

B. AIKEN

City of Ottawa  
Building Services Branch

REVIEWED

By aikenre at 11:57 am, Apr 14, 2023

Building Code Reviewed

Signature

**Energy Efficiency Design Summary: Prescriptive Method**  
(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 the 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 114 Chandelle Private		Unit number	Lot/Con 111
Municipality West Carleton	Postal code	Reg. Plan number / other description 4M-1593	

**B. Prescriptive Compliance** [indicate the building code compliance package being employed in this house design]SB-12 Prescriptive (input design package): Package: A1 Table: 3.1.1.2.A(IP)**C. Project Design Conditions**

<b>Climatic Zone (SB-1):</b> <input checked="" type="checkbox"/> Zone 1 (< 5000 degree days) <input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<b>Heating Equipment Efficiency</b> <input checked="" type="checkbox"/> ≥ 92% AFUE <input type="checkbox"/> ≥ 84% < 92% AFUE	<b>Space Heating Fuel Source</b> <input checked="" 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
<b>Ratio of Windows, Skylights &amp; Glass (W, S &amp; G) to Wall Area</b> Area of walls = _____ m <sup>2</sup> or 4139 ft <sup>2</sup> W, S & G % = <u>11.8</u> Area of W, S & G = _____ m <sup>2</sup> or 487.6 ft <sup>2</sup>		<b>Other Building Characteristics</b> <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)
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]

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 <sup>(1)</sup>		Building Component
<b>Thermal Insulation</b>	Nominal	Effective	<b>Efficiency Ratings</b>
Ceiling with Attic Space	R60		<b>Windows &amp; Doors</b> Provide U-Value <sup>(1)</sup> or ER rating
Ceiling without Attic Space	R31		Windows/Sliding Glass Doors
Exposed Floor	R31		Skylights/Glazed Roofs
Walls Above Grade	R22		<b>Mechanicals</b>
Basement Walls		R21.12	Heating Equip.(AFUE)
Slab (all >600mm below grade)	—		HRV Efficiency (SRE% at 0°C)
Slab (edge only ≤600mm below grade)	R10		DHW Heater (EF)
Slab (all ≤600mm below grade, or heated)	R10		DWHR (CSA B55.1 (min. 42% efficiency))
			Combined Heating System
			# Showers
			NO

(1) U value to be provided in either W/(m<sup>2</sup>·K) or Btu/(h·ft<sup>2</sup>·F) but not both.**E. Designer(s)** [name(s) & BCIN(s), if applicable, of person(s) providing information herein to substantiate that design meets the building code]

<b>Qualified Designer</b> Declaration of designer to have reviewed and take responsibility for the design work.		
Name Catherine Buck	BCIN 46674	Signature 