was used or provide envelope tightness test results.</u></p>	
<b>PROPOSER:</b> Mike Barcik and Diana Burk	
<b>NOTES:</b> <u>01.14.10:</u> To be considered after review of Item # 2009-IECC-20 and the completion of review of Chapter 4 proposed amendments. Required coordination with item # 2009-IECC-10 <u>04.22.10:</u> AR with changes above.	

(2009-IECC-11)

<b>ACTION:</b> AS AR <b>D</b> F	
<b>CODE SECTION:</b>	Table 402.1.1
<b>PROPOSAL TYPE:</b>	Revision/addition
<b>PROPOSAL:</b> Revise Climate Zone 4 SHGC from <del>NR</del> to <u>0.30</u> (Please see note) and add a footnote to Table 402.1.1: <u>Attic Kneewalls shall be minimum R-18 with an air barrier <del>en</del> installed over air-permeable insulation on the attic side.</u>	
<b>PROPONENT:</b> R.A. Edwards	
<b>NOTES:</b> <u>01.14.10:</u> The first half of this amendment regarding SHGC has been tabled for discussion on 02.17.10 at 9 AM. The second half regarding attic knee walls has been approved as revised. <u>02.17.10:</u> The SHGC portion of the amendment was approved. See Item #11.5 for delayed implementation.	

(2009-IECC-11.1)

<b>ACTION:</b> AS AR <b>D</b> F	
<b>CODE SECTION:</b>	Table 402.1.1
<b>PROPOSAL TYPE:</b>	Revision
<b>PROPOSAL:</b> <del>Amend Climate zone 1,2,3 Glazed Fenestration SHGC to 0.40</del>	
<b>PROPONENT:</b> Charles H. Chase	
<b>NOTES:</b> <u>01.14.10:</u> Tabled for consideration on 02.17.10 at 9 AM. <u>02.17.10:</u> D	

(2009-IECC-11.2)

<b>ACTION:</b> AS AR <b>D</b> F										
<b>CODE SECTION:</b>	Table 402.1.1									
<b>PROPOSAL TYPE:</b>	Revision									
<b>PROPOSAL:</b>										
<p><b>TABLE 402.1.1</b> <b>INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>a</sup></b></p>										
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKY-LIGHT U-FACTOR <sup>b</sup>	GLAZED FENESTRATION SHGC <sup>b,c</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>i</sup>	FLOOR R-VALUE	BASEMENT <sup>c</sup> WALL R-VALUE	SLAB <sup>d</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>c</sup> WALL R-VALUE
2	0.65 <sup>j</sup>	0.75	0.30	30	13	4/6	13	0	0	0
3	0.50 <sup>j</sup>	0.65	0.30	30	13	5/8	19	5 / 13 <sup>f</sup>	0	5 / 13
4 except Marine	0.35	0.60	<del>NR</del> <u>0.30</u>	38	13	5/10	19	10 / 13	10, 2ft	10 / 13
Portions of the table not included in this proposal shall remain unchanged.										

Action Key:  
AS = Approved as Submitted  
AR = Approved as Revised

W = Withdrawn (by proponent)  
D = Disapproved  
F = Amendment Fails for Lack of Motion

= = Addition by task force  
~~AB~~ = Deletion by task force



(2009-IECC-11.4)

ACTION:	AS	AR	D	F
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<b>CODE SECTION:</b>	402.6		
<b>PROPOSAL TYPE:</b>	Revision		
<b>PROPOSAL:</b>			
<p><b>402.7 402.6 When Trade-Offs Are Used. Minimum Insulation Values for Envelope Components when Trade-Offs Are Used (Mandatory).</b> The minimum insulation R-values and maximum fenestration U-factors for thermal envelope components in projects complying under Sections 402.1.4 through 402.3 404.1 (Prescriptive and Total UA, including use of REScheck) shall be according to Table 402.7.1 402.6.</p>			
<p>TABLE <del>402.7.1</del> 402.6 SUMMARY OF MINIMUM INSULATION R-VALUES AND MAXIMUM U-FACTOR FOR ENVELOPE COMPONENTS WHEN TRADE-OFFS ARE USED</p>			
ELEMENT <sup>1</sup>	<del>MODE</del>	Minimum R-value or Maximum U-factor	
Walls Stud	<del>Heating or cooling</del>	R-13	
Walls Masonry/CMU <sup>2</sup>	<del>Heating or cooling</del>	<del>R-5</del> Climate Zone: 2 R-4	Climate Zone: 3 & 4 R-5
Attic Knee Walls <sup>3</sup>	<del>Heating or cooling</del>	<del>R-19</del> R-18	
<del>Roof/Ceiling</del>	<del>Heating or cooling</del>	<del>R-19</del>	
Ceilings with Attic Spaces	<del>Heating or cooling</del>	R-30	
Air-permeable Roofline Installed Insulation <sup>4</sup>	<del>Heating or cooling</del>	Climate Zone: 2&3 R-19 air-permeable +R-5 air-impermeable	Climate Zone: 4 R-19 air-permeable +R-15 air-impermeable
Air-impermeable Roofline Installed Insulation <sup>4</sup>	<del>Heating or Cooling</del>	R-19	
Floor over unheated spaces	<del>Heating or cooling</del>	R-13	
Windows <sup>5</sup>	<del>Heating or cooling</del>	U-0.65 0.50 with max. SHGC 0.40 0.30	
<p>Note 1: Weather-stripped <del>access</del> hinged vertical doors (minimum R-5 insulation or maximum U-0.25 0.20), weather-stripped hatches/scuttle hole covers (minimum R-19 insulation or maximum U-0.05), or weather-stripped disappearing/pull-down stairs (minimum R-5 insulation or maximum U-0.25 0.20) shall be deemed to meet the minimum insulation R-values of any element.</p> <p>Note 2: Any mass wall above or below grade.</p> <p>Note 3: Attic knee wall for purpose of this code is defined as any vertical or near vertical wall in the building envelope that has conditioned space on one side and attic space on the other side.</p> <p>Exception: <u>When the building roofline is insulated, the former kneewall is classified as an interior wall.</u> <del>When the attic space formed by the attic knee wall, the ceiling of the floor below and the sloped roof is not vented and the sloped roof is insulated (the insulated roof is the building envelope).</del></p> <p>Note 4: Reference the 2010 Georgia Amendment to Section 806.4 'Unvented attic assemblies' of the 2006 International Residential Code for clarification. Examples of air-impermeable insulation include spray foam and rigid foam board. Examples of air-permeable insulation include fiberglass batts and cellulose.</p> <p>Note 5: Maximum window U-factor shall be 0.65 0.50 and maximum SHGC shall be 0.40 0.30.</p>			
The 0.30 SHGC requirement shall take effect on July 1, 2011.			
Portions of the table not included in this proposal shall remain unchanged.			
<b>PROPONENT:</b> Eric Lacey			
<b>NOTES:</b> Also needs to correlate with Item # 2009-IECC-14.1, 11, 11.2, 11.5 and 16.			
02.17.10: Changes to this table include approved changes under the item #'s listed above. 'Walls Masonry/CMU' was changed to prevent a conflict with Table 402.1.1.			
03.11.10: Additional revisions approved.			

(2009-IECC-11.5)

		ACTION:	AS	AR	D	F					
<b>CODE SECTION:</b>	<b>Table 402.1.1</b>										
<b>PROPOSAL TYPE:</b>	Revision										
<b>PROPOSAL:</b>											
<b>TABLE 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>a</sup></b>											
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKY-LIGHT U-FACTOR <sup>b</sup>	GLAZED FENESTRATION SHGC <sup>b,c,e</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>i</sup>	FLOOR R-VALUE	BASEMENT <sup>c</sup> WALL R-VALUE	SLAB <sup>d</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>c</sup> WALL R-VALUE	
2	0.65	0.75	0.30	30	13	4/6	13	0	0	0	
3	0.50 <sup>j</sup>	0.65	0.30	30	13	5/8	19	5 / 13 <sup>f</sup>	0	5 / 13	
4 except Marine	0.35	0.60	NR <u>0.30</u>	38	13	5/10	19	10 / 13	10, 2ft	10 / 13	
Portions of table not shown remain unchanged.											
This amendment shall take effect on <del>January 1, 2012</del> July 1, 2011.											
<b>PROPONENT:</b> Chuck Mailloux											
<b>NOTES:</b> <u>02.17.10</u> The 0.30 SHGC requirement for all climate zones will take effect on July 1, 2011. This amendment to be correlated with all other amendments to Table 402.1.1.											

(2009-IECC-12)

		ACTION:	AS	AR	D	F					
<b>CODE SECTION:</b>	<b>Table 402.1.1</b>										
<b>PROPOSAL TYPE:</b>	Revision										
<b>PROPOSAL:</b>											
<b>TABLE 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>a</sup></b>											
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKY-LIGHT U-FACTOR <sup>b</sup>	GLAZED FENESTRATION SHGC <sup>b,c,e</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>i</sup>	FLOOR R-VALUE	BASEMENT <sup>c</sup> WALL R-VALUE	SLAB <sup>d</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>c</sup> WALL R-VALUE	
2	0.65 <sup>j</sup>	0.75	0.30	30	13	4/6	13	0	0	0	
3	0.50 <sup>j</sup>	0.65	0.30	30	13	5/8	19	5 / 13 <sup>f</sup>	0	5 / 13	
4 except Marine	0.35	0.60	NR	38	13	5/10	19	10 / 13	10, 2ft	10 / 13	
<sup>j</sup> For <del>Where impact rated fenestration is required under complying with Section R301.2.1.2 of the <i>International Residential Code</i> or Section <del>1608.1.2</del> 1609.1.2 of the <i>International Building Code</i>, the maximum U-factor shall be 0.75 in Zone 2 and 0.65 in Zone 3.</del>											
Portions of the table and footnotes not included in this proposal shall remain unchanged.											
<b>PROPONENT:</b> Eric Lacey											
<b>NOTES:</b> <u>02.17.10:</u> The original proposal deleted the footnote, but the task force decided to keep it and only allow this exception if impact rated fenestration is required by the IRC or IBC.											

(2009-IECC-12.1)

		ACTION:	AS	AR	D	F	W
<b>CODE SECTION:</b>	<b>Table 402.1.1 (footnotes)</b>						
<b>PROPOSAL TYPE:</b>	Revise footnotes as follows						
<b>PROPOSAL:</b> Revision							
For SI: 1 foot = 304.8 mm.							
a. <i>R</i> -values are minimums. <i>U</i> -factors and SHGC are maximums. <i>R</i> -19 shall be permitted to be compressed into a 2 × 6 cavity. Non-fenestration <i>U</i> -factors shall be obtained from measurement, calculation or an approved source.							
b. The fenestration <i>U</i> -factor column excludes skylights. The SHGC column applies to all glazed fenestration, including doors 50 percent or more glazed. One door or window (or up to 15 square feet [1.4 m <sup>2</sup> ] of glazed fenestration) may be exempt from meeting the <i>U</i> -factor and SHGC. See Section 402.2.3 'Fenestration access hatches and doors'.							
c. Ends and sides of ceiling joist cavity shall be blocked with an approved air barrier. Flat ceiling insulation shall be in contact with interior side of ceiling. Ceiling areas without attic space in Climate Zone 4 may be <i>R</i> -30 (maximum of 20 <del>5</del> percent of ceiling area or 500 square feet, whichever is less). For HVAC platform and floored access path areas, <del>ceiling insulation may be reduced to <i>R</i>-19</del> refer to Section 402.2.1 of these Georgia State Supplements and Amendments.							
d. All vertical <u>air-permeable</u> insulation shall be in substantial contact with an air barrier on all six (6) sides.							
<b>Exceptions:</b>							
1. Unfinished basements and fireplaces (insulation shall be restrained to stay in place).							
<del>2. On interior side of wall in Climate Zones 2 and 3 behind tubs, showers and fireplaces (insulation shall be restrained to stay in place).</del>							
e. <i>R</i> -13 + <i>R</i> -5, <i>R</i> -15 + <i>R</i> -3, or <i>R</i> -19 compressed into a 2 × 6 cavity is deemed to meet <i>R</i> -18 minimum requirement. Attic side shall have a sealed air barrier.							
f. Floor insulation shall be installed to maintain <u>continuous</u> permanent contact with the underside of the subfloor decking, and insulation ends shall be blocked. Cantilevered floors shall be <i>R</i> -30 and band area above exterior wall shall be blocked.							
g. <i>R</i> -5 is mass and <i>R</i> -13 is cavity and band. For basements with no direct conditioning, either the floor or all of the basement walls shall be insulated. For basements with direct conditioning, all of the basement walls shall be insulated.							
h. <u>Applies to unheated slabs.</u> Heated slabs shall have exterior edge insulated to <i>R</i> -5 to a depth of 2 feet (610 mm). Insulation located below grade shall be in compliance with Section 402.2.7.							
i. See Section 402.2.8 of these Georgia State Supplements and Amendments.							
j. Consideration should be given for mold and moisture, and for termite inspection and treatment.							
k. Where impact rated fenestration is required under Section R301.2.1.2 of the <i>International Residential Code</i> or Section 1609.1.2 of the <i>International Building Code</i> , the maximum <i>U</i> -factor shall be 0.75 in Zone 2 and 0.65 in Zone 3.							
Georgia is Climate Zone 3							
<b>Exceptions:</b>							
1. Climate Zone 2 Counties: Appling, Atkinson, Bacon, Baker, Berrien, Brantley, Brooks, Bryan, Camden, Charlton, Chatham, Clinch, Colquitt, Cook, Decatur, Echols, Effingham, Evans, Glynn, Grady, Jeff Davis, Lanier, Liberty, Long, Lowndes, McIntosh, Miller, Mitchell, Pierce, Seminole, Tattnall, Thomas, Toombs, Ware and Wayne.							
2. Climate Zone 4 Counties: Banks, Catoosa, Chattooga, Dade, Dawson, Fannin, Floyd, Franklin, Gilmer, Gordon, Habersham, Hall, Lumpkin, Murray, Pickens, Rabun, Stephens, Towns, Union, Walker, White and Whitfield.							
<b>PROPONENT:</b> Task Force							
<b>NOTES:</b> 04.22.10: AR. The above changes were made by the task force.							

(2009-IECC-13)

		ACTION:	AS	AR	D	F	W
<b>CODE SECTION:</b>	<b>Table 402.1.1 (footnote)</b>						
<b>PROPOSAL TYPE:</b>	Add footnote						
<b>PROPOSAL:</b> Addition							
Add a footnote to the 2009 IECC Table 402.1.1. Footnote 'k' should read as follows:							
<del>* Log walls complying with ICC 400 and with a minimum average wall thickness of 5" or</del>							

~~greater shall be permitted when all other component requirements are met.~~

**PROPONENT:** John F. Ricketson, III

**NOTES:** 02.17.10: After discussion, the task force determined that the 2009 IECC (Including REScheck) sufficiently addressed log homes and that it was more of an education issue. The proponent withdrew the amendment on the agreement that DCA would write a letter of clarification on how log homes are addressed in the IECC.

(2009-IECC-14)

		<b>ACTION:</b>	<b>AS</b>	<b>AR</b>	<b>D</b>	<b>F</b>
<b>CODE SECTION:</b>	Table 402.1.3					
<b>PROPOSAL TYPE:</b>	Addition					
<b>PROPOSAL:</b>	add a footnote to Table 402.1.3 that specifies “ <del>The Ceiling and Basement Wall U-factors are mandatory maximum values and shall not be traded-off using UA 402.1.4 Total UA alternative or RESCheck</del> ”. <b>Exception</b> , for ceiling areas insulated with an impermeable insulation the maximum U-factor shall be U-0.05.					
<b>PROPONENT:</b>	R. A. Edwards					
<b>NOTES:</b>	<u>02.17.10:</u> D					

(2009-IECC-14.1)

		<b>ACTION:</b>	<b>AS</b>	<b>AR</b>	<b>D</b>	<b>F</b>																								
<b>CODE SECTION:</b>	Table 402.7.1																													
<b>PROPOSAL TYPE:</b>	Revision																													
<b>PROPOSAL:</b>	<p style="text-align: center;"><del>TABLE 402.7.1</del> <del>SUMMARY OF MINIMUM INSULATION R-VALUES AND MAXIMUM U-FACTOR FOR ENVELOPE COMPONENTS</del></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><del>ELEMENT<sup>1</sup></del></th> <th style="text-align: left;"><del>MODE</del></th> <th style="text-align: left;"><del>Minimum R-value or Maximum U-factor</del></th> </tr> </thead> <tbody> <tr> <td><del>Walls Stud</del></td> <td><del>Heating or cooling</del></td> <td><del>R-13</del></td> </tr> <tr> <td><del>Walls Masonry/CMU<sup>2</sup></del></td> <td><del>Heating or cooling</del></td> <td><del>R-5</del></td> </tr> <tr> <td><del>Attic Knee Walls<sup>3</sup></del></td> <td><del>Heating or cooling</del></td> <td><del>R-19</del></td> </tr> <tr> <td><del>Ceilings with Attic Spaces</del></td> <td><del>Heating or cooling</del></td> <td><del>R-30</del></td> </tr> <tr> <td><del>Roof/Cathedral Ceilings</del> <del>Ceilings without Attic Spaces OR Ceilings with conditioned attic spaces (roofline installed insulation)</del></td> <td><del>Heating or cooling</del></td> <td><del>R-19</del></td> </tr> <tr> <td><del>Floor over unheated spaces</del></td> <td><del>Heating or cooling</del></td> <td><del>R-13</del></td> </tr> <tr> <td><del>Windows<sup>4</sup></del></td> <td><del>Heating or cooling</del></td> <td><del>U-0.65 with max. SHGC 0.40</del></td> </tr> </tbody> </table> <p><del>Note 1: Weather stripped access doors (maximum U-0.35), weather stripped hatches/scuttle hole covers (minimum R-19 insulation or U-0.05), or weather stripped disappearing/pull down stairs (maximum U-0.35) shall be deemed to meet the minimum insulation R-values of any Element.</del>  <del>Note 2: Any mass wall above or below grade.</del>  <del>Note 3: Attic knee wall for purpose of this code is defined as any vertical or near vertical wall in the</del></p>						<del>ELEMENT<sup>1</sup></del>	<del>MODE</del>	<del>Minimum R-value or Maximum U-factor</del>	<del>Walls Stud</del>	<del>Heating or cooling</del>	<del>R-13</del>	<del>Walls Masonry/CMU<sup>2</sup></del>	<del>Heating or cooling</del>	<del>R-5</del>	<del>Attic Knee Walls<sup>3</sup></del>	<del>Heating or cooling</del>	<del>R-19</del>	<del>Ceilings with Attic Spaces</del>	<del>Heating or cooling</del>	<del>R-30</del>	<del>Roof/Cathedral Ceilings</del> <del>Ceilings without Attic Spaces OR Ceilings with conditioned attic spaces (roofline installed insulation)</del>	<del>Heating or cooling</del>	<del>R-19</del>	<del>Floor over unheated spaces</del>	<del>Heating or cooling</del>	<del>R-13</del>	<del>Windows<sup>4</sup></del>	<del>Heating or cooling</del>	<del>U-0.65 with max. SHGC 0.40</del>
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<del>Windows<sup>4</sup></del>	<del>Heating or cooling</del>	<del>U-0.65 with max. SHGC 0.40</del>																												

	<del>building envelope that has conditioned space on one side and attic space on the other side.          Exception: When the attic space formed by the attic knee wall, the ceiling of the floor below and the sloped roof is not vented and the sloped roof is insulated (the insulated roof is the building envelope).          Note 4: Maximum window U-factor shall be 0.65 and maximum SHGC shall be 0.40.</del>
<b>PROPOSER:</b> Mike Barcik and Diana Burk	
<b>NOTES:</b> <u>02.17.10:</u> This Item was voted on with Item #11.4. All changes in Item #11.4 reflect the changes agreed upon during discussion of this proposal. For clarity this proposal has been marked as deleted, refer to Item #11.4 for the appropriate revisions.	

**(2009-IECC-15)**

		<b>ACTION:</b>	<b>AS</b>	<b>AR</b>	<b>D</b>	<b>F</b>
<b>CODE SECTION:</b>	<b>Section 402.1.4</b>					
<b>PROPOSAL TYPE:</b>	Revision					
<b>PROPOSAL:</b>						
If the total building thermal envelope...						
The UA method calculation shall be done using a method consistent with the ASHRAE Handbook of Fundamentals or RESNET's Mortgage Industry National Home Energy Rating System Standards and shall include the thermal bridging effects of framing materials.						
The SHGC...						
<b>PROPOSER:</b> Darrell L. Howell						
<b>NOTES:</b> <u>02.17.10:</u> Item has been tabled for the March 11 meeting.						
<u>03.11.10:</u> AS						

**(2009-IECC-16)**

		<b>ACTION:</b>	<b>AS</b>	<b>AR</b>	<b>D</b>	<b>F</b>
<b>CODE SECTION:</b>	<b>402.2.3</b>					
<b>PROPOSAL TYPE:</b>	Addition					
<b>PROPOSAL:</b>						
<del>402.2.3</del> <b>402.2.3 Fenestration Access hatches and doors.</b> Access doors from conditioned spaces to unconditioned spaces (e.g., attics, <u>unconditioned basements</u> and crawl spaces) shall be weather-stripped and insulated to a level equivalent to the insulation on the surrounding surfaces. in accordance with Table 402.1.1 and Table 402.1.3 Fenestration U-Factor and the following insulation values:						
<ol style="list-style-type: none"> <li>1. <u>Hinged vertical doors shall have a maximum U-Factor of U-0.2 (R-5 minimum);</u></li> <li>2. <u>Hatches/scuttle hole covers shall have a maximum U-Factor U-0.05 (R-19 minimum);</u> and</li> <li>3. <u>pull down stairs shall have a maximum U-Factor of U-0.2520 with a minimum of 80 75 percent of the panel area having R-45 minimum insulation.</u></li> </ol>						
Access shall be provided to all equipment which prevents damaging or compressing the insulation. A wood framed or equivalent baffle or retainer is required to be provided when loose fill insulation is installed, the purpose of which is to prevent the loose fill insulation from spilling into the living space when the attic access is opened, and to provide a permanent means of maintaining the installed R-value of the loose fill insulation.						
Also add a footnote to Table 402.1.1 & Table 402.1.3 See: 402.2.3.7 Fenestration access hatches						

and doors. This footnote will eliminate the confusion/conflict of what the U-factor is for a door, hatch and/or pull down stairs between conditioned and unconditioned spaces.

**PROPONENT:** R. A. Edwards

**NOTES:** 01.14.10: This item was approved as revised during the meeting and was voted on in conjunction with Section 402.3.4 of Item # 2009-IECC-16.1. Manufacturers to review feasibility of new requirements.

**(2009-IECC-16.1)**

		ACTION: AS <b>AR</b> D F			
<b>CODE SECTION:</b>	<b>402.3.4</b>				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b>					
<del>402.2.3 Access hatches and doors. Vertical weather-stripped access doors with continuous R-10 (maximum U-0.10), weather-stripped hatches/scuttle hole covers with minimum continuous R-19 insulation (maximum U-0.050), or weather-stripped disappearing/pull-down stairs with minimum continuous rigid R-10 (maximum U-0.10) shall be deemed to meet the minimum insulation R-values of any element. (SEE NOTE)</del>					
<b>402.3.4 Opaque door exemption.</b> One side-hinged opaque door assembly up to 24 square feet (2.22 m <sup>2</sup> ) in area is exempt from the U-factor requirement in Section 402.1.1.. This exemption shall not apply <u>to attic access doors or</u> to the U-factor alternative approach in Section 402.1.3 and the Total UA alternative in Section 402.1.4.					
<b>PROPONENT:</b> Mike Barcik and Diana Burk					
<b>NOTES:</b> <u>01.14.10:</u> Section 402.3.4 was voted on with Item # 2009-IECC-16. Section 402.2.3 was deleted upon approval of Item # 2009-IECC-16.					

**(2009-IECC-17)**

		ACTION: AS <b>AR</b> D F			
<b>CODE SECTION:</b>	<b>402.2.1</b>				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b>					
<del>402.2.1 Ceilings with attic spaces.... at the eaves. For attic HVAC attic platforms, R-19 (maximum U-0.047) shall be deemed to meet the requirements of R-30/38 (maximum U-0.035/0.030) in the ceiling. R-19 is deemed acceptable for up to 32 square feet of attic decking per HVAC system. R-19 shall be deemed acceptable for a maximum 32 inch wide passage to the HVAC system as referenced under Section M1305.1.3 of the International Residential Code.</del>					
<b>PROPONENT:</b> Mike Barcik and Diana Burk					
<b>NOTES:</b> Item tabled for March 11, pending further study and review for conflicts with the IRC or IMC. <u>03.11.10:</u> AR—with addition of last sentence.					

(2009-IECC-18)

		ACTION: AS AR D F			
<b>CODE SECTION:</b>	402.2.1.1				
<b>PROPOSAL TYPE:</b>	Addition				
<b>PROPOSAL:</b>					
<del>402.2.4 402.2.1.1 Wind wash baffle. For air permeable insulations in vented attics a baffle shall be installed adjacent to soffit and eave vents. Baffles shall maintain an opening equal or greater than the size net free opening of the vent. The baffle shall extend over the top of the insulation inward until it is at least 4 inches vertically above the insulation full height. The baffle shall be permitted to be any solid material such as cardboard or thin insulating sheathing.</del>					
<u>402.2.1.1 Wind wash baffle and air-permeable insulation dam. For air permeable insulation in vented attics, baffles shall be installed adjacent to soffit and eave vents. A minimum of a 1-inch of space shall be provided between the insulation and the roof sheathing and at the location of the vent. The baffle shall extend over the top of the insulation inward until it is at least 4 inches vertically above the top of the insulation. Any solid material such as cardboard or thin insulating sheathing shall be permissible as the baffle.</u>					
Also add this language on the Air sealing key points Appendix					
<b>PROPOSANT:</b> R. A. Edwards					
<b>NOTES:</b> <u>02.17.10:</u> Section 402.2.4 is not the appropriate section within 2009 IECC to put this amendment. The highlighted section # is a staff recommendation. <u>03.11.10:</u> Motion was made and approved to revise this language to the language found on page 10 of the 'Air Sealing Key Points' Appendix.					

(2009-IECC-18.1)

		ACTION: AS AR D F			
<b>CODE SECTION:</b>	402.2.6				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b>					
<b>402.2.6 Floors.</b> Floor insulation shall be installed to maintain <u>continuous</u> permanent contact with the underside of the subfloor decking.					
<b>PROPOSANT:</b> Task Force					
<b>NOTES:</b> <u>04.22.10:</u> This amendment was created after the approval of a revision to the footnotes to Table 402.1.1.					

(2009-IECC-19)

		ACTION: AS AR D F			
<b>CODE SECTION:</b>	Air Sealing Key Points Appendix				
<b>PROPOSAL TYPE:</b>	Addition				
<b>PROPOSAL:</b> Add the wind wash comments to the current Georgia Energy Code Appendix A					



(2009-IECC-20)

		ACTION:			
		AS	AR	D	F
<b>CODE SECTION:</b>	402.4.2.2				
<b>PROPOSAL TYPE:</b>	Delete w/o substitution				
<b>PROPOSAL:</b> Visual Inspection Option  Delete entire section...					
<b>PROPONENT:</b> Darrell L. Howell					
<b>NOTES:</b> <u>02.17.10:</u> Item has been tabled for March 11 pending further study of the estimated cost associated with conducting building envelope tightness testing. <u>03.11.10:</u> Item tabled for review by Work Group on <u>04.19.10</u> <u>04.19.10:</u> Work Group recommends approval. <u>04.22.10:</u> AS					

(2009-IECC-20.1)

		ACTION:			
		AS	AR	D	F
<b>CODE SECTION:</b>	402.4.2, 403.2.3, 202				
<b>PROPOSAL TYPE:</b>	Addition				
<b>PROPOSAL:</b> Delete visual inspection option 402.4.2.2 Visual inspection option... and insulation.  Add new section:  <b>402.4.2.2 Certified Duct and Envelope Tightness (DET) verifier.</b> Testing for building envelope tightness <del>must</del> shall be conducted by a certified DET verifier. <del>If the building is certified under a green building program that requires testing for building envelope tightness, such as ENERGY STAR, LEED for Homes, EarthCraft House, Environments for Living, etc., the building does not need to further demonstrate compliance with section 402.4.2.1.</del>  Add new section:  <b>403.2.2.1 Certified Duct and Envelope Tightness (DET) verifier.</b> Testing for duct sealing tightness <del>must</del> shall be conducted by a certified DET verifier. <del>If the building is certified under a green building program that requires testing for duct sealing, such as ENERGY STAR, LEED for Homes, EarthCraft House, Environments for Living, etc., the building does not need to further demonstrate compliance with section 403.2.2</del>  Add new definition in section 202:  <b>CERTIFIED DUCT AND ENVELOPE TIGHTNESS (DET) VERIFIER.</b> A certified DET verifier shall <del>either</del> be a certified Home Energy Rating Systems (HERS) rater, or be a certified Home Performance with ENERGY STAR contractor, or be a Building Performance Institute					

(BPI) Analyst, or successfully complete a certified **DET** verifier course that is approved by the Georgia Department of Community Affairs.

**PROPOSER:** Mike Barcik and Diana Burk

**NOTES:** 02.17.10: Item has been tabled pending further review.

03.11.10: Item tabled for review by Work Group on 04.19.10.

04.13.10: Proponents submitted a revised amendment.

04.19.10: Work Group recommends approval with the above changes (double underline/double strikethrough). 04.22.10: AR

(2009-IECC-20.2)

**ACTION:** AS **AR** D F

**CODE SECTION:** 402.4.2.1

**PROPOSAL TYPE:** Addition/Revision

**PROPOSAL:**

Revise section to read:

**402.4.2.1 Testing ~~Option~~ required.** Building envelope tightness and insulation shall be considered acceptable when tested air leakage is less than seven air changes per hour (ACH) when tested with a blower door at a pressure of 50 Pascal (1.04 psf) (ACH<sub>50</sub>). The formula for calculating ACH<sub>50</sub> and testing protocol is listed in Appendix A. ~~Building envelope tightness testing shall not be required for alterations.~~

Appendix A: Blower Door and Duct Blaster Testing Protocol

Blower Door Testing Protocol

Blower door manufacturer's testing protocol should be used in addition to the following:

1. Set combustion appliances to pilot that are inside the building thermal envelope.
2. Turn off the heating and cooling system(s).
3. Leave all supply registers and return grills open and uncovered. HVAC ducts shall not be sealed.
4. Leave all bathroom and kitchen fans open (i.e., in their normal operating condition). Only a permanently installed back draft damper in its normal condition may impede the flow of air.
5. Leave any combustion air ducts or louvers to the exterior open. (If a homeowner or builder has sealed them off, open them for the test.)
6. Leave any make-up air ducts with in-line dampers (e.g., for large kitchen exhaust fans or combustion air) as-is (unsealed). Only a permanently installed back draft damper or motorized damper, in its normal condition may impede the flow of air.
7. Leave the dryer vent as-is, whether or not the dryer is in place during the test. Only a permanently installed back draft damper in its normal condition may impede the flow of air.
8. Leave open any outside air duct supplying fresh air for intermittent ventilation systems (including a central-fan-integrated distribution system)
9. Operable crawl-space vents, where present, are to be left in the open position.
10. Open all interior doors within the conditioned space, including doors to conditioned basements.
11. Leave louvered openings of a whole-house fan as is. (If there is a seasonal cover in place

- during the test, leave it in place.)
12. Close all doors to the exterior or unconditioned spaces; if any door to the exterior or unconditioned space lacks weather-stripping at testing time, it can be temporarily taped off.
  13. Close and latch all windows.
  14. Close chimney dampers.
  15. Either seal or fill with water plumbing drains with p-traps that may be empty.
  16. Seal off exterior duct openings to continuously operating fresh-air or exhaust-air ventilation systems (preferably at the exterior envelope).
  17. Establish baseline pressure prior to conducting blower door test.
- $ACH_{50} = CFM_{50} * 60 / \text{Total Volume}$   
 $CFM_{50} = \text{Fan Flow (cubic feet per minute) when house pressure difference is 50 pascals (1.04 psf)}$   
 Total Volume = Volume enclosed by building envelope in cubic feet

**PROPONENT:** Mike Barcik and Diana Burk

**NOTES:** 02.17.10: Item has been tabled pending further review.  
03.10.10: Amendment was revised by proponent after further review.  
03.11.10: Item tabled for review by Work Group on 04.19.10  
04.19.10: Work Group recommends approval. Highlighted language is a DCA staff clarification based on work group concerns over renovations/alterations. DCA staff recommends changing title of section because of elimination of 'Visual Inspection Option'.  
04.22.10: AR

**(2009-IECC-20.2.1)**

	ACTION:	AS	AR	D	F
<b>CODE SECTION:</b>	<b>402.4.2.2</b>				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b>					
<u>402.4.2.2 Envelope testing for Additions, renovations, alterations or repairs. Building envelope tightness testing for additions, renovations, alterations or repairs shall only be conducted in the case of construction that affects all aspects of the building envelope.</u>					
<del>403.2.2.Duct tightness testing for additions, renovations, alterations or repairs. Duct tightness testing for additions, renovations, alterations or repairs shall be conducted if any portion of the ducts, air handler or filter box is altered.</del>					
<b><u>403.2.2</u></b>					
<b><u>Exceptions:</u></b>					
<ol style="list-style-type: none"> <li>1. <u>Duct tightness test is not required if the air handler and all ducts are located within conditioned space.</u></li> <li>2. <u>Duct tightness testing is not required for existing duct systems unless more than 50% of the duct system is modified.</u></li> </ol>					

3. If air handler, furnace or evaporator coil is replaced on an existing system, all joints, seams and connections from equipment to duct system and duct system connections to plenums shall meet the sealing requirements of this code and be verified by a visual inspection by the state licensed conditioned air contractor or by a DET Verifier.

**PROPOSER:** Mike Barcik, Diana Burk, Dan Bramblett

**NOTES:** 04.21.10: New amendment submitted. (Language needs to correlate with #20.2)  
04.22.10: AR

**(2009-IECC-20.3)**

		ACTION:				
		AS	AR	D	F	
<b>CODE SECTION:</b>	402.4.2.1.1					
<b>PROPOSAL TYPE:</b>	Addition					
<b>PROPOSAL:</b> Add new section to read as follows:						
<b>402.4.2.1.1 Low-Rise Multifamily Testing Protocol.</b> Where a <del>multifamily structure residential</del> building is classified as R-2 <del>contains more than four dwelling units</del> , envelope testing of less than 100 percent shall be acceptable if one of the following two testing protocols are applied.						
<ol style="list-style-type: none"> <li>1. <u>Testing Protocol 1: A sampling of one in four of all dwelling units on each floor within each multifamily building shall be tested for envelope tightness. If any dwelling unit within the building fails to meet the performance testing goal, that dwelling unit shall be further sealed and retested until the unit passes the performance testing goal.</u></li> <li>2. <u>Testing Protocol 2: Use the sampling protocol as described in Chapter 6 of the 2006 Mortgage Industry National Home Energy Rating Systems Standards</u></li> </ol>						
<u>Exception: Building envelope tightness and insulation installation shall be considered acceptable when the items listed in Table 402.4.2 applicable to the method of construction, are field verified, for all dwelling units, by a third party ICC Certified Residential Energy Inspector/Plans Examiner or equivalent qualifications as approved by the code official.</u>						
<b>PROPOSER:</b> Mike Barcik and Diana Burk						
<b>NOTES:</b> <u>03.10.10:</u> Newly submitted amendment based on concerns from the <u>02.17.10</u> Task Force Meeting about requirements for testing of multi-family buildings. <u>03.11.10:</u> Tabled for review by Work Group on <u>04.19.10</u> . <u>04.13.10:</u> Proponents submitted a revised amendment. <u>04.19.10:</u> Work Group recommends adoption, pending approval of the 'Exception' language. <u>04.22.10:</u> AR						

**(2009-IECC-21)**

		ACTION:				
		AS	AR	D	F	
<b>CODE SECTION:</b>	402.8.9					
<b>PROPOSAL TYPE:</b>	Revision					
<b>PROPOSAL:</b> <del>402.2.9 Crawl space walls. As an alternative to insulating floors over crawl spaces, crawl space</del>						

~~walls shall be permitted to be insulated when the crawl space is not vented to the outside. Crawl space wall insulation shall be permanently fastened to the wall and extend downward from the floor to within 9 inches (229 mm) of the finished interior grade adjacent to the foundation wall. A 3-inch (76 mm) inspection/view strip immediately below the floor joists shall be provided to permit inspections for termites. Exposed earth in unvented crawl space foundations shall be covered with a continuous vapor retarder (minimum 6 mil [0.15 mm]). All joints of the vapor retarder shall overlap by 6 inches (152 mm) and be sealed or taped. The edges of the vapor retarder shall extend at least 9 inches (228 mm) up the stem wall and shall be attached and sealed to the stem wall.~~

**PROPONENT:** R.A. Edwards

**NOTES:** 02.17.10: This Item was disapproved as submitted. See Item #21.1 for more information.

(2009-IECC-21.1)

**ACTION:** AS AR **D** F

<b>CODE SECTION:</b>	<b>402.2.9</b>
<b>PROPOSAL TYPE:</b>	Delete and Substitute

**PROPOSAL:** Delete Section 402.2.9 and substitute the following:

**402.2.9 Crawl space walls.** As an alternative to insulating floors over crawl spaces, crawl space walls shall be permitted to be insulated when the crawl space is not vented to the outside. Crawl space wall insulation shall be permanently fastened to the wall and extend downward from the floor to within 9 inches (229 mm) of the finished interior grade adjacent to the foundation wall. A 3-inch (76 mm) inspection/view strip immediately below the floor joists shall be provided to permit inspections for termites. Exposed earth in unvented crawl space foundations shall be covered with a continuous Class 1 vapor retarder in accordance with the International Building Code (minimum 6 mil [0.15 mm]). All joints of the vapor retarder shall overlap by 6 inches (152 mm) and be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (228 mm) up the stem wall and shall be attached and sealed to the stem wall.

**PROPONENT:** Task Force

**NOTES:** 02.17.10: Upon disapproval of Item #21 a motion was made to bring forward the current language from the 2008 GA Amendment to the IECC.

(2009-IECC-22)

**ACTION:** AS AR **D** F

<b>CODE SECTION:</b>	<b>403</b>
<b>PROPOSAL TYPE:</b>	Addition

**PROPOSAL:**

~~Add new section 403.1 to read:~~

~~403.1 Furnace efficiency.~~

~~403.1.1 Gas fired furnaces with inputs less than 225,000 BTU/H input capacity shall have an efficiency rating of not less than 90% AFUE.~~

Action Key:

AS = Approved as Submitted  
AR = Approved as Revised

W = Withdrawn (by proponent)

D = Disapproved

F = Amendment Fails for Lack of Motion

= = Addition by task force

~~AB~~ = Deletion by task force

~~Relocate present section 403.1.2 with its exemption to follow this section.  
 Renumber remaining subsections of 403.~~

**PROPONENT:** Earl A. Ferguson, P.E.

**NOTES:** 02.17.10: D

(2009-IECC-23)

**ACTION:** AS AR D F **W**

<b>CODE SECTION:</b>	<b>403.2.2</b>
<b>PROPOSAL TYPE:</b>	Revision
<b>PROPOSAL:</b> <del>Revise section to read:</del> <del><b>403.2.2</b> Duct Tightness Testing Method Method 1 &amp; 2</del> <del>Method 1</del> <del>Original:</del> <del>...when tested at a pressure differential of .01 inches w.g. (25 Pa) across the entire system, including ...</del> <del>Revision:</del> <del>... when tested at a pressure differential of .02 inches w.g. (50 Pa) across the entire system, including ...</del> <del>Method 2</del> <del>Original:</del> <del>...when tested at a pressure differential of .01 inches w.g. (25 Pa) across the roughed in system, including ...</del> <del>Revision:</del> <del>... when tested at a pressure differential of .02 inches w.g. (50 Pa) across the roughed in system, including ...</del>	
<b>PROPONENT:</b> Darrell L. Howell	
<b>NOTES:</b> <u>02.17.10:</u> Item tabled for March 11. <u>03.11.10:</u> Item tabled for review by Work Group on <u>04.19.10</u> <u>04.19.10:</u> Item withdrawn by proponent.	

(2009-IECC-23.1)

**ACTION:** AS AR D F **W**

<b>CODE SECTION:</b>	<b>403.2.2</b>
<b>PROPOSAL TYPE:</b>	Revision
<b>PROPOSAL:</b> <del>Revise the fourth sentence to read:</del> <del><b>403.2.2</b> Sealing (Mandatory)...</del> <del>1. Postconstruction test: Leakage... or equal to 12 cfm (12 339.8 L/min)</del>	
<b>PROPONENT:</b> Mike Barcik and Diana Burk	
<b>NOTES:</b> <u>02.17.10:</u> Item tabled for March 11. <u>03.11.10:</u> Item tabled for review by Work Group on <u>04.19.10</u> <u>04.19.10:</u> Item addressed with ICC errata. Withdrawn	

(2009-IECC-23.2)

		ACTION:			
		AS	AR	D	F
<b>CODE SECTION:</b>	<b>403.2.2</b>				
<b>PROPOSAL TYPE:</b>	Revision/Addition				
<b>PROPOSAL:</b>					
Revise section to read:					
<b>403.2.2 Sealing (Mandatory).</b>					
Duct tightness shall be verified by <del>either</del> <u>any</u> of the following and comply with the testing protocol in Appendix A					
1. Post-construction test: Leakage to outdoors <u>for each system</u> shall be less than or equal to 8 cfm (226.5 L/min) per 100 ft <sup>2</sup> (9.29 m <sup>2</sup> ) of <u>conditioned floor area assigned to that system</u> or a total leakage <u>for each system with the air handler installed</u> of less than or equal to 12 cfm (339.8 L/min) per 100 ft <sup>2</sup> (9.29 m <sup>2</sup> ) of <u>conditioned floor area assigned to that system</u> when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. <del>All register boots shall be taped or otherwise sealed during test.</del> <u>Conditioned floor area should be calculated using ANSI Z765, but should include all directly conditioned square footage, whether finished or not, that meets building code requirements for living space.</u>					
2. Rough-in test: <u>Total leakage for each system with the air handler installed shall be less than or equal to 6 cfm (169.9 L/min) per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of conditioned floor area assigned to that system when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the roughed in system. All register boots shall be taped or otherwise sealed during test.</u> <del>If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of conditioned floor area.</del>					
<u>Appendix A:</u>					
<u>Duct Testing: A duct blaster or a multi-point blower door subtraction method shall be used to measure duct tightness. When using a duct blaster all register boots shall be taped or otherwise sealed during the test. If using the multi-point blower door subtraction method all register boots shall be taped for one part of the two part test. For both tests, the blower door and duct blaster manufactures' testing protocol should be used in addition to following:</u>					
18. <u>Set combustion appliances to pilot that are inside the building thermal envelope.</u>					
19. <u>Turn off the heating, cooling and ventilation system(s) ensuring all zone dampers are in the open position.</u>					
20. <u>Do not tape over outside air duct supplying fresh air for ventilation systems (including a central-fan-integrated distribution system), but do close the ventilation damper. (Does not apply when only using the multi-point blower door subtraction method)</u>					
<u>Do not add any additional temporary tape or airsealing to the HVAC system for testing purposes.</u>					
<b>PROPONENT:</b> Mike Barcik and Diana Burk					
<b>NOTES:</b> <u>02.17.10:</u> Item tabled for March 11.					
<u>03.11.10:</u> Item tabled for review by Work Group on <u>04.19.10</u>					
<u>04.19.10:</u> Work Group recommends approval with the modifications shown above.					
<u>04.22.10:</u> AR					

(2009-IECC-23.3)

		ACTION: AS AR D F			
<b>CODE SECTION:</b>	403.2.3				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b> <b>403.2.3 Building cavities (Mandatory).</b> Building framing cavities shall not be used as supply or return ducts. All supply and return ducts must be lined with metal, flex duct, ductboard or other material approved in section M1601 of the IRC.					
<b>PROPONENT:</b> Mike Barcik and Diana Burk					
<b>NOTES:</b> 02.17.10: AS					

(2009-IECC-23.4)

		ACTION: AS AR D F			
<b>CODE SECTION:</b>	403.2.2				
<b>PROPOSAL TYPE:</b>	Revision/Addition				
<b>PROPOSAL:</b> Revise the first sentence to read:  <b>403.2.2 Sealing (Mandatory).</b> All ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with section 403.2.4.  Add section:  <b>403.2.4 Joints and seams.</b> Joints of duct systems shall be made substantially airtight by means of tapes, mastics, liquid sealants, gasketing or other approved closure systems. Without exception all closure systems must have mastic applied that is at least 2 mm (0.08 inches) thick. Closure systems used with rigid fibrous glass ducts shall comply with UL181A and shall be marked 181A-P for pressure-sensitive tape used with mastic, 181A-M for only mastic or 181 A-H for heat-sensitive tape used with mastic. Closure systems used with flexible air ducts and flexible air connectors shall comply with UL181B and shall be marked 181B-FX for pressure-sensitive tape used with mastic or 181B-M for only mastic. Duct connections to flanges of air distribution system equipment or sheet metal fittings shall use mastic and be mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round metal ducts shall have a contact lap of at least 1 1/2 inches (38 mm) and shall use mastic and be mechanically fastened by means of at least three sheet-metal screws or rivets equally spaced around the joint. Closure systems used to seal metal ductwork shall be installed in accordance with the manufacturer's installation instructions. Exceptions: 1. Application of spray polyurethane foam and mastic shall be permitted without additional joint seals. 2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect. Mastic must be applied on all accessible sides.					

3. Continuously welded and locking type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500Pa) pressure classification shall not require additional closure systems.

**PROPONENT:** Mike Barcik and Diana Burk

**NOTES:** Section 403.2.4 would be entirely new to the IECC. The underlined portions are the changes to the IRC Section M1601.

02.17.10: Item was approved with the addition of “accessible” under exception #2.

**(2009-IECC-24)**

		ACTION: AS AR <b>D</b> F			
<b>CODE SECTION:</b>	<b>403.6.1</b>				
<b>PROPOSAL TYPE:</b>	Addition				
<b>PROPOSAL:</b>					
<del><b>403.6.1 Space heating equipment (Mandatory).</b> Electric resistance heating shall not be used for space heating. This includes but is not limited to: electric space heaters, electric furnaces, electric baseboard heaters, electric wall heaters, and electric thermal storage.</del>					
<del><b>Exceptions:</b></del>					
<del>1. Electric resistance heating may be installed in dwelling units with separate zone controls for spaces not</del>					
<del>—exceeding 500 square feet in area, each controlled by an individual thermostat, where:</del>					
<del>—1.1. Located in a county with less than 500 heating degree days (HDD); or</del>					
<del>—1.2. Located in a county with less than 1,500 HDD and containing less than 1,000 square feet total conditioned floor area; or</del>					
<del>—1.3. The dwelling unit has a peak heating rate not more than 6.8 Btu/h ft<sup>2</sup> or 2 Watt/ft<sup>2</sup> and is located</del>					
<del>— in any climate zone.</del>					
<del>2. Where electric resistance heating is used for air to air heat pump supplementary heat in climate zones 1, 2, 3 and 4, excluding 4 Marine.</del>					
<del>3. Portable plug-in temporary heaters.</del>					
<b>PROPONENT:</b> R. A. Edwards					
<b>NOTES:</b> <u>02.17.10:</u> This Item was disapproved as submitted. Please see Item #24.1 for more information.					

**(2009-IECC-24.1)**

		ACTION: AS AR <b>D</b> F			
<b>CODE SECTION:</b>	<b>403.6.1</b>				
<b>PROPOSAL TYPE:</b>	Addition				
<b>PROPOSAL:</b>					
<del><b>403.6.1 Primary heat source.</b> For new dwelling unit central HVAC systems, or replacement HVAC systems installed in dwelling units that were originally permitted after January 1, 1996, electric-resistance heat shall not be used as the primary heat source. Primary heat source is defined as the heat source for the original dwelling unit system.</del>					
<del><b>Exception:</b> Alterations or additions of 50% or less than the original conditioned floor area.</del>					

**PROPONENT:** Task Force

**NOTES:** 02.17.10: Upon disapproval of Item #24, a motion was made to bring forth the current 2009 GA Amendment to the IECC.

(2009-IECC-25)

		ACTION:			
		AS	AR	<b>D</b>	F
<b>CODE SECTION:</b>	<b>403.4</b>				
<b>PROPOSAL TYPE:</b>	Addition				
<b>PROPOSAL:</b>					
<del>403.7 403.4.1 Hot water demand circulating system required. In group R-1, R-2, R-3, and R-4 occupancies, where the furthest fixture requiring hot water is greater than 15-25 feet (4572-7620 mm) in developed pipe length from the outlet of the source of hot water, a hot water circulating system shall be installed on the hot water distribution system. The circulating system shall be designed to make hot water available in the hot water distribution system at point that is not greater than 15 feet (4572 mm) in developed pipe length from the fixture requiring hot water. The circulating system pump shall be controlled by a momentary demand switch. Where point-of-use water heaters are provided for fixtures, a hot water circulating system shall not be required.</del>					
<del>* This amendment shall be removed upon its approval as a Georgia Amendment to the International Plumbing Code.</del>					
<b>PROPONENT:</b> Mike Ashley					
<b>NOTES:</b> <u>02.17.10:</u> AR <u>04.22.10:</u> D, referred to the SCAC Subcommittee for consideration in the International Plumbing Code.					

(2009-IECC-26)

		ACTION:			
		AS	<b>AR</b>	D	F
<b>CODE SECTION:</b>	<b>403.10</b>				
<b>PROPOSAL TYPE:</b>	Addition				
<del>403.10 Power attic ventilators. In new construction power attic ventilators shall not be connected to the electric grid. Power attic ventilators connected to a solar panel are allowed.</del>					
<b>PROPONENT:</b> Mike Barcik and Abe Kruger					
<b>NOTES:</b> <u>02.17.10:</u> AS <u>04.22.10:</u> AR					

(2009-IECC-27)

		ACTION:			
		AS	<b>AR</b>	D	F
<b>CODE SECTION:</b>	<b>404</b>				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b>					
<del>404.1 Lighting equipment (Prescriptive). A minimum of 50 percent of the lamps in permanently installed lighting fixtures shall be contain only high-efficacy lamps without a screw-based socket or be controlled with an occupancy/vacancy sensor or automated lighting control system. or dimmer</del>					

<b>PROPOSER:</b> Jacqui Heslep
<b>NOTES:</b> <u>03.11.10:</u> AR.

**(2009-IECC-28)**

<b>ACTION:</b>	AS	AR	D	F
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<b>CODE SECTION:</b>	<b>Chapter 5</b>
<b>PROPOSAL TYPE:</b>	Deletion
<b>PROPOSAL:</b> <del>Eliminate IECC commercial energy code requirements indicated in Chapter 5 of the 2009 IECC and use ANSI/IESNA/ASHRAE Standard 90.1-2007 Energy Standard for Buildings Except Low Rise Residential Buildings as the commercial building energy code for the State.</del>	
<b>PROPOSER:</b> Jeff Ross-Bain	
<b>NOTES:</b> <u>03.11.10:</u> D.	

**(2009-IECC-29)**

<b>ACTION:</b>	AS	AR	D	F	W
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<b>CODE SECTION:</b>	<b>502.2.3</b>
<b>PROPOSAL TYPE:</b>	Revision
<b>PROPOSAL:</b> Add new "Exception" to the 2008 Georgia Amendment to read as follows:  <del><b>502.2.3 Above Grade Walls.</b> The minimum thermal resistance....</del>  <del><b>Exception:</b> Above grade walls for new commercial dwelling units (classified as residential structures four stories or higher and two or more units), and alterations and additions, shall meet the minimum thermal criteria (U Value, R Value + e.i.) as established in ANSI/ASHRAE/IESNA Standard 90.1 Energy Standard for Buildings Except Low Rise Residential Buildings tables 5.5.1 through 5.5.8 Building Envelope Requirements, under the Residential column heading.</del>	
<b>PROPOSER:</b> Jeff Ross-Bain	
<b>NOTES:</b> Withdrawn by proponent. Amendment is addressed in the 2009 IECC	

**(2009-IECC-30)**

<b>ACTION:</b>	AS	AR	D	F
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<b>CODE SECTION:</b>	<b>Table 502.3</b>		
<b>PROPOSAL TYPE:</b>	Revision		
<b>PROPOSAL:</b>			
<b>Table 502.3</b> <b>BUILDING ENVELOPE REQUIREMENTS: FENESTRATION</b>			
<b>Climate Zone</b>	<b>2</b>	<b>3</b>	<b>4 Except Marine</b>
<b>Vertical fenestration (40% maximum of above-grade wall)</b>			
<b>SHGC – all frame types</b>			
SHGC: PF < 0.25	0.25	0.25	0.40

			<del>0.25</del>
SHGC: 0.25 ≤ PF < 0.5	0.33	0.33	NR <del>0.33</del> 0.40
SHGC: PF ≥ 0.5	0.40	0.40	NR 0.40
<b>Skylights (3% maximum)</b>			
U-factor	0.75	0.65	0.60
SHGC	0.35	0.35	0.40 <del>0.35</del>

Portions of the table not included in this proposal shall remain unchanged.

**PROPONENT:** Eric Lacey

**NOTES:** 03.11.10: AR. Proponent was asked to submit an additional amendment to change ASHRAE 90.1 to match this approved amendment.

**(2009-IECC-31)**

**ACTION:** AS AR D F

<b>CODE SECTION:</b>	Table 502.3		
<b>PROPOSAL TYPE:</b>	Revision		
<b>PROPOSAL:</b>	Table 502.3 BUILDING ENVELOPE REQUIREMENTS: FENESTRATION		
	2	3	4 Except Marine
<b>Vertical fenestration (40% maximum of above-grade wall)</b>			
U-factor			
<b>Framing materials other than metal with or without metal reinforcement or cladding</b>			
U-factor	0.75	0.65	0.40
<b>Metal framing with or without thermal break</b>			
Curtain wall/storefront U-factor	0.70	0.60	0.50
Entrance door U-factor	1.10	0.90	0.85
All other U-factor <sup>a</sup>	0.75	0.65	0.55 0.40

Portions of the table not included in this proposal shall remain unchanged.

**PROPONENT:** Eric Lacey

**NOTES:** 03.11.10: AS. Proponent was asked to submit an additional amendment to change ASHRAE 90.1 to match this approved amendment.

**(2009-IECC-31.1)**

**ACTION:** AS AR D F

<b>CODE SECTION:</b>	ASHRAE 90.1-2007, Table 5.5-4		
<b>PROPOSAL TYPE:</b>	Revision		
<b>PROPOSAL:</b>	<del>Revise table to read as follows:</del>		
<del>TABLE 5.5-4 Building Envelope Requirements for Climate Zone 4 (A, B, C)*</del>			
<del>Nonresidential Residential Semih heated</del>			

Fenestration	Assembly Max. U	Assembly Max. SHGC	Assembly Max. U	Assembly Max. SHGC	Assembly Max. U	Assembly Max. SHGC
<i>Vertical Glazing, 0%–40% of Wall</i>						
Nonmetal framing (all) <sup>b</sup>	U-0.40		U-0.40		U-1.20	
Metal framing (curtainwall/storefront) <sup>c</sup>	U-0.50		U-0.50		U-1.20	
Metal framing (entrance door) <sup>a</sup>	U-0.85	SHGC-0.40	U-0.85	SHGC-0.40	U-1.20	SHGC-NR
Metal framing (all other) <sup>e</sup>	U-0.55	all <sup>d</sup>	U-0.55	all <sup>d</sup>	U-1.20	all
	<u>0.40</u>		<u>0.40</u>			

<sup>a</sup>Consistent with 2010 Georgia Amendments to Table 502.3 of the 2009 IECC, maximum SHGC is 0.40 for residential and nonresidential buildings in climate zone 4, regardless of Projection Factor.

(Remainder of table and footnotes are unaffected by this amendment.)

**PROPONENT:** Eric Lacey

**NOTES:** 04.20.10: Proponent submitted amendment to make ASHRAE 90.1 more consistent with the IECC amendments as requested by the task force.

04.22.10: D

**(2009-IECC-32)**

		ACTION: AS AR D F			
<b>CODE SECTION:</b>	<b>503.3.1 (1)</b>				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b>					
Table 503.3.1(1)					
Economizer Requirements					
Change Table verbiage					
From: Economizer on all cooling systems > <del>54,000 Btu/h</del>					
To: Economizer on all cooling systems > <u>65,000 Btu/h</u>					
<u>For new construction:</u>					
<u>Allowed Control Types: Fixed, Electronic, and Differential Enthalpy</u>					
<u>Economizer enthalpy Hi-Limit control settings shall not be greater than 10% below space design conditions.</u>					
<b>PROPONENT:</b> Darrell Howell					
<b>NOTES:</b> <u>03.11.10:</u> AS					
<u>04.21.10:</u> Proponent submitted additional clarification to original approved amendment. Highlighted language to be voted on at the 04.22.10 meeting. <u>04.22.10:</u> AR					

**(2009-IECC-32.1)**

		ACTION: AS AR D F			
<b>CODE SECTION:</b>	<b>503.3.1</b>				
<b>PROPOSAL TYPE:</b>	Revision				
<b>PROPOSAL:</b> Revise section to add exceptions to read as follows:					
<u>Exception 3. Computer Room Applications</u>					

Exception 4. Systems that serve spaces whose sensible cooling load at design conditions, excluding transmission and infiltration loads, is less than or equal to transmission and infiltration losses at an outdoor temperature of 60 degrees F.

Exception 5. Systems that operate less than 20 hours per week.

**PROPONENT:** Darrell Howell

**NOTES:** 04.21.10: Proponent submitted amendment to further clarify Item #32. To be voted on at the 04.22.10 meeting. 04.22.10: AS

(2009-IECC-33)

		ACTION:	AS	AR	<b>D</b>	F
<b>CODE SECTION:</b>	<b>503.2.4.1.2</b>					
<b>PROPOSAL TYPE:</b>	Addition					
<b>PROPOSAL:</b>						
<del>Add new Section 503.2.4.1.2 to the 2008 Georgia Amendment to read as follows:</del>						
<del><b>503.2.4.1.2 Primary Heat Source.</b> For new commercial dwelling unit (classified as structures four stories or higher and two or more units) central HVAC systems, or replacement HVAC systems installed in dwelling units that were originally permitted after January 1, 1996, electric resistance heat shall not be used as the primary heat source. Primary heat source is defined as the heat source for the original dwelling unit system.</del>						
<del><b>Exception:</b> Alterations or additions of 50% or less than the original conditioned floor area.</del>						
<b>PROPONENT:</b> Jeff Ross-Bain						
<b>NOTES:</b> <u>03.11.10:</u> Item was tabled for review by Work Group on <u>04.19.10.</u>						
<u>04.19.10:</u> Work Group recommends disapproval. <u>04.22.10:</u> D						

(2009-IECC-34)

		ACTION:	AS	AR	D	F	<b>W</b>
<b>CODE SECTION:</b>	<b>504.2.1</b>						
<b>PROPOSAL TYPE:</b>	Addition						
<b>PROPOSAL:</b>							
<del><b>504.2.1 Hot water circulating system required.</b> In group R 1, R 2, R 3, and R 4 occupancies, where the furthest fixture requiring hot water is greater than 15 feet (4572 mm) in developed pipe length from the outlet of the source of hot water, a hot water circulating system shall be installed on the hot water distribution system. The circulating system shall be designed to make hot water available in the hot water distribution system at point that is not greater than 15 feet (4572 mm) in developed pipe length from the fixture requiring hot water. The circulating system pump shall be controlled by a demand switch. Where point of use water heaters are provided for fixtures, a hot water circulating system shall not be required.</del>							
<b>PROPONENT:</b> Mike Ashley (representing: Edward L. Jackson)							
<b>NOTES:</b> Companion proposal (Item #25) has been approved with revisions. Group R2, R3 and R4 occupancies are outside the scope of Chapter 5.							
<u>03.11.10:</u> Proponent withdrew this proposed amendment. Concerns were raised by task force members regarding clarifying a companion amendment to Chapter 4 that was approved on 02.17.10. Item 2009-IECC-25 will be on the agenda for clarification on <u>04.22.10.</u>							

(2009-IECC-35)

		<b>ACTION:</b>				<b>AS</b>	<b>AR</b>	<b>D</b>	<b>F</b>
<b>CODE SECTION:</b>	Chapter 1								
<b>PROPOSAL TYPE:</b>	Addition								
<b>PROPOSAL:</b>									
<del>Local governments in the State of Georgia, choosing to enforce the International Energy Conservation Code as adopted and amended by the Department of Community Affairs, shall be authorized to levy a deposit, for each permit, in an amount to be determined by the jurisdiction, which is to be held as a deposit against the successful passage of a building energy efficiency inspection. The local government may choose to retain up to 20% of deposit to cover the cost of implementation and enforcement of the IECC. The remainder of the deposit shall be returned to the developer/builder upon the determination of successful compliance with the IECC and all Georgia Supplements and Amendments.</del>									
<b>PROPONENT:</b> BCAP									
<b>NOTES:</b> <u>03.11.10</u> : Failed for lack of motion.									

(2009-IECC-36)

		<b>ACTION:</b>				<b>AS</b>	<b>AR</b>	<b>D</b>	<b>F</b>
<b>CODE SECTION:</b>	Appendix F (NEW)								
<b>PROPOSAL TYPE:</b>	Addition								
<b>PROPOSAL:</b> Add new Appendix F to read as follows:									
<b><u>APPENDIX F</u></b>									
<b><u>THIRD PARTY VERIFICATION</u></b>									
<b><u>SECTION F101</u></b>									
<b><u>GENERAL</u></b>									
<b>F101.1 Scope.</b> The provisions of this appendix govern the requirements for third-party verification of this code.									
<b>F101.2 Adoption.</b> The authority having jurisdiction may adopt this appendix to utilize third-party verification of this code.									
<b><u>SECTION F102</u></b>									
<b><u>DEFINITIONS</u></b>									
<b><u>THIRD-PARTY VERIFIER.</u></b> An independent person or firm responsible for conducting inspections and/or testing and plan review to verify a project's compliance with the provisions of this code.									

### SECTION F103 QUALIFICATIONS

**F103.1 General.** It shall be the responsibility of the permit holder to retain a qualified *third-party verifier*. The *third-party verifier* shall not be an employee of the owner or builder or have a financial interest in the project.

**F103.2 Residential buildings.** Third-party verifiers shall have one of the following minimum qualifications to conduct inspections or plan review for the energy efficiency provisions of *residential buildings* as defined by this code:

1. Accredited HERS Rater
2. ICC Residential Energy Inspector/Plans Examiner Certification
3. EarthCraft House Technical Advisor
4. Building Performance Institute (BPI) Analyst
5. Equivalent qualifications as approved by the local code official

**Exception:** Where the specific provisions of this code require additional qualifications.

**F103.3 Commercial buildings.** Third-party verifiers shall have one of the following minimum qualifications to conduct inspections or plan review for the energy efficiency provisions of *commercial buildings* as defined by this code:

1. ICC Commercial Energy Inspector and ICC Commercial Plans Examiner Certifications
2. Equivalent qualifications as approved by the local code official

**Exception:** Where the specific provisions of this code require additional qualifications.

### SECTION F104 INSPECTIONS

**F104.1 General.** Construction or work, conducted under the provisions of this code, for which a permit is required shall be subject to inspection by a *third-party verifier*.

**F104.2 Inspection requests.** It shall be the duty of the permit holder or their duly authorized agent to notify the *third-party verifier* when work is ready for inspection and to provide access to and means for inspection of such work required by this code.

**F104.3 Fees.** The permit holder shall be responsible for all fees charged by the *third-party verifier*.

**F104.4 Residential buildings.** A minimum of two inspections shall be conducted for each residential building. The first inspection shall be conducted prior to the closing-up of building cavities; and shall include verification of compliance with the following: insulation, fenestration, air sealing and duct insulation and sealing. The second inspection shall be conducted after the

building has been substantially completed and prior to issuance of a certificate of occupancy. The second inspection shall include verification of compliance with any portions of this code not verified during the first inspection.

**F104.5 Commercial buildings.** A minimum number of inspections as determined by the *third-party verifier* shall be conducted to ensure verification of compliance with the provisions of Chapter 5 of this code or ASHRAE 90.1.

**F104.6 Re-inspection.** A building shall be re-inspected when determined necessary by the *third-party verifier* or *local code official*.

**F104.7 Approval report.** Inspection and verification reports shall be submitted by the *third-party verifier* to the *local code official*.

**PROPONENT:** DCA/Referred from RGBC Task Force (Ryan Meres will speak on this proposal)

**NOTES:** 03.11.10: Item tabled for review by Work Group on 04.19.10.  
04.19.10: Work Group recommends approval. 04.22.10: AR