



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: 50-1 2009 A (07032)

Building Number, Street Name 257 HUNTSVILLE DR. Unit Number Lot / Con. 21

Municipality Ottawa Postal Code Reg. Plan Number / Other Description

B. Compliance Option

<input checked="" type="checkbox"/>	SB-12 Prescriptive [SB-12 - 2.1.1.]	Table: 2.1.1.2A Package: 1
<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 BOP form. House must be labeled on completion by Energy Star
<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 checked="" type="checkbox"/> Zone 1 (< 5000 degree days)	<input checked="" type="checkbox"/> ≥ 90% 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"/> ≥ 78% < 90% AFUE	<input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
Windows + Skylights + Glass Doors		Other Building Conditions
Gross Wall Area = 246.12 m ²	% Windows+ 13.37 %	<input type="checkbox"/> ICF Basement <input type="checkbox"/> Walkout Basement <input type="checkbox"/> Log / Post and Beam
Gross Window+ Area = 32.91 m ²		<input type="checkbox"/> ICF Above Grade <input type="checkbox"/> Slab on Grade

D. Building Specifications

Building Component	RSI / R values	Building Component	Efficiency Ratings
Thermal Insulation		Windows & Doors¹	
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/m ² .K, or ER rating 2. Provide AFUE or indicate if condensing type combined system used	
Slab (all ≤600mm below grade, or heated)	1.76		

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: Ken Viljoen
Viljoen Architects Inc.
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OAA License 2393 Tel 416-630-2255

Signature:

K. Viljoen

Date:

APRIL 18-2012