Energy Efficiency Design Summary
(Part 9 Residential)
Supplementary Standard SB-12

This form is to be completed and signed by the person who reviews and takes responsibility for the energy efficiency design of the project. Information on completing this form is contained on the reverse.

For use by Principal Authority

Application No.	Model/Certification Number:

A. Project Information

Phoenix Homes Model S1 2007 A (06087)

Building Number, Street Name	Unit Number	Lot / Con
6531 Waterdown St.		62

Municipality	Postal Code	Reg. Plan Number / Other Description
Ottawa		

B. Compliance Option

■	SB-12 Prescriptive [SB-12 - 2.1.1.]	Table: 2.1.1.2A Package: I
☐	SB-12 Performance* [SB-12 - 2.1.2.]	* Attach energy performance calculations using an approved software
☐	Energy Star®* [SB-12 - 2.1.3.]	* Attach BOP form. House must be labeled on completion by Energy Star
☐	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
■ Zone 1 (< 5000 degree days)	■ ≥ 90% AFUE	■ Gas ☐ Propane ☐ Solid Fuel
☐ Zone 2 (≥ 5000 degree days)	☐ ≥ 78% < 90% AFUE	☐ Oil ☐ Electric ☐ Earth Energy

Windows + Skylights + Glass Doors		Other Building Conditions
Gross Wall Area = 237.10 m²	% Windows+ 13.02 %	☐ ICF Basement ☐ Walkout Basement ☐ Log / Post and Beam
Gross Window+ Area = 30.88 m²		☐ ICF Above Grade ☐ Slab on Grade

D. Building Specifications

Building Component	RSI / R values	Building Component	Efficiency Ratings
Thermal Insulation		**Windows & Doors**[1]	
Ceiling with Attic Space	8.81	Windows/Sliding Glass Doors	1.8
Ceiling without Attic Space	5.46	Skylights	
Exposed Floor	5.46	**Mechanicals**	
Walls Above Grade	3.87	Space Heating Equip.[2]	92%
Basement Walls	3.52	HRV Efficiency (%)	60%
Slab (all >600mm below grade)	—	DHW Heater (EF)	0.62
Slab (edge only ≤600mm below grade)	1.76	NOTES 1. Provide U-Value in W/m2.K, or ER rating	
Slab (all ≤600mm below grade, or heated)	1.76	2. Provide AFUE or indicate if condensing type combined system used	

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 using an air leakage of _____ air changes per hour @50Pa.

Energy Star: BOP form attached. The house will be labeled on completion by:

Energy Star and *EnerGuide80:*

Evaluator / Advisor /Rater Name: _____ Evaluator / Advisor / Rater License #: _____

F. Declaration [by the person who reviews and takes responsibility for the energy efficiency design]

I certify that I have reviewed the design documents submitted with the permit application, that the information contained on this form is consistent with the design documents, and that information used in any annual energy use calculations, if applicable, is a true representation of the design documents.

Name:	Signature:	Date:
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