Success with 2009 IECC in Alabama:

Tech Tips for Builders

INSULATION

advanced energy

SEEA
SOUTHEAST ENERGY EFFICIENCY ALLIANCE

2009 IECC Tech Tips
ALABAMA

TECH TIPS:
INSULATION

Success with 2009 IECC in Alabama for Builders

1. For vented attics, install wind baffles on top of all exterior walls, leaving room for insulation over top plates and ventilation above.

✗ MISALIGNMENT

✓ RIGHT INSTALLATION

1. For vented attics, install wind baffles on top of all exterior walls, leaving room for insulation over top plates and ventilation above.

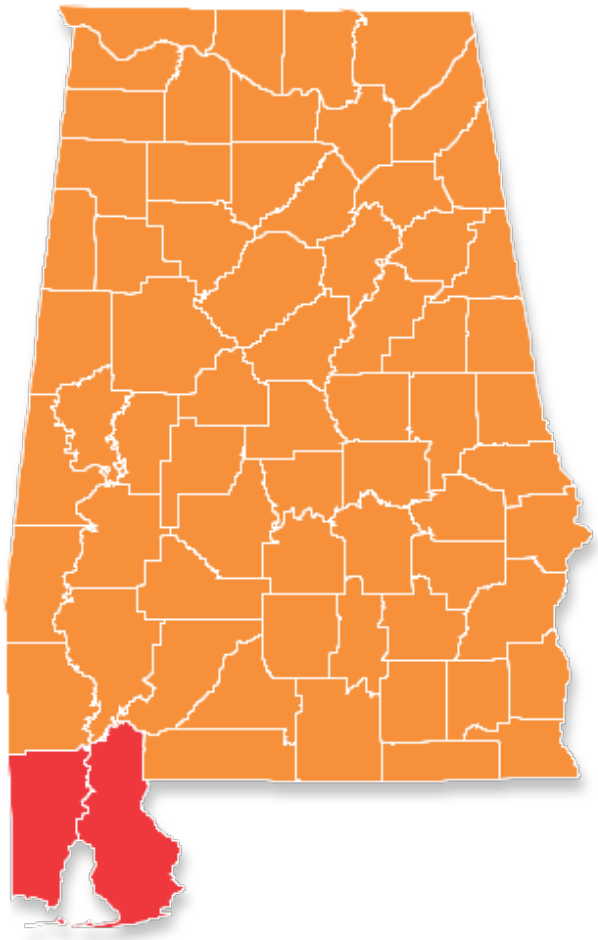
✗ WIND WASHING

✓ RIGHT INSTALLATION

TECH TIPS:
INSULATION

2. Install insulation to meet the Alabama Energy Code R-value requirements.[a]

CLIMATE ZONE	CEILING	FRAME WALL	MASS WALL[c]	FLOOR	BASEMENT WALL[e]	CRAWL SPACE WALL[e]	SLAB[g,h]
Zone 2	R-30	R-13	R-4/6	R-13	R-0	R-0	0
Zone 3	R-30	R-13	R-5/8	R-19	R-5/13[f]	R-5/13	0



a. R-values are minimums. U-factors and SHGC are maximums. R-19 batts compressed into a 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.

c. "5/13" means R-5 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing of 2 feet, whichever is less in zones 1 through 3 for heated slabs.

f. Basement Wall Insulation is not required in warm-humid locations.

i. The second R-value applies when more than half the insulation is on the interior of the wall.

Interactive Map:
http://energycode.pnl.gov/EnergyCodeReqs/

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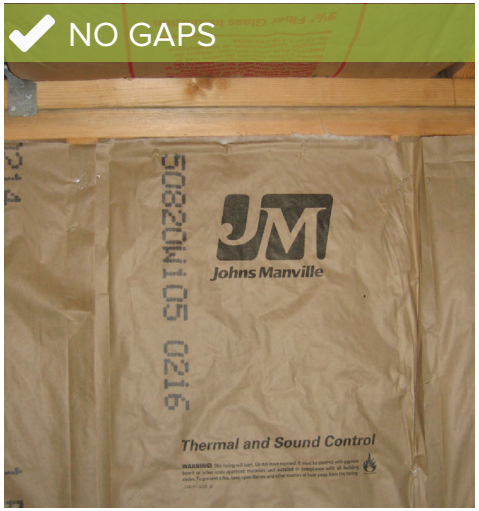
3. Install insulation to fill the cavity between conditioned and unconditioned space without gaps, voids, misalignments or compression.

✗ GAPS

✓ NO GAPS



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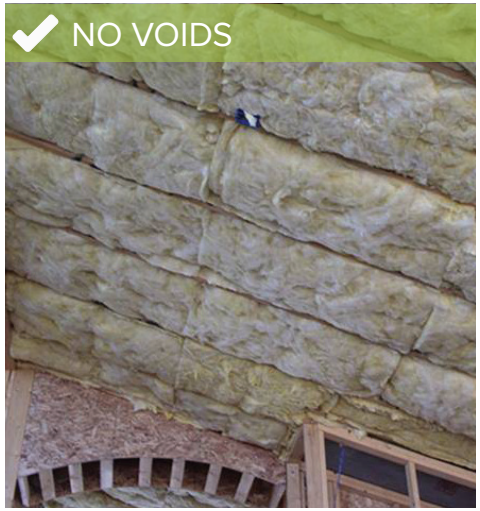
✗ VOIDS

✓ NO VOIDS



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✗ MISALIGNMENT

✓ NO MISALIGNMENT

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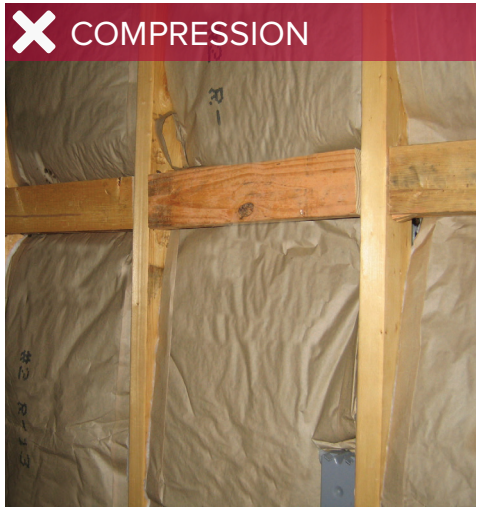
✗ COMPRESSION



✓ NO COMPRESSION

TECH TIPS:
INSULATION

4. Cut and split insulation around blocking, plumbing, HVAC and electrical components.

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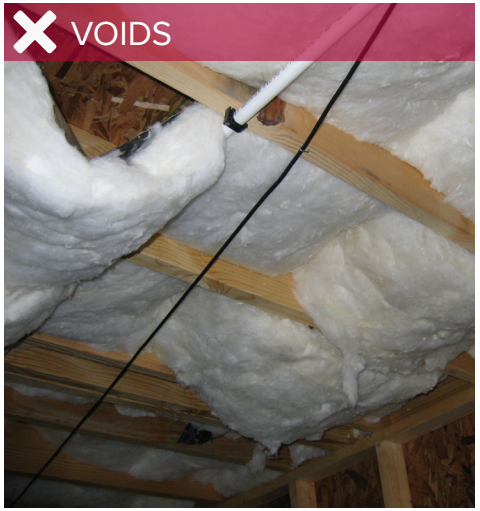
5. Install insulation to completely fill floor and/or cantilever framing or to maintain permanent contact with the subfloor.



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6. Air seal around windows and doors using backer rod, caulk or low expansion foam.

✗ INSULATION

✓ SEAL

7. Insulate the attic access and install weather stripping around the perimeter.

✗ NO INSULATION

✓ INSULATION

7. Insulate the attic access to the same level as surroundings and install weather stripping around the perimeter.

✗ NO INSULATION

✓ INSULATION

8. For attics with loose fill insulation, install baffles around the attic access opening.

✗ NO BAFFLES

✓ RIGHT INSTALLATION