



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/sideights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

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

A. Project Information

Building number, street name	Postal code	Reg. Plan number/ other description	Unit number	Lot/Con
133 MINIKAN STREET				172
GLOUCESTER		44-1617		

B. Prescriptive Compliance [Indicate the building code compliance package being employed in this house design]

SB-12 Prescriptive (input design package):	Package: A1	Table: 3.1.1.2.A (IP)
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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 checked="" type="checkbox"/> ≥ 92% AFUE	<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel
<input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input type="checkbox"/> ≥ 84% < 92% AFUE	<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 = 285.18 m ² or _____ ft ²	<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)	
Area of W, S & G = 26.5 m ² or _____ ft ²	Utilize window averaging: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Ground Sourced Heat Pump (GSHP)	

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 ☐ Table 3.1.1.4.B Required: _____ Permitted Substitution: _____

(Refer to Design Guide Attached) ☐ Table 3.1.1.4.C 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	R60		Windows/Sliding Glass Doors 25
Ceiling without Attic Space	R31		Skylights/Glazed Roofs 0.49
Exposed Floor	R31		Mechanicals
Walls Above Grade	R22		Heating Equip.(AFUE)
Basement Walls		R21.12	HRV Efficiency (SRE% at 0° C) 75%
Slab (all >600mm below grade)	--		DHW Heater (EF) 0.8
Slab (edge only ≤600mm below grade)	1.0		DWH/HR (CSA B55.1 (min. 42% efficiency))
Slab (all ≤600mm below grade, or heated)	1.0		Combined Heating System NO

(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, or 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	BCIN	Signature
CATHERINE BUCK	46674	