

Table R402.1.3

Errata	2021 IECC Chapter 4 RESIDENTIAL ENERGY EFFICIENCY
--------	--

Code/Standard: 2021 International Energy Conservation Code

Applies to following Printings: All

Section/Table/Figure Number: Table R402.1.3

Posted: August 10, 2021 updated September 18, 2026

Correction:

TABLE R402.1.3
INSULATION MINIMUM R-VALUES AND FENESTRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^{b, i}	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE ^g	MASS WALL R-VALUE ^h	FLOOR R-VALUE	BASEMENT ^{c, g} WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^{c, g} WALL R-VALUE
0	NR	0.75	0.25	30	13 or 0&10ci	3/4	13	0	0	0
1	NR	0.75	0.25	30	13 or 0&10ci	3/4	13	0	0	0
2	0.40	0.65	0.25	49	13 or 0&10ci	4/6	13	0	0	0
3	.30	0.55	0.25	49	20 or 13+&5ci ^h or 0+&15ci ^h	8/13	19	5ci or 13f	10ci, 2 ft	5ci or 13f
4 except Marine	.30	0.55	0.40	60	30 or 20+&5ci ^h or 13+&10ci ^h or 0+&15&20ci ^h	8/13	19	10ci or 13	10ci, 4 ft	10ci or 13
5 and Marine 4	0.30 ⁱ	0.55	0.40	60	30 or 20+&5ci ^h or 13+&10ci ^h or 0+&15&20ci ^h	13/17	30	15ci or 19 or 13+&5ci	10ci, 4 ft	15ci or 19 or 13+&5ci
6	0.30 ⁱ	0.55	NR	60	30 or 20+&5ci ^h or 13+&10ci ^h or 0+&20ci ^h	15/20	30	15ci or 19 or 13+&5ci	10ci, 4 ft	15ci or 19 or 13+&5ci
7 and 8	0.30 ⁱ	0.55	NR	60	30 or 20+&5ci ^h or 13+&10ci ^h or 0+&20ci ^h	19/21	38	15ci or 19 or 13+&5ci	10ci, 4 ft	15ci or 19 or 13+&5ci

d. R-5 continuous insulation shall be provided under the full slab area of a heated slab in addition to the required slab edge insulation R-value for slabs, as indicated in the table. The slab-edge insulation for heated slabs shall not be required to extend below the slab.

e. There are no SHGC requirements in the Marine Zone.

f. Basement wall insulation and crawl space wall insulation is not required in Warm Humid locations as defined by Figure R301.1 and Table R301.1.

g. The first value is cavity insulation; the second value is continuous insulation. Therefore, as an example, "13 + 5" insulation (ci), so "13&5ci: means R-13 cavity insulation in addition to R-5 continuous insulation (ci) and "13&10ci" means R-13 cavity insulation in addition to R-10 continuous insulation (ci), plus R-5 continuous insulation.

h. Mass walls shall be in accordance with Section R402.2.5. The second R-value applies where more than half of the insulation is on the interior of the mass wall.

- i. A maximum *U*-factor of 0.32 shall apply in Climate Zones 3 through 8 to vertical fenestration products installed in buildings located either:
 - 1. Above 4,000 feet in elevation, or
 - 2. In windborne debris regions where protection of openings is required by Section R301.2.1.2 of the *International Residential Code*.
- j. "10ci" means R-10 continuous insulation (ci).