

Energy Efficiency Design Summary

(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

For use by Principal Authority

Application No:	Model/Certification Number
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A. Project Information

Building number, street name	Unit number	Lot/Con
Municipality	Postal code	Reg. Plan number / other description

B. Compliance Option [indicate the building code compliance option being employed in this house design]

<input type="checkbox"/> SB-12 Prescriptive (circle one): A B C D E F G H I J K L M or <input type="checkbox"/> Table 2.1.1.10. (Additions)	
<input type="checkbox"/> prescriptive trade-offs used (Specify 2.1.1.2. or 2.1.1.3. sentences being employed)	
<input type="checkbox"/> SB-12 Performance* [SB-12 - 2.1.2.]	* Attach energy performance calculations using an approved software
<input type="checkbox"/> Energy Star®* [SB-12 - 2.1.3.]	* Attach Builder Option Package (BOP) form
<input type="checkbox"/> EnerGuide 80®*	* House must be evaluated by NRCan advisor and meet a rating of 80

C. Project Design Conditions

Climatic Zone (SB-1):	Heating Equipment Efficiency	Space Heating Fuel Source
<input type="checkbox"/> Zone 1 (< 5000 degree days)	<input type="checkbox"/> ≥ 90% AFUE	<input type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel
<input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input type="checkbox"/> ≥ 78% < 90% 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 Condition
Area of walls = _____ m ²	W, S & G % = _____	<input type="checkbox"/> ICF Basement <input type="checkbox"/> Walk-out Basement <input type="checkbox"/> Log/Post&Beam
Area of W, S & G = _____ m ²		<input type="checkbox"/> ICF Above Grade <input type="checkbox"/> Slip-on-ground

D. Building Specifications [provide values and ratings of the energy efficiency components proposed, or attach Energy Star BOP form]

Building Component	RSPR values	Building Component	Efficiency Ratings
Thermal Insulation		Windows & Doors Provide U-Value in W/m ² .K, or ER rating	
Ceiling with Attic Space		Windows/Sliding Glass Doors	
Ceiling without Attic Space		Skylight/Glazed Roofs	
Exposed Floor		Mechanicals	
Walls Above Grade		Heating Equip.(AFUE or condensing type)	
Basement Walls		H/V Efficiency (SRE% at 0° C)	
Slab (all >600mm below grade)		DHW Heater (EF)	
Slab (edge only ≤600mm below grade)		DWHR (CSA B55.1 Efficiency)	
Slab (all ≤600mm below grade, or heated)			

E. Performance Design Verification [complete applicable sections if SB-12 Performance, Energy Star or EnerGuide80 options used]

SB-12 Performance:
 The annual energy consumption using subsection 2.1.1. SB-12 Package _____ is _____ GJ (1 GJ = 1000MJ)
 The annual energy consumption of this house as designed is _____ GJ
 The software used to simulate the annual energy use of the building is: _____
 The building is being designed with an air leakage of _____ air changes per hour @50Pa.

Energy Star: Submit the BOP form with Energy Advisor's certification on completion.

Energy Star and EnerGuide80:
 Evaluator/Advisor/Rater Name: _____ Evaluator/Advisor/Rater Licence #: _____

F. House Designer [name & BCIN, if applicable, of person providing information herein to substantiate that design meets the building code]

Name	BCIN	Signature
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