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	☐ N/A	☐ equal or better	☐ less	
Ceilings under attic, including over attached garages	10.43	☐ N/A	☐ equal or better	☐ less	
Above ground walls					
Exterior wall	3.08	☐ N/A	☐ equal or better	☐ less	
Tall walls	3.08	☐ N/A	☐ equal or better	☐ less	
House to attached garage walls	2.92	☐ N/A	☐ equal or better	☐ less	
Other: kitchen cabinet walls	3.08	☐ N/A	☐ equal or better	☐ less	
Other:	3.08	☐ N/A	☐ equal or better	☐ less	
Rim Joists					
Parallel to joists or pony wall	3.08	☐ N/A	☐ equal or better	☐ less	
Perpendicular to joists	3.08	☐ N/A	☐ equal or better	☐ less	
Above ground floor					
Exterior cantilever	5.02	☐ N/A	☐ equal or better	☐ less	
Over attached garage	4.86	☐ N/A	☐ equal or better	☐ less	
Below grade walls					
Frost walls, above ground wall portions where average exposure < 0.6m	3.46	☐ N/A	☐ equal or better	☐ less	

Foundation level above ground wall portions where average exposure >= 0.6m	3.46	☐ N/A	☐ equal or better	☐ less	
Unheated floor: above frost line	1.96	☐ N/A	☐ equal or better	☐ less	
Any heated floor: in ground contact	2.84	☐ N/A	☐ equal or better	☐ less	
Slab on grade: with integral footing	3.72	☐ N/A	☐ equal or better	☐ less	

1B

Effective thermal resistance of assemblies in buildings **<u>with</u> heat recovery ventilator** (HRV)
9.36.2.6.B & 9.36.2.8.B

Assembly Location	**Minimum ETR (m2K/W) (RSI)**				**Proposed Assembly** including insulation type/R-value
Roof					
Cathedral ceiling and flat roofs	5.02	☐ N/A	☐ equal or better	☐ less	
Ceilings under attic, including over attached garages	8.67	☐ N/A	☐ equal or better	☐ less	
Above ground walls					
Exterior wall	2.97	☐ N/A	☐ equal or better	☐ less	
Tall walls	2.97	☐ N/A	☐ equal or better	☐ less	
House to attached garage walls	2.81	☐ N/A	☐ equal or better	☐ less	
Other: kitchen cabinet walls	2.97	☐ N/A	☐ equal or better	☐ less	
Other:	2.97	☐ N/A	☐ equal or better	☐ less	
Rim Joists					
Parallel to joists or pony wall	2.97	☐ N/A	☐ equal or better	☐ less	
Perpendicular to joists	2.97	☐ N/A	☐ equal or better	☐ less	
Above ground floor					
Exterior cantilever	5.02	☐ N/A	☐ equal or better	☐ less	
Over attached garage	4.86	☐ N/A	☐ equal or better	☐ less	
Below grade walls					
Frost walls, above ground wall portions where average exposure < 0.6m	2.98	☐ N/A	☐ equal or better	☐ less	

Foundation level above ground wall portions where average exposure >= 0.6m	2.98	☐ N/A	☐ equal or better	☐ less	
Unheated floor: above frost line	1.96	☐ N/A	☐ equal or better	☐ less	
Any heated floor: in ground contact	2.84	☐ N/A	☐ equal or better	☐ less	
Slab on grade: with integral footing	2.84	☐ N/A	☐ equal or better	☐ less	

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

Fenestration & Door components	**Maximum U value (W/m2K)**			
Windows (max USI)	1.61	☐ N/A	☐ equal or higher performing	☐ lower performing
Exterior Doors (max USI)	1.61	☐ N/A	☐ equal or higher performing	☐ lower performing
Single exterior door exception (max USI)	2.6	☐ N/A	☐ equal or higher performing	☐ lower performing
Glass block (max area: 1.85m2) (max USI)	2.9	☐ N/A	☐ equal or higher performing	☐ lower performing
Skylights (max USI)	2.75	☐ N/A	☐ equal or higher performing	☐ lower performing

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

Component	**Minimum ETR value (m2K/W)**			
Attic/access hatches	2.6	☐ N/A	☐ equal or higher performing	☐ lower performing
Garage overhead doors	1.1	☐ N/A	☐ equal or higher performing	☐ 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 >= 95%	☐ Yes
Gas fired boiler	<= 88kW[300 kbtu/h]	CAN/CSA-P.2	AFUE >= 90%	☐ 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	☐ Yes
Other:				☐ Yes
Other:				☐ Yes

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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	☐ Yes
Other gas fired hot water tank:				☐ Yes
Gas fired tankless	< 58 kW, V <= 7.6L, flow < 6.4 L/min	CAN/CSA-P.2	UEF >= 0.86	☐ Yes
Electric tank	<= 12 kW & 50L < V <= 270L	CAN/CSA-C191	SL <= 35 + 0.2V (top) & SL <= 40 + 0.2V (bottom)	☐ Yes
Electric tankless	-	-	approaching 100%	☐ Yes
Heat pump water heater	<24A and <=250V	CAN/CSA-C745	EF >= 2.1	☐ Yes
Other:				☐ Yes

*FHR = first hour rating

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Indicate the following, as applicable:

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