

NBC(AE) 2023 9.36 Energy Efficiency Prescriptive Path Summary and Checklist



Project Address: _____

Prescriptive Path
Complete 1A or 1B
and 2 to 5 below

Prescriptive Path with Trade Off Options
Complete 1A or 1B and 2 to 5 below
Attach trade off calculations

For **Performance Path**, use Performance Path Summary Sheet at edmonton.ca/energycode

1A

Effective thermal resistance of assemblies in buildings **without heat recovery ventilator (HRV)**
9.36.2.6.A & 9.36.2.8.A

Assembly Location	Minimum ETR (m2K/W) (RSI)				Proposed Assembly including insulation type/R-value
Roof					
Cathedral ceiling and flat roofs	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Ceilings under attic, including over attached garages	10.43	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Above ground walls					
Exterior wall	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Tall walls	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
House to attached garage walls	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Other: kitchen cabinet walls	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Other:	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Rim Joists					
Parallel to joists or pony wall	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Perpendicular to joists	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Above ground floor					
Exterior cantilever	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Over attached garage	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Below grade walls					
Frost walls, above ground wall portions where average exposure < 0.6m	3.46	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	

Foundation level above ground wall portions where average exposure $\geq 0.6\text{m}$	3.46	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Unheated floor: above frost line	1.96	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Any heated floor: in ground contact	2.84	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Slab on grade: with integral footing	3.72	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	

1B

Effective thermal resistance of assemblies in buildings **with heat recovery ventilator (HRV)**

9.36.2.6.B & 9.36.2.8.B

Assembly Location	Minimum ETR (m ² K/W) (RSI)				Proposed Assembly including insulation type/R-value
Roof					
Cathedral ceiling and flat roofs	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Ceilings under attic, including over attached garages	8.67	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Above ground walls					
Exterior wall	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Tall walls	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
House to attached garage walls	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Other: kitchen cabinet walls	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Other:	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Rim Joists					
Parallel to joists or pony wall	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Perpendicular to joists	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Above ground floor					
Exterior cantilever	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Over attached garage	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Below grade walls					
Frost walls, above ground wall portions where average exposure $< 0.6\text{m}$	2.98	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	

Foundation level above ground wall portions where average exposure $\geq 0.6\text{m}$	2.98	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Unheated floor: above frost line	1.96	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Any heated floor: in ground contact	2.84	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Slab on grade: with integral footing	2.84	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	

2

Maximum **thermal transmittance (U values)** of windows, doors, etc.

Fenestration & Door components	Maximum U value (W/m ² K)			
Windows (max USI)	1.61	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing
Exterior Doors (max USI)	1.61	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing
Single exterior door exception (max USI)	2.6	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing
Glass block (max area: 1.85m ²) (max USI)	2.9	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing
Skylights (max USI)	2.75	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing

Minimum **thermal resistance (ETR)** of attic hatches and garage overhead doors

Component	Minimum ETR value (m ² K/W)			
Attic/access hatches	2.6	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing
Garage overhead doors	1.1	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing

3

Check **HVAC** components/capacity/standard/minimum performance, or write 9.36.3.10 selections in the space below

Component / Equipment	Heating/Cooling Capacity	Standard	Min Performance	
Gas fired forced air furnace	< 65.9kW [222,000 btu/h]	CAN/CSA-P.2	AFUE $\geq 95\%$	<input type="checkbox"/> Yes
Gas fired boiler	$\leq 88\text{kW}$ [300 kbtu/h]	CAN/CSA-P.2	AFUE $\geq 90\%$	<input type="checkbox"/> Yes

Gas fired tankless combo space/water heating	<= 73.2kW if SWH-based <=87.9Kw if boiler-based	CAN/CSA-P.9	TPF = 0.80	<input type="checkbox"/> Yes
Other:				<input type="checkbox"/> Yes
Other:				<input type="checkbox"/> Yes

4

Check **Service Water Heating** components/capacity/standard/minimum performance, or write 9.36.4.2 selections in the space below

Component/Equipment	Input	Standard	Min Performance	
Gas fired hot water tank	<=22 kW and FHR < 68L <=22 kW, 68L <= FHR < 193L	CAN/CSA-P.3	UEF >= 0.3456 - 0.00053V UEF >= 0.5982 - 0.0005V	<input type="checkbox"/> Yes
Other gas fired hot water tank:				<input type="checkbox"/> Yes
Gas fired tankless	< 58 kW, V <= 7.6L, flow < 6.4 L/min	CAN/CSA-P.2	UEF >= 0.86	<input type="checkbox"/> Yes
Electric tank	<= 12 kW & 50L < V <= 270L	CAN/CSA-C191	SL <= 35 + 0.2V (top) & SL <= 40 + 0.2V (bottom)	<input type="checkbox"/> Yes
Electric tankless	-	-	approaching 100%	<input type="checkbox"/> Yes
Heat pump water heater	<24A and <=250V	CAN/CSA-C745	EF >= 2.1	<input type="checkbox"/> Yes
Other:				<input type="checkbox"/> Yes

*FHR = first hour rating

5

Indicate the following, as applicable:

HRV conforms to CAN/CSA-C439 "Rating the Performance of Heat/Energy Recovery Ventilators" sensible HR effectiveness >=60% @ 0C and >=55% @ -25C	<input type="checkbox"/> Yes
A blower door test will be submitted after construction and prior to occupancy inspection for energy code compliance?	<input type="checkbox"/> Yes