



**BC STEP CODE COMPLIANCE CHECKLIST
- PERFORMANCE PATHS FOR PART 9
BUILDINGS**



A: PROJECT INFORMATION

Building Permit #:	
Builder:	TBA
Project Address:	3631 Goldstream Heights Dr
Municipality / District:	Capital Regional District
Postal Code:	V0R 2L0
PID or Legal Description:	

Pre Construction

Building Type
Single Detached w/Secondary Suite

of Dwelling Units: 2

B: CODE COMPLIANCE SUMMARY

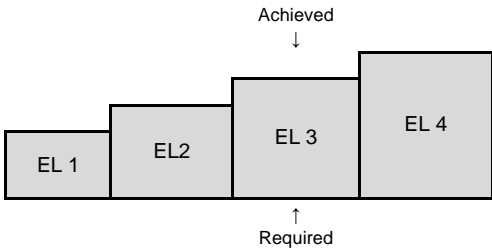
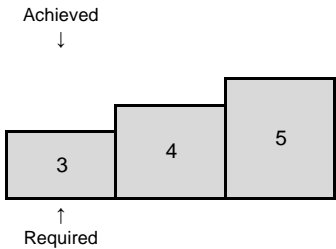
BC Building Code Performance Compliance Path:
9.36.6. BC Energy Step Code ERS

Energy Step Code
Step Required
3

Zero Carbon Step Code
Level Required
EL 3 - Strong

Proposed Step Achieved
3

Proposed Level Achieved
EL 3 - Strong



Based on info provided by the builder & the following drawings:

Plan Author	Unspecified
Plan Version	
Plan Date	Unspecified

C: COMPLETED BY

Full Name (Print):	Reed Cassidy	Date (YYYY-MM-DD):	2024-04-15
Company Name:	Adapt Energy Advising	Service Organisation:	CHBA-BC
Phone:	250-516-0208	Energy Advisor ID #:	51A1
Address:	2740 Fifth St, Victoria, BC V8T 4B2	CODECO placed in Field 8 of H2K <input checked="" type="checkbox"/>	
Email:	info@adaptenergyadvising.com		

P File #

D: BUILDING CHARACTERISTICS SUMMARY

	Details (Assembly / System Type / Fuel Type / Etc.)	Average Effective RSI		
Roof / Ceilings	1/2" gyp, wood truss @ 24" w/ R40 blown cellulose	7.09		
Above Grade Walls	1/2" gyp, w. stud 2x6 @ 16" w/ R20 batt, 7/16" OSB, r.s., clad	3.12		
	1/2" gyp, w. stud 2x6 @ 16" w/ R20 batt, 1/2" gyp	2.82		
Rim Joists / Floor Headers and Lintels	R20 batt, rim, 7/16" OSB, r.s., clad	5.07		
	R20 batt, rim, 7/16" OSB	3.93		
Floors Over Unheated Space	Wood, 5/8" OSB, w. joist 2x10 @ 16" w/ R28 batt, soffit or 1/2" gyp	4.95		
Walls Below Grade	8" concrete, w. stud 2x6 @ 16" w/ R20 batt, 1/2" gyp	3.47		
Slabs	4" concrete, 3" EPS perimeter coverage w/ thermal break	2.11		
		Performance Values		
Windows and glazed doors	Double pane, argon fill, metal spacer	USI	SHGC	
		1.36	0.26	
Doors	Metal with medium density foam core	RSI		
Air Barrier System & Location	Interior polyethylene membrane	ACH	2.50	
		NLA	1.55	
		NLR	1.16	
Space Heating/ Cooling	Principal Main suite	HSPF	7.10	
	A2A heat pump, central split w/ electric furnace		SEER	14.00
	Supplementary Secondary suite	-		
	Electric baseboards		-	100.00
Domestic Hot Water	Electric storage tank, 50 Gal	EF		
	Natural gas, instantaneous, condensing			
Ventilation	Main suite: Heat recovery ventilator	% EFF	L/s	
	Secondary suite: Passive supply, bathroom exhaust	75/65 & 0	35 & 21	
Other	None at this time			
Fossil Fuels	Fossil fuel use and infrastructure is unknown at this time			

E: 9.36.5. ENERGY PERFORMANCE COMPLIANCE

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

Proposed House Energy Consumption (GJ/year)	
HVAC	
DHW Heating	
SUM	0

Reference House Rated Energy Target (GJ/year)	
HVAC	
DHW Heating	
SUM	0

The airtightness value used in the energy model calculations for the Proposed house is:
 Or Testing Target: 2.50

The above calculation was performed in compliance with Subsection 9.36.5. of Division B:

F: 9.36.6. ENERGY STEP CODE COMPLIANCE

Proposed House Rated Energy Consumption (GJ/year): 54 Reference House Rated Energy Target (GJ/year): 83

			Proposed Calculations	
Proposed House Metrics	Unit	Proposed Step Requirement	Proposed House Result	Proposed House Pass or Fail
Step Code Level	Step 3, 4 or 5	3		Fail
Mechanical Energy Use Intensity (MEUI)	kWh/(m ² .year)	70 (max)	31	Pass
% Improvement	%	20 (min)	35	
Thermal Energy Demand (TEDI)	kWh/(m ² .year)	41 (max)	34	Pass
% Heat Loss Reduction	%	10 (min)	0	
Airtightness in Air Changes per Hour at 50 Pa differential	ACH @ 50 Pa	2.5 (max)	2.50	
Normalized Leakage Area (NLA ₁₀)	10 Pa (cm ² /m ²)	1.2 (max)	1.55	Pass
Normalized Leakage Rate (NLR ₅₀)	L/s/m ²	0.89 (max)	1.16	
Step Code Requirements Met:				Yes

Software Used: Hot 2000 Version: 11.12

Heated Floor Area (m²) 477.40 Climate Data (Location): MALAHAT
 Building Volume (m³) 1284.70 Degree Days Below 18°C (HDD): 3144
 Building Surface Area (m²) 771.40
 FWDR: 25.8% % Of Space Cooled More than 50%

G: ZERO CARBON STEP CODE

			Proposed Calculations	
Proposed House Metrics	Unit	Proposed Level Requirement	Proposed House Result	Proposed House Pass or Fail
Zero Carbon Step Code Level	EL-1 - EL-4	EL 3 - Strong		
Total GHG	kg CO _{2e} / year	880 (max)	258	Pass
CO _{2e} per floor area with max	Per Floor area	2.5 (max)	0.5	Pass
	Max	1600 (max)	258	
Prescriptive	Heating	Zero Carb	Zero Carb	Pass
	Hot Water	Zero Carb	Zero Carb	
	All building systems, equipment and appliances	NA	Zero Carb	
Target Reached:				Yes