

# NEW RESIDENTIAL CONSTRUCTION

## RESIDENTIAL ENERGY CODE COMPLIANCE FORM

Builder Name \_\_\_\_\_  
 Builder Address \_\_\_\_\_  
 Builder Phone \_\_\_\_\_  
 Builder Fax \_\_\_\_\_  
 Building Address \_\_\_\_\_  
 Subdivision \_\_\_\_\_

*For City Use Only*

Permit # \_\_\_\_\_  
 Checked By \_\_\_\_\_  
 Date \_\_\_\_\_  
 Submittal Date \_\_\_\_\_  
 Submitted By \_\_\_\_\_  
 Phone \_\_\_\_\_

Choose one method of compliance:

**Simplified Prescriptive Approach**  
(fill out remainder of form)

**Systems Analysis Approach**  
(attach documentation such as HERS report)

**Component Performance Approach**  
(attach documentation)

**Participation in an approved Energy Performance Testing Program** (attach documentation, see below)

Continue if "Simplified Prescriptive Approach" was chosen:

### NCTCOG Simplified Prescriptive

Max Glazed Area to Wall Area Ratio	Max Glazed Fenestration U-Factor	Max Skylight U-Factor (b)	Max Glazed Fenestration SHGC	Minimum Ceiling R-Value	Minimum Frame Wall R-Value (d)	Mass Wall R-Value	Minimum Floor R-Value	Minimum Basement Wall R-Value	Minimum Slab R-Value & Depth (c)	Minimum Crawl Space Wall R-Value
15	0.60	0.65	0.40	30	13	6	19	6	0	7
20	0.54	0.65	0.40	38	13	6	19	6	0	7
25	0.51	0.65	0.40	38	16, 13 + 3.7e	7	19	6	0	7
30	0.46	0.65	0.38	38	16, 13 + 3.7e	7	19	6	0	7

For SI: 1 foot = 304.8 mm.

- A. R-values are minimum. U-factors and SHGC are maximums. R-19 shall be permitted to be compressed into a 2 x 6 cavity.
- B. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- C. R-5 shall be added to the required slab edge R-values for heated slabs.
- D. The total R-value may be achieved with a combination of cavity insulation and insulating sheathing that covers 100% of the exterior wall.
- E. The wall insulation may be the sum of the two values where the first value is the cavity insulation and the second value is insulating sheathing. The combination of cavity insulation plus insulating sheathing may be used where structural sheathing covers not more than 25% of the exterior wall area and insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25% of exterior wall area then the wall insulation requirement may only be satisfied with the single insulation value.

Window to Wall Ratio % \_\_\_\_\_  
(fill in)

\* Seer \_\_\_\_\_ (fill in)

\* Supply and return ducts can be insulated to a minimum of R-6, if the efficiency of the cooling equipment is upgraded to one Seer point above the NAECA Standard (>13)

If participating in an **Energy Performance Testing Program** list name of program here:

\_\_\_\_\_

The proposed building represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Energy Code in the jurisdiction in which it will be built.

Builder/Designer \_\_\_\_\_ Date \_\_\_\_\_

# Inspection Schedule

## Inspection

### At Rough Mechanical:

#### Duct insulation

- Inside the building but outside the conditioned area . . . . . \*R-6 \_\_\_\_\_
- Outside the building . . . . . R-8 \_\_\_\_\_
- Ducts inside the building but outside the conditioned area require a vapor retarder of 0.05 perm, or aluminum foil of 2 mils . . . . . \_\_\_\_\_
- Joints and seams of approved mastics, tapes or other approved material (mastic is encouraged; "duct" tape is not permitted). . . . . \_\_\_\_\_
- \*R-8 required if SEER is  $\leq 13$  . . . . . \_\_\_\_\_

### At Framing:

- Confirm window and door rough openings match approved plans . . . . . \_\_\_\_\_
- Check glazing NFRC stickers for UF and SHGC ratings . . . . . \_\_\_\_\_
- Penetrations (plumbing, electrical, HVAC, etc.) in top and bottom plates are sealed with foam or other approved sealant to prevent transfer of air with attic or under floor space . . . . . \_\_\_\_\_

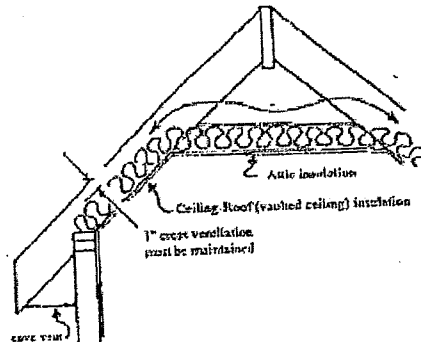
### At Insulation Inspection:

(This is an extra inspection that must be called after the framing inspection and after insulation is installed, but before any gyp board is installed)

- Check all insulation that will be concealed, e.g. wall, floor, vaulted ceiling, etc. for compliance with the R values required (Attic insulation that is accessible will be inspected at final) . . . . . \_\_\_\_\_

### At Final:

- Spot check electrical outlets, vents, plumbing and other envelop penetrations for sealing with caulk or bedding material . . . . . \_\_\_\_\_
- Weather stripping of doors, windows or other penetrations . . . . . \_\_\_\_\_
- Check HVAC equipment size, ratings and controls . . . . . \_\_\_\_\_
- Attic insulation for correct R value . . . . . \_\_\_\_\_



R-22 minimum ceiling-roof (vault) where less than 30" vertical.  
 Greater dimension requires R-value (in vault) to match attic R-value.