



City of Rio Rancho

Development Services

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Heat Loss Calculations

For One (1) and Two (2) Family Dwellings

General Requirements

Compliance

- Provide design documents that meet or exceed the minimum requirements, as determined below
- Minimum requirements are given; better quality insulation and windows are acceptable and will provide improved comfort.
- Calk and seal all joints, cracks, and holes. Weather-strip all doors and windows.
- Up to 1% of heated area is allowed in skylight units. Skylights shall be insulated.
- Piping insulation of circulating water heating systems shall be R-4 for up to 1.25 inch diameter pipe and R-8 for larger diameters.
- For floor requirements, use floor system applicable to the design. In many cases, only one (1) type will apply.
- Slab permanent insulation; use the Tradeoff worksheet (taken from the 2003 New Mexico Energy Conservation Code) or visit www.energycodes.gov/rescheck/ to download REScheck.

Roof, Wall, Window, and Door Requirements

- Roof batt insulation.....R-30: 10" fiberglass batt
- Wall batt insulation.....R-19: 6" fiberglass batt, 2x6 studs
- Window Units and Glass Doors.....R-1.5: Insulated, metal frame, thermal break
- Doors.....R-2.5: 1-3/4" solid core wood (paneling optional)

Floor Requirements

- Slab.....R-4: 1"x24" expanded polystyrene board
- Slab w/Radiant Floor heating.....R-6: 2"x24" expanded polystyrene board
- Crawl space walls.....R-12: 3" expanded polystyrene board
- Basement walls.....R-10: 2" expanded polystyrene board
- Floor over unheated crawl space or unheated basement.....R-19: 6" fiberglass batt
- Floor over outdoor air.....R-30: 10" fiberglass batt

Name (printed)_____

Signature_____Date_____