

Energy Efficiency Design Summary

(Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

For use by Principal Authority	
Application No:	Model/Certification Number

A. Project Information

Building number, street name Stonehaven Lot 2		Unit number	Lot/Con
Municipality Burlington Ontario	Postal Code	Reg. Plan number / other description	

B. Prescriptive Compliance [indicate the building code compliance option being employed in this house design]

☒ SB-12 Perspective (input design package): Package: **A1** Table: **3.1.1.2.A(IP)**

C. Project Design Conditions

Climactic Zone (SB-1)	Heating Equipment Efficiency	Space Heating Fuel Source
<input checked="" type="checkbox"/> Zone 1 (< 5000 degree days)	<input checked="" type="checkbox"/> ≥ 92% AFUE	<input type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
<input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input type="checkbox"/> ≥ 84% < 92% AFUE	
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area		Other Building Conditions
Area of walls = 2803.10 Sq. Ft.	W, S & G % = 15.68%	<input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement <input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit <input type="checkbox"/> Air Sourced Heat Pump (ASHP) <input type="checkbox"/> Ground Sourced Heat Pump (GSHP)
Area of W, S & G = 0.00 Sq. Ft.	Utilize window averaging: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

D. Building Specifications [provide values and ratings of the energy efficiency components proposed, or attach Energy Star BOP form]

Energy Efficiency Substitutions				
<input type="checkbox"/> ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6)) <input type="checkbox"/> Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7))				
<input type="checkbox"/> Airtightness substitution(s) Airtightness test required (Refer to Design Guide Attached)	<input type="checkbox"/> Table 3.1.1.4.B Required: _____ Permitted Substitution: _____			
	<input type="checkbox"/> Table 3.1.1.4.C Required: _____ Permitted Substitution: _____			
	Required: _____ Permitted Substitution: _____			
Building Component	Minimum RSI / R values or Maximum U value ⁽¹⁾	Building Component	Efficiency Ratings	
Thermal Insulation	Nominal Effective	Windows & Doors Provide U-Value ⁽¹⁾ in W/m ² .K, or ER rating		
Ceiling with Attic Space	R60	Windows/Sliding Glass Doors		
Ceiling without Attic Space	R31	Skylights/Glazed Roofs	.49	
Exposed Floor	R31	Mechanicals		
Walls Above Grade	R22 + N/A	Heating Equip. (AFUE or condensing type)	96%	
Basement Walls	R20 ci	HRV Efficiency (SRE% at 0°C)	75%	
Slab (all >600mm below grade)	---	DHW Heater (EF)	.8	
Slab (edge only ≤ 600mm below grade)	R10	DWHR (CSA B55.1 (min. 42% efficiency))	42%	#Showers 2
Slab (all ≤ 600mm below grade, or heated)	R10	Combined Heating System		

(1) U value to be provided in either W/(m².K) or Btu/(h.ft².F) but not both.

E. House Designer [name & BCIN, if applicable, of person providing information herein to substantiate that design meets the building code]

Name Eric Canton Virtual Creations Inc	BCIN 28844	Signature
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