

# 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

<b>A. Project Information</b> BAYVIEW WELLINGTON RL-2 ELEV. B2 (13049)			
Building number, street name		Unit number	Lot/Con
Municipality INNISFIL	Postal code	Reg. Plan number / other description	

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

<b>C. Project Design Conditions</b>		
<b>Climatic Zone (SB-1):</b> <input checked="" type="checkbox"/> Zone 1 (< 5000 degree days) <input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<b>Heating Equipment Efficiency</b> <input checked="" type="checkbox"/> ≥ 92% AFUE <input type="checkbox"/> ≥ 84% < 92% AFUE	<b>Space Heating Fuel Source</b> <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
<b>Ratio of Windows, Skylights &amp; Glass (W, S &amp; G) to Wall Area</b>		<b>Other Building Characteristics</b>
Area of walls = <b>301.68</b> m² or <b>3247.33</b> ft²	W, S & G % = <b>10.34</b>	<input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement <input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit <input type="checkbox"/> Air Sourced Heat Pump (ASHP) <input type="checkbox"/> Ground Sourced Heat Pump (GSHP)
Area of W, S & G = <b>31.20</b> m² or <b>335.87</b> ft²	Utilize window averaging: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

<b>D. Building Specifications</b> [provide values and ratings of the energy efficiency components proposed]				
<b>Energy Efficiency Substitutions</b>				
<input type="checkbox"/> ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6))				
<input type="checkbox"/> Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7))				
<input type="checkbox"/> Airtightness substitution(s)  Airtightness test required (Refer to Design Guide Attached)	<input type="checkbox"/> Table 3.1.1.4.B Required: _____ Permitted Substitution: _____			
	<input type="checkbox"/> Table 3.1.1.4.C Required: _____ Permitted Substitution: _____			
	Required: _____ Permitted Substitution: _____			
<b>Building Component</b>	<b>Minimum RSI / R values or Maximum U-Value<sup>(1)</sup></b>		<b>Building Component</b>	<b>Efficiency Ratings</b>
<b>Thermal Insulation</b>	Nominal	Effective	<b>Windows &amp; Doors</b> Provide U-Value <sup>(1)</sup> 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		<b>Mechanicals</b>	
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.

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