

2024 IECC

NBI has submitted proposals into the ICC process to advance the 2024 IECC. The proposed amendments cover a wide range of measures and improve the code by adding additional efficiency, clarifying requirements, and creating greater flexibility for code users and local jurisdictions. Learn more at newbuildings.org/code_policy/2024-iecc-national-model-energy-code-base-codes.

Code Change Title: Multifamily Alignment [Multiple] **CEPI-53-21**

Summary: Aligns requirements for multifamily buildings across commercial and residential provisions.

Add definition as follows:

CURTAIN WALL. An external non-bearing wall intended to separate the exterior nonconditioned and interior conditioned spaces consisting of any combination of framing materials, fixed glazing, opaque glazing, operable windows, or other in-fill materials.

Revise text as follows:

C402.4.3 Maximum U-factor and SHGC. [no change to base text]

Exception: Curtain wall fenestration and fenestration products certified to meet the North American Fenestration Standard/Specification for an Architectural Window (AW) in Group R occupancies shall be permitted to use the U-factors for All Other.

Revise text as follows:

C405.1.1 Lighting for dwelling units. ~~No less than 90 percent of the p~~ Permanently installed lighting serving *dwelling units*, excluding kitchen appliance lighting, shall be provided by lamps with an efficacy of not less than 65 lm/W or luminaires with an efficacy of not less than 45 lm/W, ~~or shall comply with Sections C405.2.4 and C405.3.~~

Exception: Lighting that complies with C405.2.4 and C405.3.

This combination of proposals seeks to align the requirements of multifamily dwelling units across the two sides of the code. Currently there are large discrepancies in terms of system design, control and stringency between a 3-story MF building and a 4-story MF building. This leads to market confusion, enforcement inconsistencies, and large potential untapped energy savings. This revision and its companion seek to close these gaps and create a common set of requirements for multifamily buildings.

Revise table as follows:

CLIMATE ZONE	0 AND 1		2		3		4 EXCEPT MARINE		5 AND MARINE 4		6		7		8	
Vertical fenestration																
<i>U-factor</i>																
	<u>All other</u>	<u>Group R</u>	<u>All other</u>	<u>Group R</u>	<u>All other</u>	<u>Group R</u>	<u>All other</u>	<u>Group R</u>	<u>All other</u>	<u>Group R</u>	<u>All other</u>	<u>Group R</u>	<u>All other</u>	<u>Group R</u>	<u>All other</u>	<u>Group R</u>
Fixed fenestration	0.50	<u>0.4</u>	0.45	<u>0.3</u>	0.42	<u>0.27</u>	0.36	<u>0.25</u>	0.36	<u>0.25</u>	0.34	<u>0.25</u>	0.29	<u>0.25</u>	0.26	<u>0.25</u>
Operable fenestration	0.62	<u>0.4</u>	0.60	<u>0.3</u>	0.54	<u>0.27</u>	0.45	<u>0.25</u>	0.45	<u>0.25</u>	0.42	<u>0.25</u>	0.36	<u>0.25</u>	0.32	<u>0.25</u>
Entrance doors	0.83		0.77		0.68		0.63		0.63		0.63		0.63		0.63	
SHGC																
	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable	Fixed	Operable
PF < 0.2	0.23	0.21	0.25	0.23	0.25	0.23	0.36	0.33	0.38	0.33	0.38	0.34	0.40	0.36	0.40	0.36
0.2 ≤ PF < 0.5	0.28	0.25	0.30	0.28	0.30	0.28	0.43	0.40	0.46	0.40	0.46	0.41	0.48	0.43	0.48	0.43
PF ≥ 0.5	0.37	0.34	0.40	0.37	0.40	0.37	0.58	0.53	0.61	0.53	0.61	0.54	0.64	0.58	0.64	0.58
Skylights																
<i>U-factor</i>	0.70		0.65		0.55		0.50		0.50		0.50		0.44		0.41	
SHGC	0.30		0.30		0.30		0.40		0.40		0.40		NR		NR	