

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

For use by Principal Authority	
Application No:	Model/Certification Number

A. Project Information BAYVIEW WELLINGTON RL-6E ELEV. B (13049)		
Building number, street name	Unit number	Lot/Con
Municipality INNISFIL	Postal code	Reg. Plan number / other description

B. Prescriptive Compliance [indicate the building code compliance package being employed in this house design]
SB-12 Prescriptive (input design package): Package: <u>A1</u> Table: _____

C. Project Design Conditions		
Climatic Zone (SB-1): ☒ Zone 1 (< 5000 degree days) ☐ Zone 2 (≥ 5000 degree days)	Heating Equipment Efficiency ☒ ≥ 92% AFUE ☐ ≥ 84% < 92% AFUE	Space Heating Fuel Source ☒ Gas ☐ Propane ☐ Solid Fuel ☐ Oil ☐ Electric ☐ Earth Energy
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area		Other Building Characteristics
Area of walls = <u>363.34</u> m² or <u>3911.00</u> ft²	W, S & G % = <u>10.90</u>	☐ Log/Post&Beam ☐ ICF Above Grade ☐ ICF Basement ☐ Slab-on-ground ☐ Walkout Basement ☐ Air Conditioning ☐ Combo Unit ☐ Air Sourced Heat Pump (ASHP) ☐ Ground Sourced Heat Pump (GSHP)
Area of W, S & G = <u>39.60</u> m² or <u>426.29</u> ft²	Utilize window averaging: ☐ Yes ☒ No	

D. Building Specifications [provide values and ratings of the energy efficiency components proposed]				
Energy Efficiency Substitutions				
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6))				
☐ Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7))				
☐ Airtightness substitution(s) Airtightness test required (Refer to Design Guide Attached)	☐ Table 3.1.1.4.B Required: _____ Permitted Substitution: _____			
	☐ Table 3.1.1.4.C Required: _____ Permitted Substitution: _____			
	Required: _____ Permitted Substitution: _____			
Building Component	Minimum RSI / R values or Maximum U-Value⁽¹⁾		Building Component	Efficiency Ratings
Thermal Insulation	Nominal	Effective	Windows & Doors Provide U-Value ⁽¹⁾ or ER rating	
Ceiling with Attic Space	60		Windows/Sliding Glass Doors	1.6
Ceiling without Attic Space	31		Skylights/Glazed Roofs	0.49
Exposed Floor	31		Mechanicals	
Walls Above Grade	22		Heating Equip.(AFUE)	96%
Basement Walls	20 ci		HRV Efficiency (SRE% at 0° C)	75%
Slab (all >600mm below grade)	N/A		DHW Heater (EF)	0.80
Slab (edge only ≤600mm below grade)	10		DWHR (CSA B55.1 (min. 42% efficiency))	1 # Showers 2
Slab (all ≤600mm below grade, or heated)	10		Combined Heating System	

(1) U value to be provided in either W/(m²•K) or Btu/(h•ft²•F) but not both.

E. Designer(s) [name(s) & BCIN(s), if applicable, of person(s) providing information herein to substantiate that design meets the building code]		
Qualified Designer Declaration of designer to have reviewed and take responsibility for the design work.		
Name VA3 DESIGN INC	BCIN 25591	Signature 