

Mo,

I'm sending this email to alert you to what I think is an editorial issue in the 9th Edition integrated draft of the FL Building Code, Energy Conservation. The effects of proposals EN12127 and 12330 are not fully reflected in Table C402.5.

First, the 2024 IECC no longer applies orientation-specific SHGCs for vertical fenestration, but rather assigns requirements based on whether the fenestration is fixed or operable. Second, the SHGC values for operable fenestration in climate zone 2 still reflect the 8th edition values in the integrated draft. And third, the U-factors and SHGC requirements for skylights do not appear to be updated per the approved proposals. Thus, Table C402.5 should be adjusted as follows, which would maintain consistency with the 2024 IECC and proposals EN12127 and EN12330:

TABLE C402.5—BUILDING THERMAL ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS				
CLIMATE ZONE	0 AND 1		2	
Vertical Fenestration				
U-factor				
Fixed fenestration	0.50		0.45	
Operable fenestration	0.62		0.60	
Entrance doors	0.83		0.77	
SHGC				
<u>Orientation^a</u>	<u>SEW Fixed</u>	<u>N Operable</u>	<u>SEW Fixed</u>	<u>N Operable</u>
PF < 0.2	0.23	0.21	0.25	0.33 <u>0.23</u>
0.2 ≤ PF < 0.5	0.28	0.25	0.30	0.37 <u>0.28</u>
PF ≥ 0.5	0.37	0.34	0.40	0.40 <u>0.37</u>
Skylights				
U-factor	0.75 <u>0.70</u>		0.65	
SHGC	0.35 <u>0.30</u>		0.35 <u>0.30</u>	
NR = No Requirement, PF = Projection Factor.				
a.—“N” indicates vertical fenestration oriented within 45 degrees of true north. “SEW” indicates orientations other than “N.” For buildings in the southern hemisphere, reverse south and north. Buildings located at less than 23.5 degrees latitude shall use SEW for all orientations.				

As I understand it, there were at least two proposals related to Table C402.5 that were approved by the Commission, both of which intended to bring consistency between the 9th Edition FL Code and the 2024 IECC. Proposal EN12127 intended to make vertical fenestration and skylight U-factors consistent with the IECC, and proposal EN12330 intended to make vertical fenestration and skylight SHGCs consistent with the IECC. Both proposals were approved As Submitted.

I hope this is helpful. If you have any questions about this, please let me know.

Thanks,

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