



RATER CHECKLIST: INSULATION

- Items from framing checklist are complete.
- Baffles are installed at the exterior edge of the wall allowing for proper insulation coverage over the top plate.
- No gaps, voids, compression or misalignment.
- Insulation is installed so that it will be in full contact with the air barrier (typically the sheet rock).
- Kraft-faced batts are face-stapled.
- Insulation is split around plumbing and electrical wires.
- Insulation is cut around and placed behind electrical outlets and plumbing.
- Reliefs are cut at blocking and ladder Ts.
- Insulation is properly installed everywhere along the air barrier, or will easily be installed after drywall (check for spots difficult to insulate after drywall: underneath attic platform, etc.).
- Insulation levels, at a minimum, are equal to those required by the 2009 IECC.

2009 IECC INSULATION REQUIREMENTS

CLIMATE ZONE	CEILING	FRAME WALL	FLOOR	BASEMENT WALL	CRAWL SPACE WALL ^e	SLAB ^{f,g}
Zone 1	R-30	R-13	R-13	R-0	R-0	0
Zone 2	R-30	R-13	R-13	R-0	R-0	0
Zone 3	R-30	R-13	R-19	R-5/13 ^f	R-5/13	0
Zone 4	R-38	R-13	R-19	R-10/13	R-10/13	10, 2 ft.
Zone 5	R-38	R-20 or R-13+R-5 ^b	R-30 ^d	R-10/13	R-10/13	10, 2 ft.
Zone 6	R-49	R-20 or R-13+R-5 ^b	R-30 ^d	R-15/19	R-10/13	10, 4 ft.
Zone 7	R-49	R-21	R-38 ^d	R-15/19	R-10/13	10, 4 ft.

- a. R-Values are minimums.
- b. "R-13+R-5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, insulated sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of the exterior, structural sheathing shall be supplemented with insulation sheathing of at least R-2.
- c. The second R-value applies when more than half of the insulation is on the interior of the mass wall.
- d. Sufficient insulation to fill the cavity, R-19 minimum.
- e. "R-15/19" means R-15 continuous insulation sheathing on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "R-10/13" means R-10 continuous insulated sheathing or R-10 cavity insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.
- f. Basement wall insulation is not required in warm-humid locations defined by Figure 301.1 and Table 301.1 of the IECC.
- g. R-values are minimums.
- h. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or two feet, whichever is less in Climate Zones 1-3 for heated slabs.

Interactive Map:

<http://energycode.pnl.gov/EnergyCodeReqs/>