

Energy Efficiency Design Summary

(Part 9 Residential)

This form is used to summarize the energy efficiency design of the project. Information on completing this form is on the reverse

For use by Principal Authority	
Application No:	Model/Certification Number

A. Project Information

Building number, street name Cheasapeake 2007 A,B Alt. 4 Bedroom	Unit number	Lot/Con 27
Municipality 311 Waukegan Ct.	Postal code	Reg. Plan number / other description Am 1413

B. Compliance Option

<input checked="" type="checkbox"/> SB-12 Prescriptive [SB-12 - 2.1.1.]	Table: 2.1.1.2A Package: A B C D E F G H I J K L M I
<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
<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 = 340.80 m ²	% Windows+ <u>10.53</u> %	<input type="checkbox"/> ICF Basement <input type="checkbox"/> Walkout Basement <input type="checkbox"/> Log/Post&Beam
Gross Window+ Area = 35.89 m ²		<input type="checkbox"/> ICF Above Grade <input type="checkbox"/> Slab-on-ground

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

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 Licence #:

F. Designers [names of designers who are responsible for the building code design and whose plans accompany the permit application]

Architectural Santos Dolormente, BCIN 21715 Date: March 28, 2012	Mechanical
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