



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:	35-3 2009 A	(07032)
Building Number, Street Name	#433 TILSONDALE ST	Unit Number		51
Municipality	Ottawa	Postal Code		Reg. Plan Number / Other Description 444 2013

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

Cinematic 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 = 297.44 m ²	% Windows+ 11.42 %	<input type="checkbox"/> ICF Basement <input type="checkbox"/> Walkout Basement <input type="checkbox"/> Log / Post and Beam
Gross Window+ Area = 33.96 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			
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)	—	HRV Efficiency (%)	60%
Slab (edge only ≤600mm below grade)	1.76	DHW Heater (EF)	0.62
Slab (all ≤600mm below grade, or heated)	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	

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 representative 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: Kent Viljoen
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Signature: K. Viljoen

Date: APRIL 18-2012