



International Code Council IECC Commercial Consensus Committee Draft Meeting Minutes

Meeting Date: January 11, 2023

Committee Chair: Duane Jonlin

Committee Vice Chair: Emily Hoffman

1. Call to order. The meeting was called to order at approx. 2:01 pm Eastern Time.

2. Roll Call. Chair Duane Jonlin, Vice-Chair Emily Hoffman, Ali Alaswadi, John Bade, Jack Bailey, Diana Burk, Richard Burton, Payam Bozorgchami, Zepherinus Church Norbert, Chris Clausing, Jay Crandell, Thomas Culp, Greg Eades, Charles Eley, Drake Erbe, Anthony Floyd, Stephen Harris, Bryan Holland, Greg Johnson, Michael Jouaneh, Andrew Klein, Vladimir Kochkin, Emily Lorenz, Hope Medina, Michele Melley, Don Mock, Susan Musngi, Christopher Perry (alt), Laura Petrillo-Groh, Darren Port, Douglas Powell (alt), Kevin Rose, Michael Rosenberg (alt), Steve Rosenstock, Robert Ross, Blake Shelide, Michael Tillou, Amin Tohmaz, Michael Waite

Committee members in attendance: (37 in attendance 8 absent)

Not in attendance: Gina Bocra (alt), Paula Cino (alt), Glenn Heinmiller (alt), Lauren Urbanek (alt), Amber Wood (alt), Vincent Martinez (alt), Kim Cheslak (alt), Scott Brooks, Shannon Corcoran, Matt Belcher, Dan Nall, Melissa Moseley, James Yeoman, John Dalzell, David Goldstein, Jeremy Williams

ICC Staff in attendance:

Kris Stenger, Mike Pfeiffer, Ed Wirtshoreck, Beth Tubbs, Jason Toves, Jerica Stacey

3. Approval of the Minutes from 12/14-discussion related to the reason statement on CED-188-22 which was objected to by AHRI. Chair Jonlin offered a modification to note the objection of AHRI. The vote to approve the minutes with this modification failed 11-16. Motion was then made to approve the minutes as provided and the motion passed 27-2.

4. Approval of Agenda- no changes requested to the agenda

5. Administrative items-none at this time

6. Action Items

a) CED1-137-22 (Thermal bridging clarifications) Proponent Bob Zabcik. Introduction by Tom Culp, chair of Envelope SC. Recommendation by subcommittee is to disapprove. Vote to

disapprove passes 27-0. Reason: The proposal recommends changes to C402.7, exception number 2, that significantly alters the original intent.

b) CED1-139-22 (Cladding supports exception) Proponent Theresa Weston. Introduction by Tom Culp, chair of Envelope SC. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 28-0-1. Reason: This modification clarifies that thermal bridging in curtainwall and window wall is considered in the fenestration section of the thermal bridging provisions (i.e. they are not exempt from thermal bridging mitigation requirements), while still excepting curtainwall and window wall anchoring systems from the provisions dealing with linear thermal bridging for cladding attachment. Including this exception for anchoring systems is important to avoid confusion with other provisions or standards that consider curtainwall and window wall under the category of cladding.

c) CED1-138-22 (Cladding supports exception) Proponent Theresa Weston. Introduction by Tom Culp, chair of Envelope SC. Recommendation by subcommittee is to approve as modified. Additional modification to remove the word “structural” passes 18-10. Reason that thermal break device doesn’t have to be structural. Vote to approve as modified passes 28-0. Reason: The proposed wording change will make it easier for current structural thermal break products on the market to meet the thermal performance requirements.

d) CED1-107-22 (Thermal bridging) Proponent Michael Tillou. Introduction by Tom Culp, chair of Envelope SC. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 29-0. Reason: The proposed change clarifies the intent of Section C402.7.1 and adds new language that aligns with the requirements for other types of thermal bridges. It also corrects the units for chi factor.

e) CED1-135-22 (Thermal bridging moved to appendix) Proponent Greg Johnson. Introduction by Tom Culp, chair of Envelope SC. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 20-10-1. Reason: Studies performed for this committee by PNNL has shown thermal bridging is a significant contributor to energy performance degradation in buildings. Mandatory requirements for thermal bridge mitigations are needed to ensure improvements in building energy performance occur in a reasonable time frame. Moving the thermal bridging requirements to an appendix will result in an excessive delay to widespread adoption. There is sufficient time for the industry to understand and adjust the requirements of the code, especially since the performance requirement created by the thermal bridging provisions is not very stringent. Many in the architectural, engineering and construction community are pushing for these provisions to be mandatory, and are ready for them. Similar or more stringent requirements have been put in place in Seattle and British Columbia without adoption issues.

f) CED1-136-22 (Thermal bridges in above-grade walls) Proponent Vladimir Kochkin. Introduction by Tom Culp, chair of Envelope SC. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 24-6-1. Reason: Major types of thermal bridges that have a significant effect on energy performance and other factors should be mitigated in climate zone 4 because of the benefits to energy savings, resilience, durability, and comfort in much of that zone. Thermal bridging mitigation provisions have been adopted in New York City and Seattle which are also in climate zone 4. The ASHRAE 90.1 thermal bridging requirements also cover climate zones 4-8, and which also considered cost-effectiveness.

g) CED1-96-22 (ASHRAE 90.1 to thermal bridging) Proponent Martha Vangeem. Introduction by Tom Culp, chair of Envelope SC. Subcommittee did not present a recommendation. Motion by Emily Lorenz with a second from Greg Johnson to approve as submitted. Vote to approve as submitted fails 13-17-1. Motion by Hope Medina with second from Anthony Floyd to disapprove. Vote to disapprove passes 18-9-1. Reason: Referring the users of the IECC to ASHRAE 90.1 to obtain the provisions for thermal bridges does go against the concept found in C401.2 of choosing which compliance path or whether the project uses the IECC or ASHRAE 90.1 as the option. This concept would lead to less energy efficiency and compliance since end users would choose to overlook this reference because the concept is to utilize IECC or ASHRAE in its entirety.

h) CED1-97-22 (ACI/TMS Code-122.1-21 for thermal bridging) Proponent Martha Vangeem. Introduction by Tom Culp, chair of Envelope SC. Subcommittee recommendation is for disapproval. Motion to disapprove passes 24-6-1. Reason: ACI/TMS 122.1 exempts climate zone 4, so including it as an optional compliance path would create an inconsistency with the current language and prior action on CED1-136.

i) CED1-93-22 (Remove thermal bridging references) Proponent Martha Vangeem. Introduction by Tom Culp, chair of Envelope SC. Subcommittee recommendation is for disapproval. Motion to disapprove passes 27-2-1. Reason: Studies performed for this committee by PNNL has shown thermal bridging is a significant contributor to energy performance degradation in buildings. Mandatory requirements for thermal bridge mitigations are needed to ensure improvements in building energy performance occur in a reasonable time frame. Waiting 3 years for the next code update cycle is too long of a time. There is sufficient time for the industry to understand and adjust to the requirements of the code, especially since the performance requirement created by the thermal bridging provisions is not very stringent. Many in the architectural, engineering and construction community are pushing for these provisions to be mandatory, and are ready for them. Similar or more stringent requirements have been put in place in Seattle and British Columbia without adoption issues.

j) CED1-87-22 (Building thermal envelope) Proponent Jay Crandell. Introduction by Tom Culp, chair of Envelope SC. Subcommittee recommendation is for approval. Motion to approve passes 29-0. Reason: This proposal clarifies the inspection of thermal bridges, and also corrects a section title.

k) CED1-158-22 (Boiler controls) Proponent Michael Tillou. Introduction by John Bade, chair of HVACR and WH SC. Subcommittee recommendation is to approve as modified. Further modification by Greg Johnson to remove term “newly installed” fails 21-10. Motion to approve as modified passes 29-2. Reason: This proposal combines CED1-158-22 and CED1-159-22. Most of the changes are to add clarity. The 30 percent power at 50 percent speed for the fan was removed because boiler fans maintain constant pressure and do not move a long a system curve.

l) CED1-168-22 (Clarification occupied standby controls) Michael Tillou. Introduction by John Bade, chair of HVACR and WH SC. Subcommittee recommendation is to approve as modified. Motion to approve as modified passes 31-0. Reason: This modification improves the language of this section.

m) CED1-160-22 (Change HVAC systems to heating and cooling systems) proponent Mike Moore. Introduction by John Bade, chair of HVACR and WH SC. Subcommittee recommendation is to approve. Motion to approve passes 30-1. Reason: This modification improves the language of this section.

n) CED1-164-22 (Clarify DR Controls are only for electric heating and cooling) proponent Shannon Corcoran. Introduction by John Bade, chair of HVACR and WH SC. Subcommittee recommendation is to approve as modified. Motion to approve as modified passes 25-4-2. Reason: The proposal clarifies that this section only applies to electric heating and cooling systems.

o) CED1-192-22 (Renewable and load management credit update) proponent Reid Hart. Introduction by Greg Eades, chair of Modeling and Metrics SC. Subcommittee recommendation is to disapprove. Motion to disapprove fails 9-19-2. Motion to approve as submitted by Michael Tillou with a second from Emily Lorenz. Request to replace “the excess” with “surplus” by Greg Johnson. Motion to approve as modified passes 23-6-1 Reason: The adjusted renewable and load management credits proposed in CED1-192 align with the proposed prescriptive renewable energy requirements in IECC 2024.

p) CED1-194-22 (E02 15% UA reduction) Proponent Reid Hart. Introduced by Greg Eades, chair of Modeling and Metrics SC. Subcommittee recommendation is to approve. Motion to approve passes 26-2. Reason: After passage of CEPI-193, the E02 Credit (15% UA reduction) was reanalyzed based on feedback. This result is a significant increase, as an unweighted average, in credits.

q) CED1-76-22 (Additional lighting power allowance) Proponent Jonathan McHugh. Introduced by Michael Jouaneh, chair of Electrical power, lighting, renewables SC. Subcommittee recommendation is to approve as modified. Request by Greg Johnson to strike “the purpose of” in item 2.3. Motion to approve as modified passes 29-0. Reason: This proposal clarifies the existing requirements of the section. This has no impact on cost.

r) remaining items table to next meeting on 1/25

7. Subcommittee Reports-none at this time

8. Other Business-none at this time

9. Upcoming meetings. Wednesday, January 25, 2 pm-5pm Eastern.

10. Adjourn. The meeting was adjourned at approx. 5:02 pm Eastern time.

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

[IECC Commercial Website](#)

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

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