## **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/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

Application No:

For use by Principal Authority

A Dustract C						
A. Project Information  Building number, street name					Unit number	Lot/Con
1959 Cessna Private					Silk Hamber	15
Municipality Postal code			Reg. Plan number 7 other description			
West Carleton			4M -			
B. Prescriptive Complian	ce [indicate the	building code c	ompliance	package being	employed in this house	design]
SB-12 Prescriptive (input design	n package):	Package: A	1		able: 3.1.1.2.A(II	<u>P)</u>
C. Project Design Condition			· let • ; especiation and	In a second reserve	Patrick - Salary J. Consequent stranger control	On administration in the control of
Climatic Zone (SB-1):  Zone 1 (< 5000 degree days)		Heating Equipment Efficier  ■ ≥ 92% AFUE		Space Heati	ng Fuel Source □ Propane	□ Solid Fuel
□ Zone 2 (≥ 5000 degree days)		□ ≥ 84% < 92% AFUE		□ Oil	□ Flectric	□ Earth Energy
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area				Other Buildi	ng Characteristics	0,1
Area of walls =m² or 3917 _ f	Utilize window averaging: ☐			□ Log/Post&Beam □ ICF Above Grade □ ICF Baseme □ Slab-on-ground □ Walkout Basement □ Air Conditioning □ Combo Unit □ Air Sourced Heat Pump (ASHP) □ Ground Sourced Heat Pump (GSHP)		
D. Building Specifications [	nrovide values a	nd ratings of the	eneray of			,
Energy Efficiency Substitutions		na ratings of the	chergy en	liciency compone	ents proposed]	
□ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) &						City of Ottawa
□ Combined space heating and dom		ating systems	(3.1.1.2.(	7) / 3.1.1.3.(7)	))	Building Services Branch
□ Airtightness substitution(s)			,	,	,	REVIEWED  By Nicholas Winn at 10:12 am, Sep 01, 2021
	3.1.1.4.B Re	.1.1.4.B Required:			ermitted Substitution:	Building Code Reviewed
Airtightness test required Refer to Design Guide Attached) □ Table		114C Required:		Permitted Substitution:		nm
(Neich to Besign Guide Attached) 2 Table		Required:		Permitted Substitution:		Signature
Building Component	Minimum F	RSI / R values		Building Co		Efficiency Ratings
Thermal Insulation	or Maximu Nominal	or Maximum U-Value <sup>(1)</sup> Nominal Effective Windows &		we & Doore	Dravida III Valua(1) as ED	
Ceiling with Attic Space		Lilective	Windows & Doors Provide U-Value <sup>(1)</sup> or ER Windows/Sliding Glass Doors			T
Ceiling without Attic Space						25
Exposed Floor	R31		Skylights/Glazed Roofs  Mechanicals		0.49	
Walls Above Grade	R31					Tage!
	R22	D04.40	Heating Equip.(AFUE)		96%	
Basement Walls		R21.12	HRV Efficiency (SRE% at 0		% at 0°C)	75%
Slab (all >600mm below grade)			DHW Heater (EF)			0.8
Slab (edge only ≤600mm below grade)	R10		DWHR (CSA B55.1 (min. 42% efficiency))		# Showers	
Slab (all ≤600mm below grade, or heated) R10		Combined Heating System		NO		
(1) U value to be provided in either W/(m <sup>2</sup> . <b>E. Designer(s)</b> [name(s) & BCIN(s)		-	viding infor	mation herein to	substantiate that design	n meets the building codel
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Qualified Designer Declaration of des Name	igner to have rev	ieweu anu take	BCIN	ity for the deelg		
Qualified Designer Declaration of des	igner to have rev	ieweu anu take			Signature	411