

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			

A. Project Information

Building number, street name		Unit number		Lot/Con
419 Tillsonburg Street				58
Municipality	Postal code	Reg. Plan number / other description		
Ottawa, ON				

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	☐ Solid Fuel
☐ Zone 2 (≥ 5000 degree days)	☐ ≥ 78% < 90% AFUE	☐ Oil		☐ Electric	☐ Earth Energy
Windows+Skylights+Glass Doors		Other Building Conditions			
Gross Wall Area = 241.55 m ²	% Windows+ 7.36 %	☐ ICF Basement ☐ Walkout Basement ☐ Log/Post&Beam			
Gross Window+ Area = 17.78 m ²		☐ ICF Above Grade ☐ 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 & Doors	
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	
Slab (all ≤600mm below grade, or heated)	1.76	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 Licence #: _____

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

Architectural Santos Dolomente, BCIN 21715 Date: April 12, 2012 Mechanical

