

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

Application No:		For use by Principal Authority		Model/Certification Number	
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A. Project Information

Building number, street name			Unit number	Lot/Con
Cheasapeake 2007 A,B Alt. 4 Bedroom				24
Municipality	Postal code	Reg. Plan number / other description		
#305 WALKER		AM 1A13		

B. Compliance Option

☒ 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
☐ 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
☐ 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	
☐ Zone 2 (≥ 5000 degree days)	☐ ≥ 78% < 90% AFUE	☐ Oil		☐ Electric	
Windows+Skylights+Glass Doors		Other Building Conditions			
Gross Wall Area = 340.80 m ²	% Windows+ 10.53 %	☐ ICF Basement			
Gross Window+ Area = 35.89 m ²		☐ ICF Above Grade			
		☐ Walkout Basement			
		☐ Slab-on-ground			

D. Building Specifications

provide values and ratings of the energy efficiency components proposed, or attach <i>EnerGuide</i> Star BOP form]	
Building Component	RSI / R values
Thermal Insulation	Building Component
Ceiling with Attic Space	8.81
Ceiling without Attic Space	5.46
Exposed Floor	5.46
Walls Above Grade	3.87
Basement Walls	3.52
Slab (all >600mm below grade)	—
Slab (edge only ≤600mm below grade)	1.76
Slab (all ≤600mm below grade, or heated)	1.76
Windows & Doors	
Windows/Sliding Glass Doors	1.8
Skylights	
Mechanicals	
Space Heating Equip. ²	92%
HRV Efficiency (%)	60%
DHW Heater (EF)	0.62
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, *EnerGuide* Star or *EnerGuide*80 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	Mechanical
Santos Dolormente, BCIN 21715 Date: March 28, 2012	