



City of Rio Rancho
Development Services
3900 Southern Boulevard, Ste 103
Rio Rancho, NM 87124
(505) 891-5005 Fax: (505) 896-8994

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 \_\_\_\_\_