

Residential Energy Code

Additions/Alteration Field Inspections

(Approved plans on job site at all inspections- required)

Framing Inspections

- Infiltration Control – seal all penetrations and openings in the building envelope. Foam or other approved sealant. (No daylight is showing) Penetrations should be sealed on both the inside and outside when sidings or veneers are used. Caulking and weather-stripping must be installed in accordance with the manufacturer’s installation instructions.
 1. Caulk or seal top & bottom plate, brick openings, windows
 2. Seal attic & floor penetrations electrical and plumbing - ex. tub trap opening 2nd floor
 3. Seal chimney fire blocks (if applicable)
 4. Return air ducts in chases
- Glazing and Door U-Factors: (Labeling required: SHGC \\ NFRC)
 5. Glazing and door area, and skylights – all glass must have SHGC (Solar Heat Gain Coefficient) value equal to or less than .25
 6. **Must be NFRC (National Fenestration Rating Council) certified**
 7. Rough openings for door & window sizes shall comply w/ plans

Electrical Rough Inspections

- Recessed lighting to be airtight design or to be enclosed with a sealed box constructed from ½” gypsum or other airtight assembly. (if applicable)

Mechanical Rough Inspections

1. Insulation R-values for ductwork will be 5.0 in unconditioned spaces and 8.0 for exterior locations.
2. “Duct Tape” is not permitted as a sealant on any ducts.
3. Tapes and mastics shall be listed and labeled in accordance with UL 181A.
4. For return air installations – (stud wall cavities shall not convey air from more than one level.)
5. Piping insulation for A/C condense lines (fluid temperature range 40-55 degrees Fahrenheit) .75-wall thickness.

Insulation Inspections *(New inspection called after frame, & before drywall)*

- Insulation – wall and ceiling
 1. Insulation shall have R- values equal to or greater than the R- values indicated on the approved plans
 2. Review for missing pieces of insulation
 3. Vapor retarder – not required but when installed shall be on the exterior side of the thermal envelope, not the “warm in winter side”.
 4. Insulation at roof/ceiling (vaulted ceiling) requires 1” cross ventilation.

Final Mechanical Inspections

1. Check HVAC equipment for size and ratings. (if applicable)
2. Thermostatic controls shall be capable of being set locally or remotely. Minimum temperature ranges (55-85) degrees Fahrenheit. (if applicable)

Final Energy Inspections

1. Glazing U-Factors: (Labeling required: SHGC \\ NFRC)
2. Weather-stripping of doors, windows, & attic access
3. Attic Insulation – correct R-value, depth
4. Caulk or seal top of window and sill

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