

CEPI-212-21 (MODIFICATION)

IECC®: TABLE C407.4.1(1)

Proponents: Jay Crandell, P.E., ABTG/ARES Consulting, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

2021 International Energy Conservation Code

Modify as follows:

(shown as yellow highlighting for clarity)

**TABLE C407.4.1(1)
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

Portions of table not shown remain unchanged.

BUILDING COMPONENT CHARACTERISTICS	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Roofs	Type: insulation entirely above deck	As proposed
	Gross area: same as proposed	As proposed
	U-factor: as specified in Table C402.1.4	As proposed
	Solar absorptance: <u>Climate Zone 0, 1, 2, and 3 = 0.45 and 0.75 in all others except as specified in Table C402.3 for Climate Zones 0, 1, 2, and 3</u>	As proposed
	Emittance: <u>Climate Zone 0, 1, 2, and 3 = 0.75 and 0.90 in all others except as specified in Table C402.3 for Climate Zones 0, 1, 2, and 3</u>	As proposed

Reason for Modification: The modification doesn't change the technical intent of the proposal, but changes formatting to provide the required values for solar absorptance and emittance directly in table rather than referencing Table C402.3 for Climate Zones 0, 1, 2, and 3.

Reason Statement: This proposal aligns the standard reference design roof parameters with conditions required in the prescriptive path for roof solar reflectance and thermal emittance in Section C402.3. The prescriptive provisions are intended to serve as the basis for the standard reference design in the performance path of Section C407.

Cost Impact: The code change proposal will neither increase nor decrease the cost of construction. This proposal addresses an apparent error or omission in aligning the standard reference design with the prescriptive path which is unchanged by this proposal and is the basis of cost-effectiveness.