

Energy Efficiency Design Summary

(Building Code Compliance - 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	
Reviewed for Ontario Building Code Compliance. Subject to Corrections Noted on Plans and Field Inspections.			
A. Project Information			
Building number, street name 690 Crooks Hollow Road		Unit number	Lot/Con
Municipality Dundas Ontario	Postal Code	Reg. Plan number / other description	
		Permit:	21 104272 000 00 R9
B. Prescriptive Compliance		[Indicate the building code compliance option being employed in this house design] Date: 05/19/21	
<input checked="" type="checkbox"/> SB-12 Perspective (input design package): Package: A1		Table: 3.1.1.2.4(IP) Name: Laurie Smith	
C. Project Design Conditions		Approved by: <i>LSmith</i>	

Climatic Zone (SB-1)	Heating Equipment Efficiency	Space Heating Fuel Source
<input checked="" type="checkbox"/> Zone 1 (< 5000 degree days) <input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input checked="" type="checkbox"/> ≥ 92% AFUE <input type="checkbox"/> ≥ 84% < 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
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area		Other Building Conditions
Area of walls = 899.10 Sq. Ft.	W, S & G % = 17.63%	<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	1.4 W/m²·K OR (0.25 Btu/h·ft²·F) OR 29 ER
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 <i>EC</i>