



Prescriptive Residential Energy Efficiency

Community Development Department
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The prescriptive approach, found in the 2018 International Energy Conservation Code, lists the minimum requirements for energy compliance as required by the code for insulation and window requirements in Zone 5, which is the climate zone in which Post Falls is located. The chart below gives the minimum insulation R-values and glazing U-factors which need to be met, or exceeded, to achieve compliance with the code.

There is also an available U-factor alternative which requires one to find the U-factor for building components and meet the requirements of Table R402.1.4 (2018 IECC).

An alternative to the prescriptive approach is the total UA alternative, which can be calculated using the REScheck software program that can be downloaded for free at www.energycodes.gov.

If you decide to go with the prescriptive method of energy efficiency you must comply with Sections R402.1 through R402.4 (2018 IECC), using the chart below as the minimum requirements.

Return this sheet with your permit submittal in order to use the prescriptive method.

Contractor Name _____ Date _____

Contractor Address _____

Site Address _____

Submitted By _____

Insulation and Fenestration Requirements by Component for Climate Zone 5

Climate Zone	Fenestration ^b U-Factor	Skylight ^b U-Factor	Glazed Fenestration SHGC ^{b,e}	Ceiling R-Value	Wood Frame Wall R-Value	Mass wall R-value ⁱ	Floor R-Value	Basement ^c Wall R-Value	Slab ^d R-Value & Depth	Crawl Space ^c Wall R-Value
5	0.32	0.55	NR	38	20 or 13+5 ^h	13/17	30 ^g	15/19	10,2ft	15/19

- a. R-values are minimums. U-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label or design thickness of the insulation, the installed R-value of the insulation shall be not less than the R-value specified in the table.
- b. The Fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- c. "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. Alternatively, compliance with "15/19" shall be R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home.
- d. R-5 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 is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1.
- g. Alternatively, insulation sufficient to fill the framing cavity and providing not less than an R-value of -19.
- h. The first value is cavity insulation, the second value is continuous insulation. Therefore, as an example, "13+5" means R-13 cavity insulation plus R-5 continuous insulation.
- i. 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.