



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.

Application No.	Model/Certification Number:
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A. Project Information Phoenix Homes: 35-1 2009 B w/ Loft (07032)	
Building Number, Street Name #239 HUNTSVILLE DR	Unit Number
Municipality Ottawa	Reg. Plan Number / Other Description

B. Compliance Option	
☒ SB-12 Prescriptive [SB-12 - 2.1.1.]	Table: 2.1.1.2A Package: 1
☐ 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-4)	Heating Equipment Efficiency
☒ Zone 1 (< 5000 degree days)	☒ ≥ 90% AFUE
☐ Zone 2 (≥ 5000 degree days)	☐ ≥ 78% < 90% AFUE
Space Heating Fuel Source	
☒ Gas	☐ Propane
☐ Oil	☐ Electric
☐ Solid Fuel	☐ Earth Energy
Other Building Conditions	
☐ Windows + Skylights + Glass Doors	☐ ICF Basement
Gross Wall Area = 292.04 m ²	☐ Walkout Basement
Gross Window+ Area = 28.37 m ²	☐ ICF Above Grade
% Windows+ 9.71 %	☐ Slab on Grade
Log / Post and Beam	

D. Building Specifications			
Building Component	RSI / R values	Building Component	Efficiency Ratings
Thermal Insulation			
Ceiling with Attic Space	8.81	Windows & Doors ¹	
Ceiling without Attic Space	5.46	Windows/Sliding Glass Doors	1.8
Exposed Floor	5.46	Skylights	
Walls Above Grade	3.87	Mechanicals	
Basement Walls	3.52	Space Heating Equip. ²	92%
Slab (all >600mm below grade)	1.76	HRV Efficiency (%)	60%
Slab (edge only ≤600mm below grade)	1.76	DHW Heater (IEF)	0.62
Slab (all ≤600mm below grade, or heated)		NOTES	
1. Provide U-Value in W/m ² .K, or ER rating			
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: Kan Vijjoen	Signature: K. Vijjoen	Date: APRIL 18-2012
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