

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 244 Huntsville Drive		Unit number 70
Municipality Ottawa, ON	Postal code _____	Reg. Plan number / other description _____

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

Climate 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 = 273.86 m ²	% Windows+ 8.15 %	☐ ICF Basement	☐ Walkout Basement
Gross Window+ Area = 22.32 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
Ceiling with Attic Space	8.81	Windows & Doors	
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	

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 are architectural]

Santos Dolomente, Mechanical

BCIN 21715 Date: April 12, 2012

in accordance with OMB, OSBA, and OSBO, February 6, 2012

City of Ottawa
Building Services Branch

MAY-8-2012

Building Code Reviewed