

BC ENERGY COMPLIANCE REPORT - PERFORMANCE PATHS FOR PART 9 BUILDINGS

For Buildings Complying with Subsection 9.36.5. or 9.36.6. of the 2012 BC Building Code (see BCBC Article 2.2.8.3. of Division C)

A: PROJECT INFORMATION

Building Permit #: _____ **Building Type:** **Single Detached**
Builder: Paul Denchuck, Thinkbright Solutions **If Other, Please Specify:** _____
Project Address: 2130 Westside Park View **Number of Dwelling Units:** 1
Municipality / District: Invermere **Climate Zone:** 6
Postal Code: V0A1K4 **PID or Legal Description:** _____

BC Building Code Performance Compliance Path (select one):

9.36.5. → Complete Sections A, B, C, & E
 9.36.6. → Complete Sections A, B, D, & E

Software Name: Hot2000 **Version:** 15 **Climatic Data (Location):** Cranbrook

B: BUILDING CHARACTERISTICS SUMMARY (see BCBC Clause 2.2.8.3.(2)(b) of Division C)

	DETAILS (ASSEMBLY / SYSTEM TYPE / FUEL TYPE / ETC.)	EFFECTIVE RSI-VALUE / EFFICIENCY
EXTERIOR WALLS & FLOOR HEADERS	Double 2x4 stud wall w/ 3.5" cavity. 3x R12 FG Batt Header = R36 FG batt	7 7
ROOF / CEILINGS	2x4 trusses @24"oc, 24" Blow in insulation	14.5
FOUNDATION WALLS, HEADERS, & SLABS	ICF, R24 below slab Slab Is: <input checked="" type="checkbox"/> Below OR <input type="checkbox"/> Above Frost Line AND <input type="checkbox"/> Heated OR <input checked="" type="checkbox"/> Unheated	3.6
FLOORS OVER UNHEATED SPACES	2x10, R36 FG batt	6.5
FENESTRATION & DOORS	Triple pane low E, Argon FDWR: 15 %	
AIR BARRIER SYSTEM & LOCATION	House wrap, exterior	
SPACE CONDITIONING (HEATING & COOLING)	Mini split heat pump with electric baseboard	
SERVICE WATER HEATING	Electric tank	
VENTILATION	HRV	
OTHER ENERGY IMPACTING FEATURES	.8 ACH @50Pa	

The above information is correct based on a site evaluation completed on (dd/mm/yyyy): 19/04/2018

C: 9.36.5. ENERGY PERFORMANCE COMPLIANCE (see Clause 2.2.8.3.(2)(c) of Division C)

Complete this section only if using the Energy Performance Compliance Path in Subsection 9.36.5.

AS-BUILT HOUSE RATED ENERGY CONSUMPTION (GJ/YEAR)	
HVAC	
Hot Water Heating	
SUM	

REFERENCE HOUSE RATED ENERGY TARGET (GJ/YEAR)	
HVAC	
Hot Water Heating	
SUM	

The airtightness value used in the energy model calculations for the As-Built House is:

4.5 ACH @ 50Pa 3.5 ACH @ 50Pa **OR** Tested At .8 ACH @ 50Pa

The above calculation was performed in compliance with Subsection 9.36.5. of Division B: Yes No

D: 9.36.6. ENERGY STEP CODE COMPLIANCE (see Sentence 2.2.8.3(3) of Division C)

Complete this section only if using the Energy Step Code Compliance Path in Subsection 9.36.6.

As-Built House Rated Energy Consumption (GJ/year): 26 Reference House Rated Energy Target (GJ/year): 59

METRIC	UNITS	REQUIRED	PROPOSED	AS-BUILT
Step Code Level	Step 1, 2, 3, 4, or 5	4		
Mechanical Energy Use Intensity (MEUI)	kWh/(m ² -year)	55 (max)	48	48
ERS Rating % Lower Than EnerGuide Reference House, <i>where applicable</i>	%	40 (min)	56.7	56.7
Thermal Energy Demand Intensity (TEDI)	kWh/(m ² -year)	50 (max)	32	32
Peak Thermal Load (PTL)	W/m ²	45 (max)	31	31
Airtightness in Air Changes per Hour at 50 Pa differential	ACH @ 50 Pa	1.5 (max)	.8	.8
Step Code Requirements Met:			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

The above calculation was performed in compliance with (see Clause 2.2.8.3.(2)(e) of Division C)

Select One:

- Subsection 9.36.5.,
- 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,
- The EnerGuide Rating System (ERS), version 15 or newer, or
- The applicable requirements of NECB Part 8 and the City of Vancouver Energy Modelling Guidelines.

E: COMPLETED BY

Full Name (Print): Nate Sereda
 Company Name: EnergyAdvise
 Phone: 2503425156
 Address: _____
 Email: nate@energyadvise.ca
 Date (dd/mm/yyyy): 19/04/2018

If applicable, enter ERS information:
 Advisor ID Number: 6618
 Service Organization: _____
 EnerGuide P #: _____
 EnerGuide N #: _____

SUPPLEMENTARY INFORMATION

Supplementary information is not required for Code Compliance but may be requested by the local municipality/district.

If required, complete the applicable sections below.

F: OTHER ENERGY MODELLING METRICS

METRIC	UNITS	PROPOSED	AS-BUILT
Airtightness NLA@10Pa	cm ² /m ²		.3
EnerGuide Rating	GJ/year		51
EnerGuide Reference House	GJ/year		85
EnerGuide Rating % Lower Than EnerGuide Reference House with baseloads	%		40
Rated Energy Intensity	GJ/m ² /year		.36
Rated Greenhouse Gas Emissions	kg/year		317
Rated Greenhouse Gas Intensity	kg/m ² /year		2.1

G: OPTIONAL CERTIFICATIONS

PENDING:

BUILTGREEN®, Level: _____

Certified Passive House

CHBA Net Zero House

ENERGY STAR® for New Homes

LEED® Canada for Homes, Level: _____

R2000

Other: _____