



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 46 SOPWITH PRIVATE	Unit number 46
Municipality WEST CARLETON	Reg. Plan number / other description 4M-1593

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	
☒ Zone 1 (< 5000 degree days)		☒ ≥ 92% AFUE		☒ Gas	☐ Propane
☐ Zone 2 (≥ 5000 degree days)		☐ ≥ 84% < 92% AFUE		☐ Oil	☐ Electric
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area		Other Building Characteristics			
Area of walls = 3209 m ² or 3209 ft ²		☐ Log/Post&Beam ☐ ICF Above Grade ☐ ICF Basement			
Area of W, S & G = 398.7 m ² or 274 ft ²		☐ Slab-on-ground ☐ Walkout Basement			
		☐ Air Conditioning ☐ Combo Unit			
		☐ Air Sourced Heat Pump (ASHP)			
		☐ 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 (Refer to Design Guide Attached)	
☐ Table 3.1.1.4.B Required:	Permitted Substitution:
☐ 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)		96%	
Basement Walls		10+12ci	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)		10		DWHR (CSA B55.1 (min. 42% efficiency))		# Showers	
Slab (all ≤600mm below grade, or heated)		10		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, 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 CATHERINE BUCK	BCIN 46674
Signature 	