

## 2015 IECC CODE COMPLIANCE

- R301.1 Climate zone 4A
- R401.2 Compliance Method:  
Mandatory and Prescriptive Provisions
- R402.1.1 Vapor Retarder:  
Wall assemblies in the building thermal envelope shall comply with vapor retarder requirements of Section R702.7 of the International Residential Code, 2015 Edition.
- R402.1.2 Attic Insulation: Raised Heel Trusses  
R-49 R-38
- R402.1.2 Wood Frame Wall:  
R-20 or R13 + R5 continuous insulation.
- R402.1.2 Basement Wall Insulation:  
R-13/R-10 Foil Faced Continuous, uninterrupted Batts Full Height
- R402.1.2 Crawl Space Wall Insulation:  
R-13/R-10 Foil faced Continuous Batts Full Height extending from floor above to finish grade level and then vertically or horizontally an additional 2' -0".
- R402.1.2 Floor Insulation over Unconditioned Space:  
R-19 batt insulation.
- R402.1.2 Window U-Value/SHGC  
.35 (U-Value)  
.40 (SHGC)
- R402.2.10 Slab on Grade Floors Less Than 12" Below Grade:  
R-10 Rigid Foam Board Under Slab Extending Either 2' -0" Horizontally or 2' -0" Vertically
- R402.2.4 Attic Access:  
Attic access scuttle will be weatherstripped and insulated R-49
- R402.4 Building Thermal Envelope (air leakage):  
Exterior walls and penetrations will be sealed per this section of the 2015 IECC with caulk, gaskets, weatherstripping or an air barrier of suitable material. Sealing methods between dissimilar materials shall allow sealing for differential expansion and contraction.
- R402.4.1.2 Building Thermal Envelope Tightness Test:  
Building envelope shall be tested and verified as having an air leakage rate of not exceeding 3 air changes per hour. Testing shall be conducted in accordance with ASTM E 779 or ASTM E 1827 with (blower door) at a pressure of 0.2 inches w.g. (50 pascals). Testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the building inspector.

- R402.4.2 Fireplaces: New wood burning fireplaces will have tight-fitting flue dampers or doors, and outdoor combustion air. Fireplace doors shall be listed and labeled in accordance with UL 127 (factory built fireplace) and UL 907 (masonry fireplace).
- R402.4.4 Rooms containing fuel-burning appliances where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air shall be located outside the building thermal envelope or enclosed in a room isolated from inside the thermal envelope.  
**Exceptions:** 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the IRC.
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- R402.4.5 Recessed Lighting  
 Recessed luminaries installed in the building thermal envelope shall be sealed to limit air leakage.
- R403.1.1 Thermostat  
 All dwelling units will have at least (1) programmable thermostat for each separate heating and cooling system per 2015 IECC Section 403.1.1.
- R403.1.2 Where a Heat pump system having supplementary electric resistance heat is used the thermostat shall prevent the supplementary heat from coming on when heat pump can meet heating load.
- R403.3.1 Mechanical Duct Insulation  
 Supply and Return Ducts in Attic R-8 minimum, R-6 when less than 3 inches.  
 Supply and Return Ducts outside of conditioned spaces R-8 minimum.  
 All other ducts except those located completely inside the building thermal envelope R-6 minimum. Ducts located under concrete slabs must be R-6 minimum.
- R403.3.2 Duct Sealing  
 All ducts, air handlers, filter boxes will be sealed. Joints and seams will comply with section M1601.4.1 of the IRC.  
  
 A duct tightness test (“Duct Blaster” duct total leakage test) will be performed on all homes and shall be verified by either a post construction test or a rough-in test. Duct tightness test is not required if the air handler and all ducts are located within the conditioned space.
- R403.6 Mechanical Ventilation  
 Outdoor (make-up and exhausts) air ducts to be provided with automatic or gravity damper that close when the ventilation system is not operating.
- R403.6.1 Whole-house mechanical ventilation system fan efficiency to comply with TABLE R403.6.1.
- R403.7 Equipment Sizing shall comply with R403.7.
- R404.1 Lighting Equipment  
 A minimum of 75% of all lamps (lights) must be high-efficacy lamps.

This contractor also responsible for generating Certificate of Compliance and affixing to electrical panel or within 6 feet of the electrical panel and be readily visible.