

## HOUSE PERFORMANCE REPORT (PRE-CONSTRUCTION)

### for 9.36.5 or 9.36.6 (Energy Step Code) Energy Performance Compliance

Last updated June 14, 2018

- Instructions**
1. Effective July 1, 2018.
  2. To be submitted at the time of Building Permit application, accompanied with supporting documentation

#### PROJECT INFORMATION

Project Address: 1234 Fulton Ave.

Building Type:  Coach House  Single-family  Duplex  Rowhouse/Townhome  Apartment <4 storeys  Other

BCBC Compliance Pathway:  9.36.5 (COMPLETE SECTION A + B)  
 9.36.6 (Energy Step Code) - Step Pursued: 3 (COMPLETE SECTION A + C)

Total Heated Floor Area: 350 m<sup>2</sup>

Building Height: 2 storeys

Building Permit #: \_\_\_\_\_

COMPLETE IF APPLICABLE

Rezoning, and/or DP Commitment  
Required Performance Metric:

\_\_\_\_\_

#### SECTION A: BUILDING CHARACTERISTICS SUMMARY

Exterior Walls <i>(Construction + Effective R-Value)</i>	2x6, 16" o/c, R22; Header w/ R22	RSI = 2.85
Roof/Attic <i>(Construction + Effective R-Value)</i>	Attic Truss, 24" o/c, R40	RSI = 6.93
Foundation/Below-Grade Walls & Slabs <i>(Construction + Effective R-Value)</i>	8" Concrete, 2x4, 16" o/c, R14; Header w/ R22 Uninsulated Slab Slab Is: <input checked="" type="checkbox"/> Below OR <input type="checkbox"/> Above Frost Line <b>AND</b> <input type="checkbox"/> Heated OR <input checked="" type="checkbox"/> Unheated	RSI = 2.02
Windows, Doors & Skylights <i>(Type + Overall U-Value)</i>	Doors: Steel Insulated Windows: Vinyl, Double Glazed, Argon, Low E, Insulated Spacer	Doors: U 1.4 Win: U 1.13 to 1.36 SGHG = 0.25 to 0.30
Space Conditioning <i>(System Type, Fuel Source, Performance Rating)</i>	Natural Gas Furnace, no cooling Gas fireplace, direct-vented with no standing pilot	Furnace = 95% AFUE Fireplace = 76%
Ventilation <i>(Design basis according to Section 9.32)</i>	HRV	
Hot Water Heating <i>(System Type, Fuel Source, Performance Rating)</i>	On-demand Hot Water Heater, Natural Gas	0.97 EF
Air Barrier System & Location	Interior Polyethylene Membrane Barrier	UV - slab 6 mil polyethylene
Other Energy Impacting Features <i>(Design basis)</i>	N/A	

**SECTION B: 9.36.5 - ENERGY PERFORMANCE COMPLIANCE** (complete if applicable)

Energy Modeling Software (Version): \_\_\_\_\_ Climatic data (location): \_\_\_\_\_

Reference Building	Proposed Building
HVAC <i>(Energy Use + Fuel Source)</i>	HVAC <i>(Energy Use + Fuel Source)</i>
Hot Water Heating <i>(Energy Use + Fuel Source)</i>	Hot Water Heating <i>(Energy Use + Fuel Source)</i>
<b>TOTAL</b> <i>(Energy Use in GJ)</i>	<b>TOTAL</b> <i>(Energy Use in GJ)</i>

FDWR of the Reference House \_\_\_\_% (Between 17 – 22%) FDWR of the Proposed House \_\_\_\_%

**SECTION C: 9.36.6 (ENERGY STEP CODE) - ENERGY PERFORMANCE COMPLIANCE** (complete if applicable)

Energy Consumption: Reference: 53 (GJ/year) Proposed: 44 (GJ/year)  
(if using the EnerGuide Rating System)

Metric		Units	Required <small>(by local bylaw)</small>	Proposed
Step Code Level		1-5	3	3
Airtightness		ACH @ 50 Pa	2.5	1.8
Building Equipment and Systems	ERS Improvement over Reference House OR	% lower	20	17.1
	OR			
	Mechanical Energy Use Intensity (MEUI)	kWh/(m <sup>2</sup> ·yr)	45	38
Building Envelope	Thermal Energy Demand Intensity (TEDI) OR	kWh/(m <sup>2</sup> ·yr)	40	26
	OR			
	Peak Thermal Load (PTL)	W/m <sup>2</sup>	30	21

*For Passive House, please check the box below.*

The Passive House Planning Package (PHPP), Version 9 or newer, and the energy model was prepared by a Certified Passive House Designer or Certified Passive House Consultant approved by the Passive House Institute. (9.36.6.3.(3))

**DESIGN CONFIRMATION** (applicable to all compliance pathways)

*The undersigned has produced and/or reviewed the House Performance Evaluation for the above-mentioned project, created based on the project's design as provided by the Designer of Record. The undersigned has verified that the project substantially complies with the Subsection 9.36. of Division B, as detailed in the 2012 BC Building Code.*

Signature: Jane Smith

Name: Jane Smith (please print) Date Signed: June 15, 2018

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SO: CHBA BC ID# 510X