

## Prescriptive Summary for Part 9 Buildings: New Construction in Zone 7A

- 1) Check applicable for proposed construction. Minimum prescriptive Effective Thermal Resistance (ETR) for roofs/walls/floors.

Is a *HRV Proposed?	Yes Complete this Column			No Complete this Column		
Above-Ground Assemblies	Minimum ETR RSI	N/A	Equal or better	Minimum 'ETR' RSI	N/A	Equal or better
Ceiling below attic	8.67	<input type="checkbox"/>	<input type="checkbox"/>	10.43	<input type="checkbox"/>	<input type="checkbox"/>
Cathedral ceiling OR flat roof	5.02	<input type="checkbox"/>	<input type="checkbox"/>	5.02	<input type="checkbox"/>	<input type="checkbox"/>
Wall c/w exposed foundation wall > 600mm	2.97	<input type="checkbox"/>	<input type="checkbox"/>	3.08	<input type="checkbox"/>	<input type="checkbox"/>
Floor over unheated space	5.02	<input type="checkbox"/>	<input type="checkbox"/>	5.02	<input type="checkbox"/>	<input type="checkbox"/>
Tall Wall	2.97	<input type="checkbox"/>	<input type="checkbox"/>	3.46	<input type="checkbox"/>	<input type="checkbox"/>
Below-Ground or Ground Contact Assemblies						
Wall c/w exposed foundation wall < 600mm	2.98	<input type="checkbox"/>	<input type="checkbox"/>	3.46	<input type="checkbox"/>	<input type="checkbox"/>
Unheated floor – below frost line	N/A	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>
Unheated floor – above frost line	1.96	<input type="checkbox"/>	<input type="checkbox"/>	1.96	<input type="checkbox"/>	<input type="checkbox"/>
Heated floor	2.84	<input type="checkbox"/>	<input type="checkbox"/>	2.84	<input type="checkbox"/>	<input type="checkbox"/>
Slab-on-grade with integral footing	2.84	<input type="checkbox"/>	<input type="checkbox"/>	3.72	<input type="checkbox"/>	<input type="checkbox"/>
HRV conforms to CAN/CSA-C439, "Rating the Performance of Heat/Energy-Recovery Ventilators" sensible HR efficiency ≥ 60%@0°C & ≥55%@-25°C <b>Yes</b> <input type="checkbox"/>						

- 2) Check applicable proposed construction. Maximum prescriptive overall thermal characteristics for windows and doors.

Fenestration & Door Components	Maximum U Value	N/A	Equal or less			
Windows	1.60	<input type="checkbox"/>	<input type="checkbox"/>	Min. ER 25	<input type="checkbox"/>	<input type="checkbox"/>
Exterior doors	1.60	<input type="checkbox"/>	<input type="checkbox"/>	Min. ER 25	<input type="checkbox"/>	<input type="checkbox"/>
Single exterior door exception	2.60	<input type="checkbox"/>	<input type="checkbox"/>	9.36.2.7.(5), indicate on plans		
Glass block; max area: 1.85m <sup>2</sup>	2.90	<input type="checkbox"/>	<input type="checkbox"/>	9.36.2.7.(4), indicate on plans		
Skylights	2.70	<input type="checkbox"/>	<input type="checkbox"/>	9.36.2.7.(4), indicate on plans		
Attic/access hatches	min RSI=2.6	Yes <input type="checkbox"/>	<input type="checkbox"/>	9.36.2.4.(8), indicate on plans		
Garage overhead doors	min RSI=1.1	Yes <input type="checkbox"/>	<input type="checkbox"/>	9.36.2.7.(7), indicate on plans		

- 3) Select HVAC components/capacity/standard/ minimum performance; check if applicable.

Equipment	Heating/Cooling Capacity	Standard	Minimum Performance	
Gas-fired forced air furnace	<65.9kW [222,000 Btu/h]	CAN/CSA-P.2	≥ AFUE 92%	Yes <input type="checkbox"/>
Gas-fired boiler	≤ 88kW [3000k Btu/h]	CAN/CSA-P.2	≥ AFUE 90%	Yes <input type="checkbox"/>
Gas-fired tankless combo space/water heating	≤ 73.2kW if SWH-based ≤ 87.9kW if boiler-based	CAN/CSA-P.9	TPF = 0.65	Yes <input type="checkbox"/>

4) Select **Service Water Heating** components/input/standard/performance; check if applicable.

Component	Input	Standard	Performance Requirement	
Gas-fired hot water tank	< 22kW [75,000 Btu/h]	CAN/CSA-P.3	EF ≥ 0.67 – 0.0005V	Yes <input type="checkbox"/>
Gas-fired tankless	>73.2kW [250,000 Btu/h]	CSA 4.3 etc	E <sub>t</sub> ≥ 80%	Yes <input type="checkbox"/>
	≤ 73.2kW [250,000 Btu/h]	CAN/CSA-P.7	EF ≥ 0.08	Yes <input type="checkbox"/>
Electric tank	≤50-270L [13-71 usg]	CAN/CSA-C191	SL ≤ 35 + 0.20V (top)	Yes <input type="checkbox"/>
			SL ≤ 40 + 0.20V (bottom)	Yes <input type="checkbox"/>
Electric tankless	-----	----	Approaching 100%	Yes <input type="checkbox"/>

The symbols and abbreviations that appear in this summary have the following meanings:

AFUE = Annual Fuel Utilization Efficiency  
 ETR = Effective Thermal Resistance  
 U Value = w/m<sup>2</sup> K  
 RSI Value = m<sup>2</sup>k/w  
 TPF = Thermal Performance Factor  
 E<sub>t</sub> = Thermal Efficiency