

### TIERED PRESCRIPTIVE COMPLIANCE

Section 9.36 of the National Building Code of Canada

#### This form is intended to clarify the compliance with Section 9.36, prescriptive path.

Must be completed by a competent person who is knowledgeable, experienced and trained in building design under Section 9.36 of the NBC and acceptable to the Authority Having Jurisdiction.

Address:							
Occupancy Class:	Conditioned S	pace Volume (m³)	):				
Select Performance Tier:  Tier 1 Tier 2 Tier 3 Tier 4 Tier 5							
Prescriptive Compliance Pa All calculations and specifica			form	Conversions:			
o be considered complete an							
•	<u> </u>		R = 5.678				
HRV / ERV: Yes No F280 Heat Gain/Loss Report must be Attached							
Effective Thermal	Resistance of A	bove Ground C	paque Building A	ssemblies (RSI)			
Assembly	W	/ HRV	w/o HRV	Proposed			
Ceilings below attics		8.67	10.43				
Cathedral / Flat roofs		5.02	5.02				
Walls & Rim joists		2.97 3.08					
Floors over unheated space	es	5.0					
Floors within garage		4.8	36				
Thermal (	Characteristics	of Fenestration	, Doors and Skyliເ	ghts (U)			
Assembly Efficiency				Proposed			
Windows & Doors  Maximum U-Value 1.61 or							
		Minimum Energy Rating ≥ 25					
One door exception		Maximum U-Value 2.60					
Attic hatch		Minimum F					
Skylights Maximum U-Value 2.75							
Effective Thermal Resistance of Below-Grade or In-Contact-With-Ground Opaque Buildings Assemblies (RSI)							
Assembly		/ HRV	w/o HRV	Proposed			
Foundation Walls		2.98	3.46				
Slab On Grade With Integra Footing	al	2.84	3.72				
Unheated Floor Below Frost L	_ine uni	nsulated	uninsulated	k			
	ine	1.96	1.96				
Unheated Floor Above Frost L		2.84					

be accepted for review. The location and extent of assemblies used in the calculations shall be clearly identified on the drawings by hatch or note.

Should trade off be proposed, all calculations must be attached to this form to be considered complete and

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HVAC Equipment Performance Requirements						
Equipment	Capacity KW	Standard	Min. Efficiency	Proposed		
Electric Heat Pump (split & single package)	≥ 19	See Tables 5.2.12.				
Gas Fired Furnace	≤ 66 using single-phase electric current	CAN/CSA-P.2	AFUE ≥ 95% and must be equipped with a high- efficiency constant torque or constant airflow fan motor			
w or w/o A/C	≤ 66, through the wall furnace		E <sub>t</sub> ≥ 78.5% AFUE ≥ 90%			
	≤ 66 using three-phase electric current	ANSI Z21.47/CSA 2.3	AFUE ≥ 78% or E <sub>t</sub> ≥ 80%			
	> 66 and <u>&lt;</u> 117.23	2.3	E <sub>t</sub> ≥ 80%			
Electric Boiler	< 88		(1)			
	< 88	CAN/SCA-P.2	AFUE ≥ 90%			
Gas Fired Boiler	≥ 88 & < 733	ANSI/AHRI 1500 or DOE 10 CFR, Part 431, Subpart E, Appendix A	E₁≥ 83%			
Other						
Heat Loss/Heat Gain Calculation	Calculations we	BTU				
Nomenclature	AFUE= annual fuel utilization efficiency, E₁= thermal efficiency					
	Water Heate	rs Performance Ro	equirements			
Equipment	Capacity KW	Standard	Min. Efficiency	Proposed		
	≤ 12 kW (>50 L to		SL ≤ 35 + 0.20V (top inlet)			
	≤ 270 L capacity)	CAN/CSA-C191	SL ≤ 40 + 0.20V (bottom inlet)			
Tank Storage	≤ 12 kW		$SL \le (0.472V) - 38.5 \text{ (top inlet)}$			
Electric	(>270 L to ≤ 454 L capacity)		SL ≤ (0.472V) - 33.5 (bottom inlet)			
	>12 kW	ANSI Z21.10.3/CSA 4.3 or DOE 10 CFR, Part 431, Subpart G App B	SL <u>&lt;</u> 0.30 + (102.2 V <sub>s</sub> )			
	≤ 22 kW and first-hour rating < 68 L		UEF ≥ 0.3456 – (0.00053 V <sub>s</sub> )			
Tank Storage	≤ 22 kW and first-hour rating ≥ 68 L but < 193 L		UEF ≥ 0.5982 – (0.00050 V <sub>s</sub> )			
	≤ 22 kW and first-hour rating ≥ 193 L but < 284 L	CAN/CSA-P.3	UEF ≥ 0.6483 – (0.00045 V <sub>s</sub> )			
	≤ 22 kW and first-hour rating ≥ 284 L		UEF ≥ 0.6920 - (0.00034 V <sub>s</sub> )			
	> 22 kW but <u>&lt;</u> 30.5kW and V <sub>r</sub> <u>&lt;</u> 454 L		UEF ≥ 0.8107 – (0.00021 V <sub>s</sub> )			
	> 22 kW	DOE 10 CFR, Part 431, Subpart G, Appendix A	$E_t \ge 90\%$ and $SL \le 0.84$ [(1.25 Q) + (16.57 $\sqrt{V_r}$ )]			

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Tankless Gas Fired	< 58.56 kW, V <sub>r</sub> < 7.6 L and max. flow rate < 6.4 L/min	CAN/CSA-P.3	UEF ≥ 0.86	
	$< 58.56$ kW, $V_r \le 7.6$ L and max. flow rate $\ge 6.4$ L/min	CAN/CSA-P.3	UEF ≥ 0.87	
	$\geq$ 58.56 kW, V <sub>r</sub> $\leq$ 37.85 L and input rate to V <sub>r</sub> ratio $\geq$ 309 W/L	DOE 10 CFR, Part 431, Subpart G, Appendix C	E₁ ≥ 94%	
Tankless, Electric	No standard addresses the p	performance efficiency;	however, their efficiency typical	ly approaches 100%
Other				
Nomenclature	<ul> <li>EF = energy factor</li> <li>Q = nameplate input rate, in k</li> <li>V<sub>r</sub> = rated nominal storage vol</li> </ul>	W SL = standb	I efficiency with a 38.9°C (70°F) w by loss, in W red storage volume, in L	ater temp difference

<sup>(1)</sup> Must be equipped with automatic water temperature control. No standard addresses the performance efficiency; however their efficiency typically approaches 100%

Proposed House - Building Assembly Details:								
		Frami	ng		Insulation	Furnace Size:		
Ceiling:	"	O.C.		R	-	Furnace Rating:		
Exterior Wall:	2" x	@	" O.C.	R	-	Water Heater:		
Tall Wall:	2" x	@	" O.C.	R	-	HRV:	☐ Yes	□ No
Foundation Wall:	2" x	@	" O.C.	R	-	Air Conditioner:		
Floor Headers:				R	-	Air Barrier (NBC):		
Cantilever/Bonus Rm:	2" x	@	" O.C.	R	-	Attic Hatch:		
Slab:	☐ None	lnt 🗆	☐ Ext / (1.2m)		thick -	Doors (U-Values):		
Cladding Type:						Windows:		
Comments:						(List all U-Values)		

## **Compliance via Tiered Prescriptive Results (9.36.8.)**

This option applies only to buildings of residential occupancy to which Part 9 applies.

Energy Performance Measures	Minimum Energy Conservation Points (Zone 7a)
Above-Ground Walls	
Fenestration and Doors	
Below-Grade or In Contact with Ground	
Airtightness	
Ventilation Systems	
Service Water Heating Equipment	
Building Volume	
Total Energy Conservation Points Achieved:	

Where points are achieved through Table 9.36.8.8., an airtightness test is required to be conducted. Provide the Airtightness Certificate to office@pro-inspections.ca once complete but required prior to Occupancy inspection.

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