



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



A: PROJECT INFORMATION

Building Permit #: _____
Builder: Twin Lions Contracting
Project Address: _____
Municipality / District: _____
Postal Code: _____
PID or Legal Description: _____

As Built

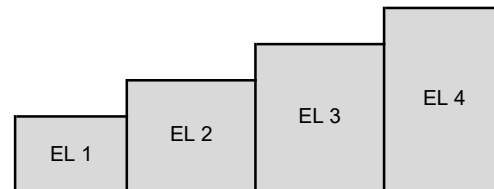
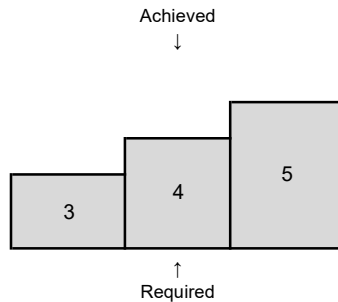
Building Type
 Single Detached
of Dwelling Units: 1

B: CODE COMPLIANCE SUMMARY

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

Energy Step Code	
Step Required	4
Step Achieved	4

Zero Carbon Step Code	
Level Required	EL 1 - Measure Only
Level Achieved	EL 1 - Measure Only



Based on info provided by the builder & drawings prepared by: Kershcbauer Design
Site Visit Date 2024 08 26

C: COMPLETED BY

Full Name (Print): Franklin Landry **Date (YYYY-MM-DD):** 2024-05-07
Company Name: Capital Home Energy **Service Organisation:** Capital Home Energy
Energy Advisor ID #: 1T11
CODECO placed in Field 8 of H2K x

N File # 1T11E00096

D: BUILDING CHARACTERISTICS SUMMARY

	Details (Assembly / System Type / Fuel Type / Etc.)	Average Effective		
		RSI		
Roof / Ceilings	Attic: 2X4 truss @ 24" o/c R-60 batt, 12" heel Flat/Vault: 2x12 @ 16" o/c R-56 batt	9.78		
Above Grade Walls	2x6 @ 16" o/c R-24 batt or spray foam	3.38		
Rim Joists / Floor Headers and Lintels	Same as AG walls	3.38		
Floors Over Unheated Space	2" R-8 EPS, 2x10 @ 16" o/c R-28 batt	6.54		
Walls Below Grade	Wall: 2" R-10 GPS, 2x4 @ 16" o/c R-14 batt; pony wall: 2x8 @ 24" o/c R-28 batt/foam	2.70		
Slabs	slab: 2.5" R-12.5 XPS	2.70		
		Performance Values		
Windows and glazed doors	Windows: USI: 1.00 or lower, SHGC 0.25 or higher	USI	SHGC	
		0.91	0.19	
		0.97	0.16	
		1.25	0.22	
Doors	Doors: R-4.8 or higher insulated core			
Air Barrier System & Location	Poly Vapour barrier and spray foam	ACH	1.09	
		NLA	0.52	
		NLR	0.38	
Space Heating/ Cooling	Principal element	Electric Air Source heat pump, backup electric	HSPF	11.57
			SEER	16.72
	Supplementary	Advanced airtight wood stove	SSE	0.65
Domestic Hot Water	Electric integrated heat pump hot water tank	UEF	3.88	
Ventilation	HRV @75 CFM	% EFF	L/s	
		81.00	30.20	
Other	Solar panels for NZ compliance			
Fossil Fuels	The building including all units has NO fossil fuel use or infrastructure			

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 Tested At: 1.50 _____

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

F: 9.36.6. ENERGY STEP CODE COMPLIANCE

As Built House Rated Energy Consumption (GJ/year): 15 Reference House Rated Energy Target (GJ/year): 57

Proposed House Metrics	Unit	As Built Step Requirements	As-built Calculations	
			As-built House Result	As-built House Pass or Fail
Step Code Level	Step 3, 4 or 5	4		
Mechanical Energy Use Intensity (MEUI)	kWh/(m ² ·year)	45 (max)	13	Pass
% Improvement	%	40 (min)	78	
Thermal Energy Demand (TEDI)	kWh/(m ² ·year)	27 (max)	27	Pass
% Heat Loss Reduction	%	20 (min)	34	
Airtightness in Air Changes per Hour at 50 Pa differential	ACH @ 50 Pa	1.5 (max)	1.1	Pass
Normalized Leakage Area (NLA ₁₀)	10 Pa (cm ² /m ²)	0.72 (max)	0.5	
Normalized Leakage Rate (NLR ₅₀)	L/s/m ²	0.53 (max)	0.4	
Step Code Requirements Met:			Yes	

Software Used: Hot 2000 Version: 11.12
 Heated Floor Area (m²) 261.30 Climate Data (Location): PITT MEADOWS
 Building Volume (m³) 740.40 Degree Days Below 18°C (HDD): 2851
 FWDR: 23.5% % Of Space Cooled More than 50%

G: ZERO CARBON STEP CODE

Proposed House Metrics	Unit	Proposed Level Requirement	Proposed Calculations	
			Proposed House Result	Proposed House Pass or Fail
Zero Carbon Step Code Level	EL-1 - EL-4	EL 1 - Measure Only		
Total GHG	kg CO _{2e} / year	NA (max)	125	Pass
CO _{2e} per floor area with max	Per Floor area	kg CO _{2e} /m ² /year	0.5	Pass
	Max	kg CO _{2e}	125	
Perscriptive	Heating	NA	Zero Carb	Pass
	Hot Water	NA	Zero Carb	
	All building systems, equipment and appliances	NA	Carbon	
Target Reached			Yes	