

Residential Energy Code Compliance

IRC Table N1102.1 Insulation and Fenestration Requirements by Component ^a

Climate Zone	Fenestration U-factor	Skylight ^b U-Factor	Glazed Fenestration SHGC	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value ^k	Floor R-Value	Basement ^c Wall R-Value	Slab ^d R-Value and Depth	Crawl Space ^c Wall R-Value
5 and Marine 4	0.35	.60	NR	38	20 Or 13+5 ^h	13/17	30 ^g	10/13	10, 2 ft	10 / 13

Energy Code Compliance

See the compliance options below. Plans must be submitted demonstrating either the Prescriptive Approach or the Total UA Alternative approach for energy code compliance.

1. Option 1: Total UA Alternative Approach

A copy of the REScheck compliance report is attached to the plans. (This includes both the cover sheet and the inspection checklist.)

2. Option 2: Prescriptive Component Approach

- a. R-values are minimums. U-Factors and solar heat gain coefficient (SHGC) are maximums. R-19 batts compressed in to nominal 2x6 framing cavity such that the R-value is reduced by R-1 or more shall be marked with the compressed batt R-value in addition to the full thickness R-value.
- b. The fenestration U-factor column excludes skylights. The solar heat gain coefficient (SHGC) column applies to all glazed fenestration.
- c. The first R-value applied to continuous insulation, the second to framing cavity insulation; either insulation meets the requirements.
- d. R-5 shall be added to the required slab edge R-values for heated slab.
- g. Insulation sufficient to fill the framing cavity, R-19 minimum.
- h. "13 + 5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25% or less of the exterior, R-5 sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25% of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2.
- k. The second R-value applies when more than half the insulation is on the interior.