

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%.

For use by Principal Authority										
Application No:					Model/Certification Number					
A. Project Informatio	n Rav	view W	ellinaton	45-40	Elevation	Δ				
Building number, street name	п Бау	VICVV VV	Cilligion	70-70	Licvation	Unit number	10	t/Con		
building number, street name						One number		u com		
Municipality		Postal code		Reg. Plan number / other description						
Innisfil										
B. Prescriptive Co	mpliance	e [indicate the	building code co	ompliance	package being emplo	yed in this house	design]			
SB-12 Prescriptive (inp	ut design p	oackage): l	Package:	_A1_	<u>-</u>	Table:				
C. Project Design Co	nditions									
Climatic Zone (SB-1):	- \	Heating Equipment Effici		ciency	Space Heating Fuel Source ■ Gas □ Propane □ Solid Fuel			0.151.5		
☐ Zone 1 (< 5000 degree da	Zone 1 (< 5000 degree days)		■ ≥ 92% AFUE □ ≥ 84% < 92% AFUE				☐ Solid Fuel☐ Earth Energy			
Ratio of Windows, Skylights					☐ Oil ☐ Electric ☐ Earth Energy Other Building Characteristics					
Area of walls = <u>343.09</u> m ² or <u>3</u>	W, S & G % = 16.81		Yes ■ No	□ Log/Post&Beam □ ICF Above Grade □ ICF Baseme □ Slab-on-ground □ Walkout Basement □ Air Conditioning □ Combo Unit □ Air Sourced Heat Pump (ASHP)						
Area of W, S & G = $57.68 \text{ m}^2 \text{ or } 620.89 \text{ ft}^2$					☐Ground Sourced Heat Pump (GSHP)					
D. Building Specifica		ovide values a	nd ratings of the	energy eff	iciency components p	proposed]				
Energy Efficiency Subs	titutions									
\square ICF (3.1.1.2.(5) & (6) / 3.1 \square Combined space heating a			ating avotoms	(2 1 1 2 /	7\ / 2 1 1 2 /7\\					
Combined space neating a		tic water ne	alling systems	(3.1.1.2.(7)73.1.1.3.(7))					
☐ Airtightness substitution(s)	☐ Table :	3.1.1.4.B Required:			Permitted Substitution:					
Airtightness test required (Refer to Design Guide Attached)			•	Permitted Substitution:						
			quired:	Permitted Substitution:						
Building Compone	nt	Minimum RSI / R values or Maximum U-Value ⁽¹⁾			Building Component		Efficiency Ratings			
Thermal Insulation		Nominal	Effective	Windows & Doors Provide U-Value ⁽¹⁾ or E			ER rating			
Ceiling with Attic Space		60		Windows/Sliding Glass Doors		1.6				
Ceiling without Attic Space		31		Skylights/Glazed Roofs			0.49			
Exposed Floor		31		Mechanicals						
Walls Above Grade		22		Heating Equip.(AFUE)			96%			
Basement Walls		20 ci		HRV Efficiency (SRE% at 0°C)		75%				
Slab (all >600mm below grade)		N/A		DHW Heater (EF)		0.80				
Slab (edge only ≤600mm below grade)		10		DWHR (CSA B55.1 (min. 42% efficiency))		2	# Showers 3			
Slab (all ≤600mm below grade, or heated)		10		Combined Heating System						
(1) U value to be provided in eith		L	E) but not both	1	<u> </u>					
E. Designer(s) [name(s)		•	,	/iding infor	mation herein to subs	stantiate that design	gn meets th	ne building code]		
Qualified Designer Declarati								<u>.</u>		
Name				BCIN		Cianatura	1-			
VA3 DESIGN INC				255		4	Bostes	10.		



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C. Project Design Co	nditions	3							
Climatic Zone (SB-1):		Heating E	quipment Effi	ciency	Space Heating Fuel Source				
	Zone 1 (< 5000 degree days)		■ ≥ 92% AFUE □ ≥ 84% < 92% AFUE			☐ Propane	☐ Solid Fuel		
	☐ Zone 2 (≥ 5000 degree days)				☐ Oil ☐ Electric ☐ Earth Energy				
Ratio of Windows, Skylights	s & Glass	(W, S & G)	to Wall Area		Other Building C			□ ICE Pasamoi	
Area of walls = 357.12 m ² or 3844.00 ft ²		40.00			☐ Log/Post&Beam ☐ ICF Above Grade ☐ ICF Basemen ☐ Slab-on-ground ☐ Walkout Basement				
		W, S & G % = 16.80			☐ Air Conditioning ☐ Combo Unit				
		Utilize window averaging: ☐Yes ■No			☐ Air Sourced Heat Pump (ASHP)				
Area of W, S & G = $59.99 \text{ m}^2 \text{ or } 645.77 \text{ ft}^2$					☐Ground Sourced Heat Pump (GSHP)				
D. Building Specifica	tions [pro	ovide values a	and ratings of the	energy eff	iciency components p	proposed]			
Energy Efficiency Subs	titutions								
☐ ICF (3.1.1.2.(5) & (6) / 3.1	.1.3.(5) &	(6))							
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VA3 DESIGN IN	L			255	9 I	, 07			