

MINUTES
2015 International Energy Conservation Code Task Force
Sixth Meeting
May 9, 2017, 10:00 A.M.

Call to order- Chairman, Joel Rodriguez called the meeting to order at 10:00 A.M. by welcoming and introducing Task Force members, Department of Community Affairs (DCA) staff, and guests. (See the last page of the minutes for a list of attendees).

Handouts- The following handouts were submitted prior to the meeting (Copies are available upon request.)

1. Air Barrier and Insulation Installation Component Guide submitted by Southface
2. Energy Code Compliance Certificate submitted by Lauren Westmoreland, SEEA
3. American Architectural Manufacturers Association (AMMA) opposing:
 - DCA #48, Section C402.4 (including deletion of C402.4.1.1 through C402.4.3.2)
 - DCA #52, Deletion of Section C405.2.3 and its subsections
4. Fenestration Manufacturers Association (FMA) opposing:
 - DCA #47, Table C402.1.3
 - DCA #48, Section(s) C402.4 - C402.4.3.2
 - DCA #52, Section(s) C405.2.3- C405.2.3-405.2.3.2-C405-2-3-3
5. Howard Katzman, Georgia Building Performance Association opposing:
 - C402.5.3
 - R402.4.4

Approval of Minutes- The minutes from the April 18, 2017, Task Force meeting were reviewed.

A motion was made by Scott Walters and seconded by Mike Barcik to add "latent heat evaporation" to the Cooling Tower definition to read as follows:

CHAPTER 2 [CE] DEFINITIONS – C202

- Add new definition for 'Cooling Tower' to read as follows:
COOLING TOWER. A building heat removal device used to transfer process heat waste removal to the atmosphere through latent heat of evaporation.

Motion Carried Unanimously

A motion was made by Lauren Westmoreland and seconded by Ryan Taylor to revise R401.3 Certificate, to read as follows:

CHAPTER 4 [RE] RESIDENTIAL ENERGY EFFICIENCY

- Revise Section 401.3, 'Certificate', by revising the first sentence and adding at the end as follows:
401.3 Certificate. A permanent certificate shall be posted on or near the electrical distribution panel or air handler. The certificate shall be...
(Middle of section left unchanged.)
...water heating equipment. The certificate shall also list the calculated heating load, sensible cooling load, latent cooling load and cfm for space conditioning. The certificate shall also list the duct tightness and envelope tightness test results. (Remainder of section left unchanged)

Motion Carried Unanimously

*A motion was made by Lauren Westmoreland and seconded by Ryan Taylor to remove R401.3 Certificate, from the consent agenda for further discussion. **Motion Carried Unanimously***

A motion was made by Mike Barcik and seconded by Neal Davis to revise R402.3.4 Opaque door exemption to read as follows:

R402.3.4 Opaque door exemption. One side-hinged opaque door assembly up to 24 square feet (2.22 m²) in an area is exempted from the U-factor requirement in Section R402.1.4. This exemption shall not apply to Attic Access Doors or the U-factor alternative approach in Section R402.1.4 and the total UA alternative in Section R402.1.5.

Motion Carried Unanimously

- There was a discussion on the size of the passage to the HVAC system in the attic as referenced in the International Residential Code under M1305.1.3. The committee will make a recommendation to the future residential code Task Force to consider increasing the size of the passage.
- There was a discussion on deleting, replacing and renaming the Appendices.

*A motion was made by Ryan Taylor and seconded by Mike Barcik to accept the fifth meeting minutes with the above changes as a consent agenda for discussion on the 2011 and 2012 GA amendments which would be carried forward. **Motion Carried Unanimously***

Chairman Rodriguez opened the floor for discussion. There was no further discussion. The approved minutes would be the code sections to carry forward from the 2011 and 2012 GA amendments.

Duct and Envelope Tightness- Energy Rating Index (DET-ERI) Subcommittee Update- Ryan Taylor, chairman of the subcommittee, explained the scope of the work of the subcommittee. He updated the Task Force on the discussion of the amendments pertaining to the DET and ERI subjects and the voting result on those amendments.

A motion was made by Ryan Taylor and seconded by Elaine Powers to add ANSI/RESNET 380-2016 to the testing standards.

LUNCH BREAK. The Task Force broke for lunch (11:45 A.M. - 12:45 P.M.)

Mike Barcik and his colleagues from Southface presented a draft for Appendix "A" Air Sealing Key points to the Task Force and asked for any comments or suggestions from the members and interested parties.

Chairman Rodriguez pointed out the importance of this appendix for building officials and industry. He requested Southface provide a new appendix with duct sealing illustrations similar to Air Sealing Key Points.

Approval of Minutes- The minutes from the April 25, 2017, second subcommittee meeting were reviewed.

*A motion was made by Mike Barcik and seconded by Ryan Taylor to add the word "Mandatory" to R402.1.6 Compliance Alternative Constraints. **Motion Carried Unanimously***

A motion was made by Neal Davis and seconded by Mike Barcik to revise Table R402.1.2 and Table R402.1.4 as follows:

Revise Table R402.1.2,

Fenestration U-Factor for climate zone 2 to read as 0.35

Skylight U-Factor for climate zone 2 to read as 0.55

Revise Table R402.1.4,

Fenestration U-Factor for climate zone 2 to read as 0.35

Skylight U-Factor for climate zone 2 to read as 0.55

Revise the title of the columns: Ceiling U-Factor, Crawl Space Wall U-Factor

Motion Carried Unanimously

A motion was made by Ryan Taylor and seconded by Mike Barcik to amend the definition of R402.4.1.2 Testing to read as follows:

R402.4.1.2 Testing. All one and two-family dwelling units shall be tested and verified to less than six air changes per hour at 50 Pascals (ACH50) for Climate Zones 2, 3, and 4.

One year after the effective year of the GA Energy Code, all one and two-family dwelling units shall be tested and verified to less than five air changes per hour at 50 Pascals (ACH50) for Climate Zones 2, 3, and 4.

Motion Carried Unanimously

Chairman Rodriguez opened the floor for discussion of the second subcommittee minutes.

A motion was made by Ryan Taylor and seconded by Mike Barcik to revise R402.4.1.2 to read as follows:

R402.4.1.2 Testing. Testing shall be conducted in accordance with ASTM E 779, ASTM E 1827 or ANSI/ICC/ RESNET 380-2016 and reported at a pressure of 0.2-inch w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party, a written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope. Testing shall be conducted by a certified duct and envelope tightness (DET) verifier.

Motion Carried Unanimously

*A motion was made by Ryan Taylor and seconded by Mike Barcik to accept the minutes with the above changes as a consent agenda for discussion on the DET- ERI pertaining amendments. **Motion Carried Unanimously***

Item 37 - R402.2.1 Ceilings with attic spaces:

*A motion was made by Neal Davis and seconded by Ryan Taylor to approve Item 37, R402.2.1 Ceilings with attic spaces. **Motion Carried Unanimously***

Item 38 – R402.2.14 Insulation Installation Details:

*A motion was made by Ryan Taylor and seconded by Elaine Powers to disapprove Item 38, R402.2.14 Insulation Installation Details. **Motion Carried Unanimously***

*A motion was made by Lauren Westmoreland and seconded by Mike Barcik to include the language of Item 38, R402.2.14 Insulation Installation Details into the pertaining appendix. **Motion Carried Unanimously***

Item 40 - R402.4.4 Rooms containing fuel-burning appliances:

*A motion was made by Ryan Taylor and seconded by Lauren Westmoreland to disapprove Item 40, R402.4.4 Rooms containing fuel-burning appliances. **Motion Carried Unanimously***

Item 41 - R403.3.6 Ducts buried within ceiling insulation:

*A motion was made by James Martin and seconded by Ryan Taylor to disapprove Item 41, R403.3.6 Ducts buried within ceiling insulation. **Motion Carried Unanimously***

Item 42 - Table R405.5.2 (1) Specifications for the Standard Reference and Proposed Designs:

*A motion was made by Lauren Westmoreland and seconded by Neal Davis to disapprove Item 42, Table R405.5.2 (1). **Motion Carried Unanimously***

Item 46 - Appendix RA:

*A motion was made by David Hirsch and seconded by Elaine Powers to approve Item 46, to delete Appendix RA. **Motion Carried Unanimously***

Item 64 - R403.3.6 Joints, Seams, and Connections:

A motion was made by Neal Davis and seconded by Mike Barcik to revise and approve Item 64, R403.3.6 Joints, Seams and Connections to read as follows:

Crimp joints for round metallic ducts shall have a contact lap of not less than 1 ½" inch (38 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws or rivets equally spaced around the joints. (Remainder of section left unchanged)

Motion Carried Unanimously

Item 65 - R403.3.2 Sealing (Mandatory):

A motion was made by Neal Davis made and seconded by Mike Barcik to revise and approve Item 65, R403.3.2 Sealing (Mandatory) to read as follows:

R403.3.2 Sealing (Mandatory). Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with section R403.3.6 of these Georgia State Supplements and Amendments

Exceptions:

1. Air-impermeable spray foam product shall be permitted to be applied without additional joint seals.
2. For ducts having a static pressure classification of less than 2 inches of water column (500 Pa), additional closure systems shall not be required for continuously welded joints and seams, and locking-type joints and seams of other than the snap-lock and button-lock types.
3. 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.
4. Sealing that would void product listings is not required.

Motion Carried Unanimously

OLD BUSINESS. There was no further old business.

NEW BUSINESS. There was no new business.

CONCLUSION OF MEETING

- Chairman Rodriguez announced the next scheduled meeting is June 15, 2017.
- During the June 15 meeting, Commercial Chapters and all other amendments will be discussed.
- No further business or discussion. The meeting adjourned at 4:10 P.M.

Attendees

Task Force Members Present: Joel Rodriguez, Ryan Taylor, Stephen Adams, Mike Barcik, Kelly Cutts, Neal Davis, James Martin, Elaine Powers, John Pruitt, Max Rietschier, Scott Walters, and Lauren Westmoreland.

Task Force Members Absent: Ron Anderson, Mark Gallman, Jim Moody and Andrea Papageorge.

Staff Members Present: Ted Miltiades, Seti Ordoobadi, Bill Towson, Matt McConnell, Soli Nicolson and Austin Dyer.

Guests: Bourke Reeve, Southface; Jeffery Sauls, Energy Vanguard; Brian Shanks, Beazer Homes; Charles Cottrell, NAIMA; Eric Lacey, RECA; Amanda Hickman, ICI; Kelly Lass, HBAG; Abe Kruger, SK Collaborative; Phil Brown, ICYNENE; Brian Griffin, Pat Griffin, Quality Air Inc.; Shan Arora, Southface; Bettie Sleeth, HBAG; Don Willis, Smart Energy Solutions; Allison A. Bailes, Energy Vanguard; Joe Medosch, Energy & Environmental Consulting; Nick Wortel, APA; Charles Roy, GABPA, GSES; Jeremy Field, Imery Group; Roger LeBrun, Velux America; Loyd Fasselt, City of Acworth; Austin Hackney, HBAG;

End of Minutes.