

## 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 S42-19C ELEV. A (13045)

Building number, street name	Unit number	Lot/Con
Municipality <b>BRADFORD</b>	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: **A1** Table: \_\_\_\_\_

### C. Project Design Conditions

Climatic Zone (SB-1):	Heating Equipment Efficiency	Space Heating Fuel Source
<input checked="" type="checkbox"/> Zone 1 (< 5000 degree days) <input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input checked="" type="checkbox"/> ≥ 92% AFUE <input type="checkbox"/> ≥ 84% < 92% AFUE	<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
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area	Other Building Characteristics	
Area of walls = <b>428.65</b> m <sup>2</sup> or <b>4614.00</b> ft <sup>2</sup>  Area of W, S & G = <b>59.34</b> m <sup>2</sup> or <b>638.71</b> ft <sup>2</sup>	W, S & G % = <b>13.84</b>  Utilize window averaging: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <div> <input type="checkbox"/> Log/Post&amp;Beam    <input type="checkbox"/> ICF Above Grade    <input type="checkbox"/> ICF Basement  <input type="checkbox"/> Slab-on-ground    <input checked="" 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)           </div>	

### D. Building Specifications [provide values and ratings of the energy efficiency components proposed]

Energy Efficiency Substitutions				
<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: _____				
Building Component	Minimum RSI / R values or Maximum U-Value <sup>(1)</sup>	Building Component	Efficiency Ratings	
<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	0.28	
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 <b>1</b>
Slab (all ≤600mm below grade, or heated)	10	Combined Heating System		

(1) U value to be provided in either W/(m<sup>2</sup>•K) or Btu/(h•ft<sup>2</sup>•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 <b>VA3 DESIGN INC</b>	BCIN <b>25591</b>	Signature 