

Mandatory Requirements - Continued

3. Fireplaces (State Amendment) Wood burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air.	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
4. Fenestration Air Leakage (402.4.4) – Windows, sliding glass doors, skylights < 0.3 cfm/sf	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
5. Fenestration Air Leakage (402.4.4) – Swinging Doors < 0.5 cfm/sf	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
6. Recessed Lighting (402.4.5) – IC Rated, Sealed w/ Gasket or Caulk and Air Tight	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
7. Heating/Cooling System Controls (403.1) – Programmable Thermostat Required	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
8. HVAC Duct Sealing (403.2) – All ducts sealed with approved material	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
9. HVAC Duct Tightness Testing (403.2.2)– CHOOSE ONE <i>Note: Individual performing test is required to be HERS or BPI Certified.</i> <input type="checkbox"/> Post Construction Test – Leakage to outdoors less than or equal to 8 cfm per 100 sf of conditioned floor area or a total leakage of less than or equal to 12 cfm per 100 sf of conditioned floor area at a pressure differential of 25 pascals. Includes Manufacturer's Air Handler Enclosure. <input type="checkbox"/> Rough In Test - Total leakage is less than or equal to 6 cfm per 100 ft2 of conditioned floor area at a pressure differential of 25 pascals including Manufacturer's Air Handler Enclosure. If Air Handler is not installed, total leakage shall be less than or equal to 4 cfm per 100 ft2. Test Performed By: _____ Address: _____ Date Test Was Performed: _____	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
10. Building Cavities (403.2.3) - Building framing cavities shall not be used as supply ducts.	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
11. Mechanical Piping Insulation (403.3) – R3 Minimum	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
12. Circulating Hot Water System (403.4) – Piping insulated R2 minimum	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
13. Mechanical Ventilation (403.5) – Outdoor air intakes/exhaust require dampers.	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
14. Lighting Equipment (404.1) - 50% of the bulbs installed in permanent lighting fixtures shall be high efficiency (CFL's, LED's, etc.)	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
15. HVAC Equipment Sizing (403.6) – HVAC equipment shall be sized based on building loads calculated in accordance with ACCA Manual J.	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A

Builder Signature: _____

Date: _____

3. Prescriptive Requirements

Minimum Fenestration, Insulation and Energy Requirements (Climate Zone 3)

Fenestration U-Factor	0.50	Windows, Opaque Doors, Glazed Doors U = Thermal Transmittance Factor	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Glazed Fenestration SHGC	0.30	SHGC = Solar Heat Gain Coefficient	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Skylight U-Factor	0.65		<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Ceiling Insulation	R30		<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Exterior Wood Frame Wall	R13		<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Floor Over Un-Conditioned Space	R19		<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
HVAC Ducts in Attics	R8	R6 required in unconditioned basements and crawl spaces	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Conditioned Basement Wall	R 5/13	R5 Continuous or R13 Cavity	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Mass Wall	R 5/8		<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Crawl Space Wall (Closed)	R 5/13	R5 Continuous or R13 Cavity	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Slab on Grade Floors	0	R5 For Heated Slabs on Grade	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Cold Formed Steel Framing	Table 402.2.5	Cold Formed Steel Framing R Values meet the requirements of Table 402.2.5	<input type="checkbox"/> Complied	<input type="checkbox"/> N/A
Access Hatches and Doors - Doors from conditioned to unconditioned spaces shall be weather stripped and insulated.			<input type="checkbox"/> Complied	<input type="checkbox"/> N/A

Builder Signature: _____

Date: _____

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

Energy Efficiency Certificate		
Permit # _____		
Address: _____		

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Insulation Ratings	R-Value	
ROOF/CEILING	With Attic	R - _____
	Without Attic	R - _____
WALLS		
Frame	R - _____	Basement R - _____
Mass	R - _____	Crawlspace R - _____
FLOORS	Over Unconditioned Space	R - _____
HVAC DUCTS	Attice Space	R - _____
	Basements and Crawl Space	R - _____
Fenestration Ratings	U - Factor	SHGC
Opaque Doors	_____	_____
Windows	_____	_____
Skylights	_____	_____
Equipment Performance	Efficiency	
Heating System	HSPF/AFUE	_____
Cooling System	SEER/COP	_____
Water Heater/Boiler	EF/Ec or E1	_____
<hr/>		
Builder Signature: _____		
Date: _____		
Adopted Energy Code Edition: _____		
THIS CERTIFICATE SHALL BE PERMANENTLY POSTED ON OR IN THE ELECTRICAL PANEL BOX		

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 conditioner 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)*

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

Table 402.4.2		
Air Barrier and Thermal Barrier	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier.
	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Breaks or joints in the air barrier are filled or repaired.
	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Air permeable insulation is not used as a sealing material. -
	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Air permeable insulation is inside of an air barrier. -
Ceiling/Attic	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Attic access (except unvented attic), knee wall door, or drop down stair is sealed.
Walls	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Corners and headers are insulated.
	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Junction of foundation and sill plate is sealed.
Windows and Doors	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Space between window/door jambs and framing is sealed.
Rim Joists	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Rim Joists are insulated and include an air barrier.
Floors (Including above-garage and cantilevered floors)	<input type="checkbox"/> Complied <input type="checkbox"/> 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)	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Insulation is permanently attached to walls.
	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Exposed earth in unvented crawl spaces is covered with a Class I vapor retarder with overlapping joints taped.
Shafts, Penetrations	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.
Narrow cavities	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.
Garage Separation	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Air sealing is provided between the garage and conditioned spaces.
Recessed Lighting	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Recessed light fixtures are air tight, IC rated, and sealed to drywall. <i>Exception: Fixtures in conditioned space.</i>
Plumbing and Wiring	<input type="checkbox"/> Complied <input type="checkbox"/> 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	<input type="checkbox"/> Complied <input type="checkbox"/> 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	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Air barrier extends behind boxes or air sealed type boxes are installed.
Common Wall	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Air barrier is installed in common wall between dwelling units.
HVAC Register Boots	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall
Fireplace	<input type="checkbox"/> Complied <input type="checkbox"/> N/A	Fireplace walls include an air barrier.

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