



Residential Energy Additional Measure Selection

Department of Consumer and Business Services

Building Codes Division

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RESIDENTIAL INFORMATION

Date: _____ Building permit number: _____

Owner's name: _____

Job address: _____

City: _____ State: _____ ZIP: _____

INSTRUCTIONS

Please select type of construction below; sign, date, and complete the entire form. Submit this form with your permit application or your project will be placed on hold until the required information is provided.

☐ **New construction.** All conditioned spaces within residential buildings must comply with Table N1101.1(1) and two additional measures (one numbered and one lettered) from Table N1101.1(2) on Page 2.

Additions. Additions to existing buildings or structures may be made without making the entire building or structure comply if the new additions comply with the requirements of this chapter. (N1101.3)

☐ **Large additions.** Additions that are equal to or more than 40 percent of the existing building heated floor area or 600 square feet (55 m²) in area, whichever is less, must comply with Table N1101.1(2) on Page 2. (N1101.3.1) (*Note: You must select one numbered **and** one lettered measure.*)

☐ **Small additions.** Additions that are less than 40 percent of the existing building heated floor area or less than 600 square feet (55 m²) in area, whichever is less, must select one measure from Table N1101.1(2) on page 2 or comply with Table N1101.3 below. (N1101.3.2)

☐ **Exception:** Additions that are less than 15 percent of existing building heated floor area or 200 square feet (18.58 m²) in area, whichever is less, are not required to comply with Table N1101.1(2) or Table N1101.3.

Selected item number: _____ **Selected item letter:** _____

Note: Depending on which Additional Measures you have selected, there may be sub-options that you will have to specify. Check the appropriate box if provided.

Applicant's signature: _____ Print name: _____

TABLE N1101.3 – SMALL ADDITION ADDITIONAL MEASURES (SELECT ONE)

<input type="checkbox"/>	1	Increase the ceiling insulation of the existing portion of the home as specified in Table N1101.2.
<input type="checkbox"/>	2	Replace all existing single-pane wood or aluminum windows to the U-factor as specified in Table N1101.2.
<input type="checkbox"/>	3	Insulate the floor system as specified in Table N1101.2 & install 100 percent of permanently installed lighting fixtures as CFL, LED, or linear fluorescent or a minimum efficacy of 40 lumens per watt as specified in Section N1107.2.
<input type="checkbox"/>	4	Test the entire dwelling with a blower door and exhibit no more than 6.0 air changes per hour @ 50 Pascals.
<input type="checkbox"/>	5	Seal and performance test the duct system.
<input type="checkbox"/>	6	Replace existing 78 percent AFUE or less gas furnace with a 92 percent AFUE or greater system.
<input type="checkbox"/>	7	Replace existing electric radiant space heaters with a ductless mini split system with a minimum HSPF of 10.0.
<input type="checkbox"/>	8	Replace existing electric forced air furnace with an air source heat pump with a minimum HSPF of 9.5.
<input type="checkbox"/>	9	Replace existing water heater with a water heater meeting Conservation Measure D [Table N1101.1(2)].



TABLE N1101.1(2) ADDITIONAL MEASURES

Envelope Enhancement Measures (Select One)	<input type="checkbox"/>	1	High-efficiency walls Exterior walls – U-0.045 / R-21 cavity insulation+R-5 continuous
	<input type="checkbox"/>	2	Upgraded features Exterior walls – U-0.057 / R-23 intermediate or R-21 advanced, Framed floors – U-0.026 / R-38, and Windows – U-0.28 (average UA)
	<input type="checkbox"/>	3	Upgraded features Exterior walls – U-0.055 / R-23 intermediate or R-21 advanced, Flat ceiling ^e – U-0.017 / R-60, and Framed floors – U-0.026 / R-38
	<input type="checkbox"/>	4	Super Insulated Windows and Attic OR Framed Floors Windows – U-0.22 (Triple Pane Low-e), and <input type="checkbox"/> Flat ceiling ^e – U-0.017 / R-60 or <input type="checkbox"/> Framed floors – U-0.026 / R-38
	<input type="checkbox"/>	5	Air sealing home and ducts Mandatory air sealing of all wall coverings at top plate and air sealing checklist ^f , and Mechanical whole-building ventilation system with rates meeting M1507.3 or ASHRAE 62.2, and <input type="checkbox"/> All ducts and air handlers contained within building envelope ^d or <input type="checkbox"/> All ducts sealed with mastic ^b
	<input type="checkbox"/>	6	High efficiency thermal envelope UA* Proposed UA is 8% lower than the code UA
Conservation Measures (Select One)	<input type="checkbox"/>	A	High efficiency HVAC system^a <input type="checkbox"/> Gas-fired furnace or boiler AFUE 94 percent, or <input type="checkbox"/> Air source heat pump HSPF 9.5/15.0 SEER cooling, or <input type="checkbox"/> Ground source heat pump COP 3.5 or Energy Star rated
	<input type="checkbox"/>	B	Ducted HVAC systems within conditioned space All ducts and air handlers contained within building envelope ^d <i>Cannot be combined with Measure 5</i>
	<input type="checkbox"/>	C	Ductless heat pump Ductless heat pump HSPF 10.0 in primary zone of dwelling
	<input type="checkbox"/>	D	High efficiency water heater^c <input type="checkbox"/> Natural gas/propane water heater with UEF 0.85 or <input type="checkbox"/> Electric heat pump water heater Tier 1 Northern Climate Specification Product

For SI: 1 square foot = 0.093 m², 1 watt per square foot = 10.8 W/m².

- a. Appliances located within the building thermal envelope shall have sealed combustion air installed. Combustion air shall be ducted directly from the outdoors.
- b. All duct joints and seams sealed with listed mastic; tape is allowed only at appliance or equipment connections (for service and replacement). Meet sealing criteria of Performance Tested Comfort Systems program administered by the Bonneville Power Administration (BPA).
- c. Residential water heaters less than 55-gallon storage volume.
- d. A total of 5 percent of an HVAC system's ductwork shall be permitted to be located outside of the conditioned space. Ducts located outside the conditioned space shall have insulation installed as required in this code.
- e. The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated space floor area unless vaulted area has a U-factor no greater than U-0.026.
- f. Continuous air barrier. Additional requirement for sealing of all interior vertical wall covering to top plate framing. Sealing with foam gasket, caulk, or other approved sealant listed for sealing wall covering material to structural material (example: gypsum board to wood stud framing).
- g. Table N1104.1(1) Standard base case design, Code UA shall be at least 8 percent less than the Proposed UA. Buildings with fenestration less than 15 percent of the total vertical wall area, these buildings may adjust the Code UA to have 15 percent of the wall area as fenestration.