



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: 50-1 2009 A (07032)

Building Number, Street Name

251 HURTSVILLE DR

Unit Number

Lot / Con. 18-

Municipality

Ottawa

Postal Code

Reg. Plan Number / Other Description

Area 1413

B. Compliance Option

Table: 2.1.1.2A Package: I

☒ SB-12 Prescriptive [SB-12 - 2.1.1.]

☐ 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. House must be labeled on completion by Energy Star

☐ 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 = 246.12 m²

% Windows+ 13.37 %

☐ ICF Basement

☐ Walkout Basement

☐ Log / Post and Beam

Gross Window+ Area = 32.91 m²

☐ ICF Above Grade

☐ Slab on Grade

D. Building Specifications

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

Mechanicals

Exposed Floor

5.46

Space Heating Equip.²

92%

Walls Above Grade

3.87

HRV Efficiency (%)

60%

Basement Walls

3.52

DHW Heater (EF)

0.62

Slab (all >600mm below grade)

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NOTES

Slab (edge only ≤600mm below grade)

1.76

1. Provide U-Value in W/m².K, or ER rating

Slab (all ≤600mm below grade, or heated)

1.76

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 consistent 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: Ken Vrijen
306A Wilson Ave Toronto
OAA License 2393 Tel 416-630-2255

Signature:

K. Vrijen

Date: APRIL 18-2012