



## International Energy Conservation Code Envelope & Embodied Energy Subcommittee

### Meeting Notes

March 2, 2023  
11:00 AM to 2:00 PM EST (3 hour)

**Committee Chair:** Tom Culp, Birch Point Consulting

**Committee Vice Chair:** Emily Lorenz, IIBEC

1. **Call to order.** The meeting was called to order by Tom Culp at 11am ET
2. **Meeting Conduct** – Chair Culp reviewed the anti-trust, conflict of interest, representation of interests, and code of ethics policies.

**Roll Call/Establish Quorum** – Lorenz reported establishment of quorum (15 – quorum at start)

Name	Organization		Name	Organization	
*Culp, Tom (chair)	Glazing Industry Code Cmte; Aluminum Extruders Council	X	Guttman, Maureen	Energy Solutions	X
*Lorenz, Emily (vice chair)	Intl Inst of Building Enclosure Consultants	X	Humble, Jonathan	Amer Iron & Steel Institute	X
Altenhofen, David	RWDI		*Johnson, Greg	Natl Multifamily Housing Council	X
*Belcher, Matt	Enhanced Bldg Systems	X	*Kochkin, Vladimir	National Association of Homebuilders	X
Bradley, Jeff	American Wood Council	X	Melley, Michele	State of CT	X
*Brooks, Scott	Disney		*Ross, Bob	Austin Ind. School District	X
*Burton, Richard	City of Lincoln, NE	X	Sanders, Helen	Façade Tectonics Inst.	X
Cinnamon, Tony	Wiss, Janney, Elstner		Spiriev, Bistra	GA Finance & Investment	
*Churchill Norbert, Zepherinus	CARICOM	X	*Tillou, Mike	PNNL	X
*Clausing, Chris	Clausing Builders	X	VanGeem, Martha	Masonry Alliance for Codes and Standards	X

*Crandell, Jay	American Chemistry Council's Foam Sheathing Coalition	X	Weston, Teri	Air Barrier Assoc of Amer.	
DeWein, Mike	North Branch Services	X	Zani, Andrea	Permasteelisa	X

\*Member of main IECC Commercial Committee

3. **Assign Note Taker** Martha VanGeem
4. **Approval of Agenda** hopefully down to last two meetings.
5. **Approval of Notes** – February 16, 2023 meeting no comments. Consider them approved.
6. **Administrative issues** none.
7. **Meeting Process**
  - raise hand to be called on to speak, in order of raised hands
  - 2 min per speaker (less if you can!)
  - no me-toos or repeat testimony (but thumbs up emojis are okay)
  - time check at 20 min
8. **New Business**
9. **ACTION items**

~~CED1-120 – move airspaces exception to main paragraph~~  
**WITHDRAWN**

**CED1-121** – cool wall SRI for climate zone 0

**Motion:** Greg Johnson moves as modified. Second from Jonathan Humble. Taking out “however” in definitions.

**Modification:**

**Add new text as follows:**

**101 New Code Section.**

**north-oriented:** facing within 67.5 degrees of true north in the northern hemisphere: ~~(however, or facing within 67.5 degrees of true south in the southern hemisphere.)~~

**south-oriented:** facing within 45 degrees of true south in the northern hemisphere: ~~(however, or facing within 45 degrees of true north in the southern hemisphere.)~~

**east-oriented:** facing within 45 degrees of true east to the south and within less than 22.5 degrees of true east to the north in the northern hemisphere: ~~(however, or facing within 45 degrees of true east to the north and within less than 22.5 degrees of true east to the south in the southern hemisphere.)~~

**west-oriented:** facing within 45 degrees of true west to the south and within less than 22.5 degrees of true west to the north in the northern hemisphere: ~~(however, or facing within 45 degrees of true west to the north and within less than 22.5 degrees of true west to the south in the southern hemisphere.)~~

**Vote:** 16-0-1 CNV

**Reason:** In addition to the original reason statement, AM is editorial corrections of existing language.

**CED1-149** – exterior wall envelope terminology

Moved to after 203 due to overlap.

**Motion:** Jay Crandell/Rich Burton to approve.

**Motion to table:** Greg Johnson/Martha VanGeem to follow 203 (implied to be next meeting).

**Vote:** 14-0-1cnv

**CED1-150** – update AISI standard reference

**Motion:** Approve. Jonathan Humble/Maureen Guttman.

**Vote:** 16-0-1 CNV

**Reason:** Agreed with the proponent’s reason statement that this proposal corrected an error within the 2021 edition of the standard.

**CED1-117** – envelope backstop

**Motion:** Disapprove. Greg Johnson/Emily Lorenz

**Vote:** 9-8-1 cnv.

**Reason:** Reduces design flexibility, drives additional embodied energy, and does not save operational energy

**Lorenz takes over as chair**

**CED1-142** – fenestration / envelope backstop

**Motion:** Disapprove. Tom Culp/Martha VanGeem

**Vote:** 14-3-1 cnv

**Reason:** Restricts design flexibility without any energy savings, as the proposed building is still required to show equivalent energy performance. Therefore, does not meet cost effectiveness if increases cost without any energy savings. Also, the selected percentage is arbitrary.

**Culp resumes as chair**

**CED1-196** – envelope backstop

**Motion:** Approve. Jay Crandell/Mike Tillou.

**Vote:** 4-11-2 including cnv

**Motion:** Disapprove. Greg Johnson/Emily Lorenz

**Vote:** 13-1-2 including cnv.

**Reason:** Reduces design flexibility, drives additional embodied energy, and does not save operational energy.

**CED1-197** – roof reflectance in performance path

**Motion:** Approve. Jay Crandell /Emily Lorenz

**Vote:** 10-0-4 including cnv

**Reason:** correlate use of solar reflectance with other parts of the code.

**CED1-203** – secondary review, energy credits ← if ready from Modeling SC

**Motion:** Disapprove. Greg Johnson/Emily Lorenz.

**Motion to table** until March 16: Bob Ross /Greg Johnson.

**Vote:** 12-1-2 cnv

Tom said to reach out to people to make a modification.

#### 10. **Upcoming meetings**—first and third Thursdays of every month

- a. Mar 16, 2023, 11:00 AM to 2:00 PM ET

##### Tentative Action Items on Deck:

Unfinished items from above.

CED1-88 – exterior envelope definition

CED1-91 – glass block reference

CED1-151 – update ASTM standards

CED1-133 – air leakage testing exception. sent back for additional review of mod  
Review editorial items previously approved but held to end. Aaron to help emily.

#### 11. **Adjourn**

FOR FURTHER INFORMATION BE SURE TO VISIT THE ICC WEBSITE:

[ICC Energy webpage](#)

The monograph of Code Changes and Public Comments to the IECC Commercial Public Comment Draft #1 is posted [here](#).

An update to the IECC Commercial Public Comment Draft #1 that includes errata from staff and public comment is also [posted](#).

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

**Committee Chair:** Tom Culp, Birch Point Consulting, [culp@birchpointconsulting.com](mailto:culp@birchpointconsulting.com)

**Committee Vice Chair:** Emily Lorenz, IIBEC, [emilyblorenz@gmail.com](mailto:emilyblorenz@gmail.com)

We have started an interested-party email list for various subcommittee communications. Please contact Tom Culp to be placed on that email list.