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: : 35-1 2009 B w/ Loft (07032)Building Number, Street Name Lot / Con. Unit Number HUNTSVILLE Municipality Ottawa Reg. Plan Number / Other Description **B.** Compliance Option 2.1.1.2A Table: Package: 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 Heating Equipment Efficiency Space Heating Fuel Source Climatic Zone (SB-1) ≥ 90% AFUE Gas Gas Propane Solid Fuel Zone 1 (< 5000 degree days) Zone 2 (≥ 5000 degree days) ≥ 78% < 90% AFUE ☐ Oil Electric Earth Energy Other Building Conditions Windows + Skylights + Glass Doors Log / Post 292.04 m² Gross Wall Area ≔ ICF Basement Walkout Basement and Beam % Windows+ 9.71 % Gross Window+ Area = 28.37 m² ICF Above Grade Slab on Grade D. Building Specifications RSI/R values **Building Component Efficiency Ratings Building Component** Windows & Doors Thermal Insulation 1.8 Ceiling with Attic Space 8.81 Windows/Sliding Glass Doors Skylights Ceiling without Attic Space 5.46 Exposed Floor 5.46 Mechanicals 92% Space Heating Equip.2 Walls Above Grade 3.87 HRV Efficiency (%) 60% **Basement Walls** 3.52 DHW Heater (EF) Slab (all >600mm below grade) 0.62 Slab (edge only ≤600mm below NOTES 1.76 1. Provide U-Value in W/m2.K, or ER rating grade) 2. Provide AFUE or indicate if condensing type combined system used Slab (all ≤600mm below grade, or 1.76 heated) E. Performance Design Verification [complete applicable sections if SB-12 Performance, Energy Star or EnerGuide80 options used] The annual energy consumption using Subsection 2.1.1. SB-12 Package _Gj (1 Gj =1000Mj) The annual energy consumption of this house as designed is.

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 License #: Evaluator / Advisor /Rater Name: 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. Viljoen Architec Inc 300A Wilson Ave Toronto Tel 416-630-2255 Signature: Name: Ken Viljoen K Veljoen APRIL 18-2012