## **COUNTY OF PICKENS**

## 2009 Energy Code Checklist For Residential Construction

(Required for all New Single-Family and Multi-Family Dwellings, Additions and Renovations)

The State of South Carolina has adopted the 2009 International Energy Conservation Code (IECC), which goes into effect beginning January 1st, 2013. This form is required to be filled out and submitted prior to issuance of the Certificate of Occupancy.

Project Address:	Permit#
Builder:	License #
Phone: Email:	Date
Project Type: Single-Family Dwelling Townhome Duplex Addition	Renovation
Required Documentation:	4
1. Energy Compliance - Choose One method. All methods must meet the Mandato	ory Requirements (2).
Prescriptive - Includes Mandatory Requirements (2), Prescriptive Requirements (3	3) and Energy Certificate (4).
Trade Off - Includes Mandatory Requirements (2) and Energy Certificate (4). Atta to show compliance. Go-to: www.energycodes.gov/rescheck (It's easy and free	
Performance – Includes Mandatory Requirements (2), Energy Certificate (4). Atta compliance. Documentation must include standard reference design and proposed design a	
2. <b>Mandatory Requirements</b> – Building envelope air tightness and insulation instal demonstrated to comply with the following.	lation shall be
Mandatory Requirements	
Building Thermal Envelope (402.4.1) - Building thermal envelope shall be durably sealed to limit infiltration.	Complied
2. Air Sealing and Insulation (402.4.2) – Building envelope air tightness and insulation shall be demonstrated to comply with one of the following options - <b>CHOOSE ONE</b>	
Blower Door Test – Individual performing the test is required to be HERS or BPI	Complied N/A
Certified  Air leakage is less than seven air changes per hour at a pressure of 50 pascals.	
Test Performed By:	ø
Address:	
Date Test Was Performed:	
HERS Certified BPI Certified	
To locate a certified professional log onto:  http://www.energy.sc.gov/ http://www.resnet.us/trade/home-energy-raters-hers-raters/ http://www.bpi.org/	
Visual Inspection – Building envelope tightness and insulation inspection shall be considered acceptable when items listed in Table 402.4.2 are field verified.	Complied with Table 402.4.2

AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		* 17 T		
3. Fireplaces (402.4.3) – Wood bur air	rning fireplace	s shall have gasketed doors and outdoor combustion	Complied	- NT/A
an an		□ N/A		
. Fenestration Air Leakage (402.4 . Fenestration Air Leakage (402.4	Complied	N/A		
Recessed Lighting (402.4.5)	Complied	N/A		
Heating/Cooling System Control	le (402 1) De	I w/ Gasket or Caulk and Air Tight ogrammable Thermostat Required	Complied	N/A
. HVAC Duct Sealing (403.2) – A	15 (405.1) - Pro	ogrammable Thermostat Required	☐ Complied	N/A
HVAC Dust Tightness Testing	(402.2.2) CH	with approved material	Complied	N/A
Post Construction Test – La area or a total leakage of less	Certified.  eakage less that than or equal	OOSE ONE Note: Individual performing test  n or equal to 8 cfm per 100 ft <sup>2</sup> of conditioned floor to 12 cfm per 100 ft <sup>2</sup> of conditioned floor area at a	☐ Complied	∏ N/A
Rough In Test - Leakage is pressure differential of 25 pa	less than or eq scals including	Manufacturer's Air Handler Enclosure.  Leal to 6 cfm per 100 ft2 of conditioned floor area at a Manufacturer's Air Handler Enclosure. If Air per less than or equal to 4 cfm per 100 ft2.	a ☐ Complied	∏ N/A
Address:				
Address:				
Date Test Was Performed:		☐ HERS Certified ☐ BPI Certified		
Machania Division (403.2.3) - Bu	uilding framing	cavities shall not be used as supply ducts.	Complied	N/A
. Mechanical Piping Insulation (4	103.3) – R3 Mi	nimum	Complied	N/A
. Circulating Hot Water System (	(403.4) – Pipin	g insulated R2 minimum	Complied	N/A
. Mechanical Ventilation (403.5)	<ul> <li>Outdoor air</li> </ul>	intakes/exhaust require dampers.	Complied	N/A
high efficiency (CFL's, LED's, e	etc.)	s installed in permanent lighting fixtures shall be	Complied	□ N/A
5. HVAC Equipment Sizing (403. calculated in accordance with A	6) – HVAC eq CCA Manual	uipment shall be sized based on building loads	Complied	
- 13 G: 4				Per Control
uilder Signature:		Dat	e <b>:</b>	
uilder Signature:  Prescriptive Requirement	ts	Dat	e:	
Prescriptive Requirement			e:	
Prescriptive Requirement Minimum Fenestration, Inst	ulation and I		e:	
Prescriptive Requirement Minimum Fenestration, Inst (Clim	ulation and I ate Zone 3)	energy Requirements	e:	
Prescriptive Requirement Minimum Fenestration, Inst (Clim	ulation and I	Energy Requirements  Windows, Opaque Doors, Glazed Doors		7 <b>N</b> /A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC	ulation and I ate Zone 3)	Chergy Requirements  Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor	_ Complied _	] N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC	ulation and I ate Zone 3) 0.50 0.30	Energy Requirements  Windows, Opaque Doors, Glazed Doors	Complied Complied	N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor	ulation and I ate Zone 3) 0.50 0.30 0.65	Chergy Requirements  Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor	Complied Complied Complied	N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor iling Insulation terior Wood Frame Wall	0.50 0.30 0.65 R30	Chergy Requirements  Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor	Complied Complied Complied Complied	N/A N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor iling Insulation terior Wood Frame Wall	0.50 0.65 R30 R13	Chergy Requirements  Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor	Complied Complied Complied Complied Complied Complied	N/A N/A N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor illing Insulation terior Wood Frame Wall oor Over Un-Conditioned Space	0.50 0.30 0.65 R30	Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor  SHGC = Solar Heat Gain Coefficient	Complied Com	N/A N/A N/A N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor iling Insulation terior Wood Frame Wall or Over Un-Conditioned Space (AC Ducts in Attics	0.50 0.50 0.65 R30 R13 R19	Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor  SHGC = Solar Heat Gain Coefficient  [ R6 required in unconditioned basements and crawl spaces	Complied Complied Complied Complied Complied Complied Complied Complied	N/A N/A N/A N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor illing Insulation terior Wood Frame Wall or Over Un-Conditioned Space VAC Ducts in Attics inditioned Basement Wall	0.50 0.50 0.65 R30 R13 R19 R8	Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor  SHGC = Solar Heat Gain Coefficient	Complied Complied Complied Complied Complied Complied Complied Complied Complied	N/A N/A N/A N/A N/A N/A N/A N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor illing Insulation terior Wood Frame Wall oor Over Un-Conditioned Space VAC Ducts in Attics inditioned Basement Wall ass Wall	0.50 0.50 0.65 R30 R13 R19 R8 R 5/13	Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor  SHGC = Solar Heat Gain Coefficient  R6 required in unconditioned basements and crawl spaces  R5 Continuous or R13 Cavity	Complied	N/A N/A N/A N/A N/A N/A N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst (Clim nestration U-Factor azed Fenestration SHGC ylight U-Factor illing Insulation terior Wood Frame Wall oor Over Un-Conditioned Space /AC Ducts in Attics nditioned Basement Wall ass Wall awl Space Wall (Closed)	0.50 0.50 0.65 R30 R13 R19 R8 R 5/13	Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor  SHGC = Solar Heat Gain Coefficient  R6 required in unconditioned basements and crawl spaces  R5 Continuous or R13 Cavity	Complied	N/A N/A N/A N/A N/A N/A N/A N/A
Prescriptive Requirement Minimum Fenestration, Inst	0.50 0.50 0.65 R30 R13 R19 R8 R 5/13	Windows, Opaque Doors, Glazed Doors  U = Thermal Transmittance Factor  SHGC = Solar Heat Gain Coefficient  R6 required in unconditioned basements and crawl spaces  R5 Continuous or R13 Cavity	Complied	N/A

Date:

**Builder Signature:** 

Table 402.4.2 identifies the items required to be field verified if "Visual Inspection" is checked under the Mandatory Requirements (Item #2)

Walls    Complied   N/A   Corners and headers are insulated.   Complied   N/A   Junction of foundation and sill plate is sealed.   Windows and Doors   Complied   N/A   Space between window/door jambs and framing is sealed.   Rim Joists   Complied   N/A   Space between window/door jambs and framing is sealed.   Rim Joists   Complied   N/A   Rim Joists are insulated and include an air barrier.   Floors (Including above-garage and cantilevered floors)   Complied   N/A   Insulation is installed to maintain permanent contact with underside of subfloor decking. Air barrier is installed at any exposed edge of insulation.   Crawl Space Walls (Closed Crawl Space)   Complied   N/A   Insulation is permanently attached to walls.   Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.   Shafts, Penetrations   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.   Narrow cavities   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.   Recessed Lighting   Complied   N/A   Shatts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.   Recessed Lighting   Complied   N/A   Recessed light fixtures are air tight, IC rated, and sealed to drywall.   Exception: Fixtures in conditioned space.   Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.   Shower/Tub on Exterior Wall   Complied   N/A   Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.   Complied   N/A   Air barrier is installed in continon wall between dwelling units.   HVAC register boots that penetrate building envelope are sealed to subfloor or drywall		<u> </u>	Table 402.4.2
Air Barrier and Thermal Barrier    Complied   N/A   Air permeable insulation is not used as a sealing material.     Complied   N/A   Air permeable insulation is inside of an air barrier.     Complied   N/A   Air barrier in any dropped ceiting/soffit is substantially aligned with insulation and any gaps are sealed.     Aftica access (except unvented attic), knee wall door, or drop down stair is sealed.     Complied   N/A   Air barrier in any dropped ceiting/soffit is substantially aligned with insulation and any gaps are sealed.     Complied   N/A   Aftica access (except unvented attic), knee wall door, or drop down stair is sealed.     Windows and Doors   Complied   N/A   Junction of foundation and sill plate is sealed.     Windows and Doors   Complied   N/A   Space between window/door jambs and framing is sealed.     Windows and Doors   Complied   N/A   Space between window/door jambs and framing is sealed.     Windows and Doors   Complied   N/A   Rim Joists are insulated and include an air barrier.     Floors (Including above-garage and cantilevered floors)   Complied   N/A   Insulation is installed to maintain permanent contact with underside of subloor decking. Air barrier is installed at any exposed edge of insulation.     Crawl Space Walls   Complied   N/A   Insulation is permanently attached to walls.     Exposed carth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.     Name of the properties are cut to fit, or narrow cavities are filled by space (above insulation).     Complied   N/A   Space of the properties are cut to fit, or narrow cavities are filled by space (above insulation).     Complied   N/A   Space of the properties are cut to fit, or narrow cavities are filled by space (above insulation).     Complied   N/A   Space of the properties are cut to fit, or narrow cavities are filled by space (above insulation).     Complied   N/A   Space of the properties are		☐ Complied ☐ N/A	substantial contact and continuous alignment with building envelope
Complied   N/A   Air permeable insulation is not used as a sealing material.     Complied   N/A   Air permeable insulation is inside of an air barrier.     Complied   N/A   Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.     Attic access (except unvented attic), knee wall door, or drop down stair is sealed.     Complied   N/A   Attic access (except unvented attic), knee wall door, or drop down stair is sealed.     Windows and Doors   Complied   N/A   Corners and headers are insulated.     Complied   N/A   Space between window/door jambs and framing is sealed.     Rim Joists   Complied   N/A   Rim Joists are insulated and include an air barrier.     Floors (Including above-garage and cantilevered floors)   Complied   N/A   Insulation is permanently attached to walls (Closed Crawl Space)   Complied   N/A   Insulation is permanently attached to walls (Closed Crawl Space)   Complied   N/A   Insulation is permanently attached to walls (Closed Crawl Space)   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.     Narrow cavities   Complied   N/A   Batts in narrow cavities are filled by sprayed/blown insulation.     Garage Separation   Complied   N/A   Air sealing is provided between the garage and conditioned space.     Recessed Lighting   Complied   N/A   Recessed light fixtures are air tight. If gated, and sealed to drywall.	Air Barrier and Thermal Barrier	Complied N/A	Breaks or joints in the air barrier are filled or repaired.
Ceiling/Attic    Complied   N/A   Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are scaled.   Attic access (except unvented attic), knee wall door, or drop down stair is scaled.   Walls	January Bullion	☐ Complied ☐ N/A	Air permeable insulation is not used as a sealing material.
Ceiling/Attic		Complied N/A	Air permeable insulation is inside of an air barrier.
Walls    Complied   N/A   Corners and headers are insulated.   Complied   N/A   Junction of foundation and sill plate is sealed.   Windows and Doors   Gomplied   N/A   Space between window/door jambs, and framing is sealed.   Rim Joists   Complied   N/A   Rim Joists are insulated and include an air barrier.   Floors (Including above-garage and cantilevered floors)   Complied   N/A   Insulation is installed to maintain permanent contact with underside of subfloor decking, Air barrier is installed at any exposed edge of insulation.   Crawl Space Walls   Complied   N/A   Insulation is permanently attached to walls.   Crawl Space Walls   Complied   N/A   Insulation is permanently attached to walls.   Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.   Narrow cavities   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space sealed.   Narrow cavities   Complied   N/A   Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.   Garage Separation   Complied   N/A   Air sealing is provided between the garage and conditioned spaces.   Recessed Lighting   Complied   N/A   Recessed light fixtures are in upth; IC staed, and sealed to drywall.	Ceiling/Attic	Complied N/A	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
Complied   N/A   Space between window/door jambs and framing is sealed.   Rim Joists   Complied   N/A   Rim Joists are insulated and include an air barrier.   Floors (Including above-garage and cantilevered floors)   Complied   N/A   Rim Joists are insulated and include an air barrier.   Insulation is installed to maintain permanent contact with underside of subfloor decking. Air barrier is installed at any exposed edge of insulation.   Crawl Space Walls (Closed Crawl Space)   Complied   N/A   Insulation is permanently attached to walls.   Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.   Shafts, Penetrations   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.   Narrow cavities   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.   Narrow cavities   Complied   N/A   Air sealing is provided between the garage and conditioned spaces.   Recessed Lighting   Complied   N/A   Air sealing is provided between the garage and conditioned spaces.   Plumbing and Wiring   Complied   N/A   Exception: Fixtures are air tight; IC rated, and sealed to drywall. Exception: Fixtures in conditioned space.   Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.   Shower/Tub on Exterior Wall   Complied   N/A   Air barrier extends behind boxes or air sealed type boxes are installed.   Common Wall   Complied   N/A   Air barrier is installed in common wall between dwelling units.   HVAC Register Boots that penetrate building envelope are sealed to subfloor or drywall   N/A   Public or drywall   N/A   N		Complied N/A	Attic access (except unvented attic), knee wall door, or drop down stair is sealed.
Complied N/A   Space between window/door jambs and framing is sealed.	Walls	☐ Complied ☐ N/A	Corners and headers are insulated.
Rim Joists		Complied N/A	Junction of foundation and sill plate is sealed.
Floors (Including above-garage and cantilevered floors)    Complied   N/A   Insulation is installed to maintain permanent contact with underside of subfloor decking. Air barrier is installed at any exposed edge of insulation.    Crawl Space Walls   Complied   N/A   Insulation is permanently attached to walls.   Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.     Shafts, Penetrations   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.    Narrow cavities   Complied   N/A   Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.     Garage Separation   Complied   N/A   Air sealing is provided between the garage and conditioned spaces.    Recessed Lighting   Complied   N/A   Recessed light fixtures are air tight, IC rated, and sealed to drywall.   Exception: Fixtures in conditioned space.     Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.     Shower/Tub on Exterior Wall   Complied   N/A   Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.     Complied   N/A   Air barrier extends behind boxes or air sealed type boxes are installed.     Common Wall   Complied   N/A   Air barrier is installed in common wall between dwelling units.     HVAC register Boots   Complied   N/A   HVAC register boots that penetrate building envelope are sealed to subfloor or drywall		Complied N/A	Space between window/door jambs and framing is sealed.
and cantilevered floors)  Complied N/A subfloor decking. Air barrier is installed at any exposed edge of insulation.  Crawl Space Walls (Closed Crawl Space)  Complied N/A Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.  Shafts, Penetrations  Complied N/A Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.  Narrow cavities  Complied N/A Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.  Garage Separation  Complied N/A Air sealing is provided between the garage and conditioned spaces.  Recessed Lighting  Complied N/A Exception Fixtures are air tight, IC rated, and sealed to drywall. Exception Fixtures in conditioned space.  Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.  Shower/Tub on Exterior Wall  Complied N/A Air barrier extends behind boxes or air sealed type boxes are installed.  Common Wall  Complied N/A Air barrier is installed in common wall between dwelling units.  HVAC Register Boots  Complied N/A Subarrier is installed in common wall between dwelling units.  HVAC register boots that penetrate building envelope are sealed to subfloor or drywall	Rim Joists	Complied N/A	Rim Joists are insulated and include an air barrier.
Complied   N/A   Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.    Shafts, Penetrations   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.    Narrow cavities   Complied   N/A   Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.    Garage Separation   Complied   N/A   Air sealing is provided between the garage and conditioned spaces.    Recessed Lighting   Complied   N/A   Recessed light fixtures are air tight, IC rated, and sealed to drywall.   Exception: Fixtures in conditioned space.    Plumbing and Wiring   Complied   N/A   Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.    Shower/Tub on Exterior Wall   Complied   N/A   Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.    Electrical/Phone Box on   Complied   N/A   Air barrier extends behind boxes or air sealed type boxes are installed.    Common Wall   Complied   N/A   Air barrier is installed in common wall between dwelling units.    HVAC register Boots   Complied   N/A   HVAC register boots that penetrate building envelope are sealed to subfloor or drywall		Complied N/A	subfloor decking. Air barrier is installed at any exposed edge of
Complied   N/A   Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.    Shafts, Penetrations   Complied   N/A   Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.    Narrow cavities   Complied   N/A   Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.    Garage Separation   Complied   N/A   Air sealing is provided between the garage and conditioned spaces.    Recessed Lighting   Complied   N/A   Recessed light fixtures are air tight, IC rated, and sealed to drywall.   Exception. Fixtures in conditioned space.    Plumbing and Wiring   Complied   N/A   Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.    Shower/Tub on Exterior Wall   Complied   N/A   Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.    Electrical/Phone Box on   Complied   N/A   Air barrier extends behind boxes or air sealed type boxes are installed.    Common Wall   Complied   N/A   Air barrier is installed in common wall between dwelling units.    HVAC register Boots   Complied   N/A   HVAC register boots that penetrate building envelope are sealed to subfloor or drywall	Crawl Space Walls	Complied N/A	
Narrow cavities    Complied   N/A   Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.    Complied   N/A   Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.    Complied   N/A   Air sealing is provided between the garage and conditioned spaces.    Recessed Lighting   Complied   N/A   Recessed light fixtures are air tight, IC rated, and sealed to drywall.		Complied N/A	Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.
Garage Separation  Complied \ N/A Air sealing is provided between the garage and conditioned spaces.  Recessed Lighting  Complied \ N/A Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception: Fixtures in conditioned space.  Plumbing and Wiring  Complied \ N/A Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception: Fixtures in conditioned space.  Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.  Shower/Tub on Exterior Wall  Complied \ N/A Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.  Electrical/Phone Box on  Exterior Wall  Complied \ N/A Air barrier extends behind boxes or air sealed type boxes are installed.  Common Wall  Complied \ N/A Air barrier is installed in common wall between dwelling units.  HVAC register Boots  HVAC register boots that penetrate building envelope are sealed to subfloor or drywall	Shafts, Penetrations	Complied N/A	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.
Recessed Lighting  Complied \( \subseteq \text{N/A} \)  Recessed light fixtures are air tight, IC rated, and sealed to drywall.  Exception: Fixtures in conditioned space.  Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.  Shower/Tub on Exterior Wall  Complied \( \subseteq \text{N/A} \)  Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.  Electrical/Phone Box on  Exterior Wall  Complied \( \subseteq \text{N/A} \)  Air barrier extends behind boxes or air sealed type boxes are installed.  Common Wall  Complied \( \subseteq \text{N/A} \)  Air barrier is installed in common wall between dwelling units.  HVAC register boots that penetrate building envelope are sealed to subfloor or drywall		Complied N/A	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.
Plumbing and Wiring  Complied N/A  Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.  Shower/Tub on Exterior Wall  Complied N/A  Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.  Electrical/Phone Box on Exterior Wall  Complied N/A  Air barrier extends behind boxes or air sealed type boxes are installed.  Common Wall  Complied N/A  Air barrier is installed in common wall between dwelling units.  HVAC Register Boots  Complied N/A  HVAC register boots that penetrate building envelope are sealed to subfloor or drywall	Garage Separation	Complied N/A	Air sealing is provided between the garage and conditioned spaces.
Shower/Tub on Exterior Wall  Complied \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Recessed Lighting	☐ Complied ☐ N/A	Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception: Fixtures in conditioned space.
Separating them from the exterior wall.  Electrical/Phone Box on Exterior Wall  Complied \( \subseteq \text{N/A} \)  Air barrier extends behind boxes or air sealed type boxes are installed.  Common Wall  Complied \( \subseteq \text{N/A} \)  Air barrier is installed in common wall between dwelling units.  HVAC Register Boots  HVAC register boots that penetrate building envelope are sealed to subfloor or drywall	Plumbing and Wiring	Complied N/A	It around wiring and plumbing, or sprayed/blown insulation extends
Exterior Wall  Complied \( \subseteq \text{N/A} \) Air barrier extends behind boxes or air sealed type boxes are installed.  Common Wall  Complied \( \subseteq \text{N/A} \) Air barrier is installed in common wall between dwelling units.  HVAC Register Boots  Complied \( \subseteq \text{N/A} \) Air barrier is installed in common wall between dwelling units.  HVAC register boots that penetrate building envelope are sealed to subfloor or drywall		☐ Complied ☐ N/A	Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.
HVAC Register Boots  Complied N/A  HVAC register boots that penetrate building envelope are sealed to subfloor or drywall		Complied N/A	and the first demand and the control of the simple control of the
subfloor or drywall	Common Wall	Complied N/A	Air barrier is installed in common wall between dwelling units.
Fireplace Complied N/A Fireplace walls include an air barrier.	HVAC Register Boots	Complied N/A	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall
	Fireplace	Complied N/A	Fireplace walls include an air barrier.

Table 402.4.2 is not required to be submitted to the Building & Codes Department but is to be used as a checklist to field verify the items as noted.

**4. Energy Certificate** – This form is required to be filled out complete and posted on or in the electrical panel box.

Energy I	Efficiency Certificat	te
Permit #		
Address:		
Insulation Ratings		R-Value
ROOF/CEILING	With Attic	R -
	Without Attic	R -
WALLS		
Frame R -	Basement	R -
Mass R -	Crawlspace	R -
<b>FLOORS</b> Over	r Unconditioned Space	R
HVAC DUCTS	Attice Space	R -
Baseme	ents and Crawl Space	R -
Fenestration Ratings	U - Factor	SHGC
Opaque Doors		
Windows		
Skylights		
<b>Equipment Performance</b>		Efficiency
Heating System	HSPF/AFUE	
Cooling System	SEER/COP	
Water Heater/Boiler	EF/Ec or E1	
Builder Signature	·	·
Date:		
Adopted Energy Code Edi	tion:	
THIS CERTIFICATE SHA OR IN THE ELECTRICAI	LL BE PERMANENTLY	Y POSTED ON

**AFUE** = Annual fuel utilization efficiency. Standard measurement of efficiency for gas and oil-fired furnaces. (*Minimum Efficiency of 78% Required*)

**COP** = Coefficient of Performance

**EF** = Energy Factor

**SHGC** = Solar Heat Gain Coefficient

**SEER** = Seasonal Energy Efficiency Ratio is a measure of the cooling efficiency of your air conditoner or Heat Pump. (Minimum 13 SEER Required)

**HSPF** = Heating Seasonal Performance Factor is a measure of the heating efficiency of a heat pump. (Minimum 7.7 HSPF Required)