Webex Meeting Link

May 19, 2022
2:00 PM EST to 5 PM EST (3 hours)

Committee Chair: JC Hudgison, CBO, Assoc. AIA
Committee Vice Chair: Bridget Herring & Robin Yochum, LEED Green Associate

1. Call to order.

2. Meeting Conduct.
    a. Identification of Representation/Conflict of Interest
    b. ICC Council Policy 7 Committees: Section 5.1.10 Representation of Interests
    c. ICC Code of Ethics

REPI-145-21 (Alterations duct leakage testing)	(Existing Bldg a modified 6-0)
REPI-158-21 (Renewable Energy Documentation)	(Electrical as modified 14-0-1)
REPI-111-21 (Electrification)	(Electrical as modified 10-3-1)
RECPI-8-21 (CO2 Index proposal)	(Modeling approve 11-2-2)
REPI-163-21 (Zero Energy Appendix)	(Modeling approve 13-2-2)
REPI-162-21 (Net zero climate zone 0 value)	(Modeling disapprove 17-0-0)

9. Other business.

10. Upcoming meetings. May 26 at 2 PM EST

11. Adjourn.

FOR FURTHER IECC Residential INFORMATION BE SURE TO VISIT THE ICC WEBSITE:
IECC Residential Website

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

Kristopher Stenger, AIA, CBO
Director of Energy Programs
International Code Council
kstenger@iccsafe.org

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REPI-039-21 Attic knee or pony wall
CDP ID #	375
Code	IECC RE
Code Section(s)	R402.2.3 (New), Table R402.4.1.1 (New), TABLE R405.2, TABLE R406 New Section y
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	

Vote	Affirmative__________ Negative___________ Table____________ To Subcommittee_________________________
Date	

REP-39 Knee Wall and New Rim Joist section- Edited based on recommendations of the Subcommittee and the SEHPCAC editing workgroup

Definition

Knee wall – An *above-grade wall* assembly, or wall defined by vertical truss members, of any height that separate conditioned space from unconditioned buffer spaces, such as ventilated attics, entry porch roofs, etc., rather than ambient outdoors.

R402.2.3 (N1102.2.3) Attic knee or pony wall. d m e

~~or diagonal surfaces that are 1 foot (305 mm) or less in height into a ventilated attic~~ shall be ~~buried with insulation to maintain the ceilings required R-~~value

Table R402.4.1.1

AIR BARRIER, AIR SEALING AND INSULATION INSTALLATION [a]

COMPONENT	AIR BARRIER, AIR SEALING CRITERIA	INSULATION INSTALLATION CRITERIA
Knee ~~or pony~~ wall~~s~~	Knee ~~or pony~~ walls shall have a sealed air barrier between conditioned and unconditioned space. ~~and shall be sheathed on the attic or unconditioned side of the assembly.~~ ~~be constructed to have a sealed air barrier on six sides of the wall assembly including to the unconditioned side of the assembly.~~	Insulation installed in a knee ~~or pony~~ wall assembly shall ~~be~~ meet the same insulation requirements as above-grade walls. ~~installed in accordance with Section R402.2.3~~
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. ~~Knee walls shall be sealed.~~	Cavities within corners and

Revise as follows:

R402.2.6 (N1102.2.6) Steel-frame ceilings, walls and floors.

Steel-frame ceilings walls and floors shall comply with the ~~insulation requirements of Table R402.2.6 or the~~ *U*-factor requirements of Table R402.1.2. The calculation of the *U*-factor for ~~a~~ steel-framed ceilings and walls in an envelope assembly shall ~~use a series-parallel path calculation method~~ be determined in accordance with AISI S250 as modified herein.

a. Where the steel-

~~R-20+5~~	~~R-13 + 11.5 or R-15 + 10.9 or R-19 + 10.1 or R-21 + 9.7 or R-25 + 9.1~~
~~R-21~~	~~R-0 + 14.6 or R-13 + 8.3 or R-15 + 7.7 or R-19 + 6.9 or R-21 + 6.5 or R-25 + 5.9~~
~~Steel Joist Floor~~	
~~R-13~~	~~R-19 in 2 x 6, or R-19 + 6 in 2 x 8 or 2 x 10~~
~~R-19~~	R-19 + 6 in 2 x 6, or R-19 + 12 in 2 x 8 or 2 x 10

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	IRCP-001-21 steel ceilings and walls
CDP ID #	157
Code	IRC
Code Section(s)	N1102.2.6, TABLE N1102.2.6 New Section
Location	base
Proponent	Jonathan Humble Jhumble@steel.org
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Alison Lindberg also presented version in IRC language. Reason same as previous.
Recommendation	Motion to Approve as modified A. Lindberg/A. Hickman

~~R-13+10~~	~~R-0 + 20 or R-13 + 13 or R-15 + 12 or R-19 + 11 or R-21 + 11~~
~~R-20~~	~~R-0 + 14.0 or R-13 + 7.7 or R-15 + 7.1 or R-19 + 6.3 or R-21 + 5.9~~
~~R-20+5~~	~~R-13 + 11.5 or R-15 + 10.9 or R-19 + 10.1 or R-21 + 9.7 or R-25 + 9.1~~
~~R-21~~	~~R-0 + 14.6 or R-13 + 8.3 or R-15 + 7.7 or R-19 + 6.9 or R-21 + 6.5 or R-25 + 5.9~~
~~Steel Joist Floor~~	
~~R-13~~	~~R-19 in 2 x 6, or R-19 + 6 in 2 x 8 or 2 x 10~~
~~R-19~~	~~R-19 + 6 in 2 x 6, or R-19 + 12 in 2 x 8 or 2 x 10~~

~~The first value is cavity insulation *A*-value; the second value is continuous insulation *A*-value. Therefore, for example,~~

b. ~~"R-30 + 3" means R-30 cavity insulation plus R-3 continuous insulation.~~

b. ~~Insulation exceeding the height of the framing shall cover the framing.~~

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REP-068-21 Cool Roofs
CDP ID #	425
Code	IECC RE
Code Section(s)	R402.6 (New), R402.6.1 (New), TABLE R405.4.2(1), R503.1.1, R407.2 New Section y
Location	base
Proponent	Elizabeth McCollum iecc-cool-roof@2050partners.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Support for reducing heat island effect. Complimented the proponent o

Committee Response	
Vote	Affirmative___________Negative____________ Table_____________ To Subcommittee___________________________
Date	

International Energy Conservation Code

Code Change Proposal Tracking Sheet

Proposal #	REPI-078-21 Distribution System Efficiency
CDP ID #	461
Code	IECC RE
Code Section(s)	R403.3.1, TABLE R405.4.2(1), New Section
Location	base
Proponent	David Springer iecc-ducts2@2050partners.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Presented WG Chair David Bixby motion to accept presented to the

Vote	Affirmative__________Negative___________ Table____________ To Subcommittee_________________________
Date	

REPI-78-21

IECC®: SECTION 202, R403.3.1, TABLE R405.4.2(1)

Proponents:
David Springer, representing on behalf of the California Statewide Utility Codes and Standards Team (ieccducts2@2050partners.com); Mark Lyles, representing New Buildings Institute (markl@newbuildings.org)

Revise as follows:
IECC2021P1E_RE_Ch02_SecR202_DefTHERMAL_DISTRIBUTION_EFFICIENCY_TDE_ ~~THERMAL~~ DISTRIBUTION SYSTEM EFFICIENCY (~~TDE~~ DSE). ~~The resistance to changes in air heat as air is conveyed through a distance of air duct. TDE is a heat loss calculation evaluating the difference in the heat of the air between the air duct inlet and outlet caused by differences in temperatures between the air in the duct and the duct material. TDE is expressed as a percent difference between the inlet and outlet heat in the duct.~~ The ratio of the thermal energy transferred to or from the conditioned space to the thermal energy transferred at the equipment distribution system heat exchanger. Energy delivered to or from the conditioned space includes distribution system losses to the conditioned space.

International Energy Conservation Code

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Committee Response	
Vote	Affirmative__________Negative___________ Table____________ To Subcommittee_________________________
Date	

REPI 145-21

Modify the section as follows:

R502.3.2 Heating and cooling systemsHVAC ducts newly installed as part of an addition shall comply

d p o

Reason

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal # REPI

REPI-158 Revision

Revise definition as follows:

RENEWABLE ENERGY CERTIFICATE (REC): A~~n~~ market-based instrument that represents and conveys the environmental, ~~social, and other non-power~~ attributes of one megawatt hour of renewable electricity generation and could be sold separately from the underlying physical electricity associated with renewable energy resources ~~energy~~; also known as an energy attribute and energy attribute certificate (EAC).

Revise as follows:

SECTION R404 ELECTRICAL POWER

(Staff Note: RECs or EACs associated with renewable energy not used to comply with this code are not required to be retired or retained on behalf of the property owner.)

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REPI111-21 Electrification
CDP ID #	125
Code	IECC RE

R404.4 Electric readiness.
Systems using fossil fuel:

International Energy Conservation Code

Code Change Proposal Tracking Sheet

Proposal #	RECP8-21 CO2e Index
CDP ID #	
Code	IECC RE
Code Section(s)	R401.3 & R406.7.2.2
Location	Base
Proponent	Gayathri Vijayakumar
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECP8-21 was submitted by Econ subcommittee member Gayathri Vijayakumar introducing the CO2e Index as a component of R401 & R406
Recommendation	Approve As Submitted Motion: Gayathri Vijayakumar, 2nd Robert Salcido Reason Statement: The subcommittee determined there was benefit in adding a metric to the Certificate (R401.3) that demonstrates GHG emissions. There was modest opposition due to adding an unenforceable metric with uncertain value. After healthy discussion the Econ SC voted largely in favor of including a CO2e index when utilizing the R406 ERI Compliance Alternative
Vote	Approve 11-2 (2 Abstain,5 Not Present)
Recommendation Date	5-11-22
Next Step	To Subcommittee____________________________________ To Advisory Group____________________________________ To Consensus Committee_____X_____________
Consensus Committee	
Committee Response	

Vo.003 Tc 0.005 Tw 9 -0 2.7 (o.003 Tc 0.005 T1 0.003 Tw 9 -0 0 9pons)-9.7 (e)]TJ 06e f BDC Tm .6 re W 8 rq 2/TT1 1 Tf 9 -0 0 9 20.0

5. Documentation of all inputs entered into the software used to produce the results for the reference design and/or the rated home.
6. A final confirmed certificate indicating that the confirmed rated design of the built home complies with Sections R406.2 and R406.4. The certificate shall report the energy features that were confirmed to be in the home, including: component-level insulation R-values or U-factors; results from any required duct system(t)2.3 (e)2c -

Attached Files:
Until ANSI 301-2022 is published, this approved Addendum D to ANSI 301-2019 is being shared, to provide context for the CO2e Index, which will be modified by Addendum B above.
https://www.resnet.us/wp-content/uploads/FS_301-2019AdndmD_webpost.docx

International Energy Conservation Code

Code Change Proposal Tracking Sheet

Proposal #	REPI-163-21 Appendix RC
CDP ID #	186
Code	IECC RE
Code Section(s)	RC102.2 table
Location	Base
Proponent	Kim Cheslak, NBI; Lauren Urbanek, NRDC
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	Diana Burk presented on behalf of Kim Cheslak and Lauren Urbanek who were unable to attend the SC meeting. Proposal is to modify the ERI scores in Table RC102.2 to reflect PHIUS certified projects
Recommendation	Approve As Modified Motion: Diana Burk, 2nd Amy Boyce Reason Statement: After discussion it was determined the PHIUS values submitted by Climate Zone were overly stringent. The subcommittee felt a more realistic value was warranted where a friendly modification by Gayathri Vijayakumar, to set the ERI values across all Climate Zones at 42, was accepted by both Diana Burk and Amy Boyce. The subcommittee agreed voting in favor of the modification.
Vote	Approve As Modified 13-2 (2 Abstain, 3 Not Present)
Recommendation Date	5-11-22
Next Step	To Subcommittee________________________________ To Advisory Group________________________________ To Consensus Committee______X___________
Consensus Committee	
Committee Response	
Vote	Affirmative__________ Negative___________ Table____________ To Subcommittee_________________________
Date	

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