## **BC ENERGY COMPLIANCE REPORT - PERFORMANCE PATHS FOR PART 9 BUILDINGS**

Revised July 15, 2020

For Buildings Complying with Subsection 9.36.5. or 9.36.6. of the 2018 BC Building Code (see BCBC Article 2.2.8.3. of Division C)

A: PROJECT INFORM	ATION						
Building Permit #: 123456 Building Type*:			Si	Single Detached			
Builder:	ABC I	ABC Design		If Other, Please Specify:			
Project Address: 1234 Fulton Av		ılton Ave		Number of Dwelling Units:		1	
Municipality / District: West Vancouver			Climate Zone: 4 - Les			- Less than 3000	
Postal Code:	V1V	′ 1V1		Heating Degree Days:			2,950
PID or Legal Description	n: 010-1	23-456		Floor Area of Conditio	ned Space	(m²):	385.66
BC Building Code Performance Compliance Path:  (Select boxes that apply)  *Building Type must be selected in populate this report correctly*					ed in ord	er to auto	
☑ 9.36.6.	Complete Sections A, I	B, D, & E					
□ 9.36.5., NOT com	plying with Step Code	$\longrightarrow$	Complet	te Sections A, B, C, & E			
□ 9.36.5., complyin	g with Step Code	$\longrightarrow$	Complet	te Sections A, B, C, D & E			
Software Name:	HOT2000	Version:	11.10	Climatic Data (Loca	ition):	West Va	ancouver, BC
B: BUILDING CHARA	CTERISTICS SUMMAI	RY (see BCBC	Clause 2.2	.8.3.(2)(b) of Division C)			
	Details (	Assembly / S	System Ty	pe / Fuel Type / Etc.)			Eff R <sub>SI</sub> , U <sub>SI</sub> , SHGC, etc
	Exterior Walls: 2x6 @ 16 Floor Headers: R-24 insu	•	att insulatio	on, Stucco cladding		Effective R <sub>SI</sub>	RSI-3.50 RSI-4.15
	Roof / Ceilings					Effective R <sub>SI</sub>	RSI-6.62 RSI-5.84
	Foundation Walls: 8" co					Effective	RSI-1.85
Headers, & Slabs Slab-on-grade: 3" EPS insulation (R-12) below full slab area R <sub>SI</sub> Slab Is: ☑ Below OR ☐ Above Frost Line ☑ Heated OR ☐ Unheated					RSI-2.10		
Floors Over	Slab is.   Below O	K 🗀 Above	: FTOST LITTE	e ☑ Heated <b>OR</b> □	Officated	Effective	
Unheated Spaces	TJI 11.875" @ 16" o.c., R	-28 2 lb spray	foam insu	lation		R <sub>SI</sub>	RSI-5.89
	Windows: USI-1.48 or le		or more			U <sub>SI</sub>	USI-1.48
& Doors	Exterior Doors: U-1.20 o	r less				SHGC	SHGC 0.42
Air Barrier System & Location	Interior sealed poly air a	nd vapour ba	rrier				
	Space Heating: Condens Air-Source Heat Pump: H					% , HSPF, or SEER	2.87 System COP
Service Water Heating	Natural gas storage tank	(R-10 insulat	ion wrap)			EF or % eff	EF 0.80
Ventilation	Heat recovery ventilator Kitchen exhaust fan 50 L						SRE@ 0C 60% SRE @ -25C 55%
	Hydronic floor heating @ Two natural gas fireplace			E			
Based on information pr	ovided by the builder ar	nd drawings p	repared by	y	ABC Des	ign	
				Dated (YYYY/MM/D	D)	202	1/02/28

# SAMPLE DOCUMENT FOR INSTRUCTIVE PURPOSES ONLY

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

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

Proposo	d House En	oray Consun	nption (GJ/year)		Reference House Ra	tod Enor	m, Tar	rot (GI/voor)	$\Box$
HVAC	u House Life	ligy Consum	iption (GJ/ year)		HVAC	leu Liiei	gy raig	get (GJ/ year)	<u>'</u>
Hot Water	Heating				Hot Water Heating				
SUM	reating		-		SUM			_	
The airtightness value used in the energy model calculations for the									
•		•			·				
□ 4.5 ACH @ 50Pa □ 3.5 ACH @ 50Pa OR □ Tested AtACH @ 50Pa									
The above calculation was performed in compliance with Subsection 9.36.5. of Division B:									
D: 9.36.6. ENERGY STEP CODE COMPLIANCE (see BCBC Sentence 2.2.8.3.(3) of Division C)									
Complete this secti	on if using t	the Energy S	tep Code Complian	ce P	ath in Subsection 9.36	.6.			
<b>If using 9.36.5</b> to co	omply with 9	9.36.6, print	and manually fill in	the t	able below. The table	below aut	o-fills	from the	
calculator workshe	ets and the f	fields cannot	be overwritten.						
Rated Energy Cor	sumption (	GJ/year):	Proposed House	45	Reference House	55		HDD: 2,9	950
Metric					Units	Requ	ired	Propo	sed
Step Code Level					Step 1, 2, 3, 4, or 5	3		3	
Mechanical Energy	Use Intensit	y (MEUI)			kWh/(m²·year)	55	(max)	32	-
ERS Rating % Lower T	han EnerGuid	de Reference	House, where applica	ible	%	20	(min)	18.	2
Thermal Energy De	mand Intens	sity (TEDI)			kWh/(m²·year)	30	(max)	29	,
Adjusted TEDI					kWh/(m²·year)	39	(max)	29	,
Building Envelope %	6 Better				%	10	(max)	18	;
Airtightness in Air Changes per Hour at 50 Pa differential				ACH @ 50 Pa	2.5	(max)	2.5	5	
Step Code Design Requirements Met: Yes						Yes			
The above calculation was performed in compliance with (see BCBC 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.  The "Instructions for Modelling Attached Ground Oriented Part 9 Resdiential Buildings" (found in Section 6 of the BC Energy Compliance Reports Instruction Manual)									
						0115 1 5 1			
Full Name (Print):		Jane Smit			rvice Organization:	CHBA BO		h.: 15 #	4224
Company Name:	XY	Z Energy Ad			rvice Organization #:	1234		lvisor ID #:	1234
Phone:		604-123-45	67		EnerGuide P-file #'s:		1234	P0100	

Note: The same EA will have different ID #s with different SOs

1234 Main Street jsmith@xyz.ca

28/02/2021

Address:

Date (dd/mm/yyyy)

CODECO entered into Info Field 8 of HOT 2000

Email:

# SAMPLE DOCUMENT FOR INSTRUCTIVE PURPOSES ONLY

#### **SUPPLEMENTARY INFORMATION**

Supplementary information is not required for Code Compliance but may be requested by the local municipality/district. Where applicable, all metrics within Section F are calculated with baseloads included. If required, complete the applicable sections below.

### F: OTHER ENERGY MODELLING METRICS

#	Metric	Units	Reference House	Proposed House
1	Normalized Leakage Area (NLA) @10Pa	cm²/m²	1.58	1.07
2	Rated Greenhouse Gas Emissions	kg/year	2670	900
3	Rated Greenhouse Gas Intensity	kg/m²/year	6.92	2
4	Rated Energy Use Intensity	GJ/m²/year	0.19	0.17
5	Peak Thermal Load (PTL)	W/m <sup>2</sup>	0	-
6	% of the Building's Conditioned Space Served by Space- Cooling Equipment	%	N/A	More than 50%
7	% Lower Than Reference House With Baseloads Included	%	N/A	13.3%

#	Energy Source	Reference House Energy Consumption (GJ/year)	Proposed House Energy Consumption (GJ/year)
	Electricity	34.80	56.80
	Natural Gas	96.4	16.4
	Propane	-	-
8	District Energy	N/A	-
	On-Site Renewables	N/A	-
	Other:	-	-
	Total	131.2	73.2

### **G: OPTIONAL CERTIFICATIONS**

PENDING		PENDING	i
	BUILTGREEN®, Level:		ENERGY STAR® for New Homes
	Certified Passive House		LEED® for Homes
	CHBA Net Zero House		R2000
			Other: