

# NBC(AE)2019:B:9.36. ENERGY EFFICIENCY PRESCRIPTIVE PATH SUMMARY AND CHECKLIST

**PROJECT ADDRESS :** \_\_\_\_\_

<input type="checkbox"/> <b>PRESCRIPTIVE PATH</b> Complete 1A -OR- 1B and 2 to 5 below	<input type="checkbox"/> <b>PRESCRIPTIVE PATH TRADE-OFF OPTIONS</b> Complete 1A -OR- 1B and 2 to 5 below, and attach Trade-off Calculator results
<b>For PERFORMANCE PATH, use Performance Path Summary and checklist Form Application</b>	

## 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" (m <sup>2</sup> K/W) (RSI)				PROPOSED ASSEMBLY including insulation type/R-value
<b>ROOF</b>					
Cathedral ceilings 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	
<b>ABOVE-GROUND WALLS</b>					
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	2.92	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Other: kitchen cabinet wall(s)	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	
<b>RIM JOISTS</b>					
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	
<b>ABOVE-GROUND FLOOR</b>					
Exterior cantilever	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
Over attached garage	4.86	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
<b>BELOW-GRADE WALLS</b>					
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 ≥ 0.6 m	3.08	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
<b>UNHEATED FLOOR:</b> Above frost line	1.96	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
<b>ANY HEATED FLOOR:</b> In ground contact	2.84	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less	
<b>SLAB ON GRADE:</b> 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 <sup>2</sup> K/W) (RSI)			PROPOSED ASSEMBLY including insulation type/R-value
<b>ROOF</b>				
Cathedral ceilings 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
<b>ABOVE-GROUND WALLS</b>				
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	2.81	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
Other: kitchen cabinet wall(s)	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
<b>OTHER:</b>	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
<b>RIM JOISTS</b>				
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
<b>ABOVE-GROUND FLOOR</b>				
Exterior cantilever	5.02	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
Over attached garage	4.86	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
<b>BELOW-GRADE WALLS</b>				
Frost walls, above-ground wall portions where average exposure < 0.6m	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 ≥ 0.6 m	2.97	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
<b>UNHEATED FLOOR</b> above frost line	1.96	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
<b>ANY HEATED FLOOR</b> In ground contact	2.84	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less
<b>SLAB on GRADE</b> with integral footing	2.84	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or better	<input type="checkbox"/> less

## 2

Check proposed windows, doors, etc; maximum prescriptive overall thermal transmittance “u-values”

FENESTRATION & DOOR COMPONENTS	MAXIMUM “U” value (W/m <sup>2</sup> K)				
Windows ( max USI )	1.60	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing	<b>9.36.2.7.A alternative: min ER=25</b>
Exterior doors ( max USI )	1.60	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing	<b>9.36.2.7.A</b>
Single exterior door exception ( max USI )	2.60	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing	<b>9.36.2.7.(5), NOTE on plans</b>
Glass block; max area: 1.85 m <sup>2</sup> ( max USI )	2.90	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing	<b>9.36.2.7.(4), NOTE on plans</b>
Skylights ( max USI )	2.70	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing	<b>9.36.2.6.(4), include shaft ETR/detail</b>
Attic/access hatches ( min nom RSI = 2.6 )	2.60	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing	<b>9.36.2.7.(8), NOTE on plans</b>
Garage overhead doors ( min nom RSI = 1.1 )	1.10	<input type="checkbox"/> N/A	<input type="checkbox"/> equal or higher performing	<input type="checkbox"/> lower performing	<b>9.36.2.7.(7), NOTE on plans</b>

## 3

CHECK HVAC components/capacity/standard/ minimum performance; or write 9.36.3.10. selection(s) in space below

COMPONENT/EQUIPMENT	HEATING/COOLING CAPACITY	STANDARD	MIN PERFORMANCE	
Gas-fired forced air furnace	< 65.9kW [222,000Btu/h]	CAN/CSA-P.2	≥ AFUE 92%	<input type="checkbox"/> YES
Gas-fired boiler	≤ 88kW[300kBtu/h]	CAN/CSA-P.2	≥ AFUE 90%	<input type="checkbox"/> YES
Gas-fired tankless combo pace/water heating	≤ 73.2kW if SWH-based ≤ 87.9kW if boiler-based	CAN/CSA-P.9	TPF = 0.65	<input type="checkbox"/> YES
Other:				<input type="checkbox"/> YES
Other:				<input type="checkbox"/> YES

## 4

CHECK Service Water Heating components/input/standard/performance; or write 9.36.4.2. selection in space below

COMPONENT	INPUT	STANDARD	PERFORMANCE REQ'T	
Gas-fired hot water tank	< 22kW [75,000Btu/h]	CAN/CSA-P.3	EF ≥ 0.67 - .0005	<input type="checkbox"/> YES
Gas-fired tankless	> 73.2kW [250,000Btu/h]		Et ≥ 80%	<input type="checkbox"/> YES
	≤ 73.2kW [250,000Btu/h]	CAN/CSA-P.7	EF ≥ 0.8	<input type="checkbox"/> YES
Electric tank	≤ 12kW [ 50 L - 270L capacity ]	CAN/CSA-C191	SL ≤ 35 + 0.20V (top) SL ≤ 40 + 0.20V (bottom)	<input type="checkbox"/> YES
Electric tankless	–	–	approaching 100%	<input type="checkbox"/> YES
Other:				<input type="checkbox"/> YES

# 5

INDICATE the following, as applicable

<p><b>PRIMARY WALL AIR BARRIER LOCATION/MATERIAL:</b></p> <p>Interior poly with spray foam at rim joists and cantilevers <input type="checkbox"/></p> <p>Interior poly with exterior flexible wrap at rim joists and cantilevers <input type="checkbox"/></p> <p>Interior poly with sealants/tapes at floor, window, wall and ceiling intersections <input type="checkbox"/></p> <p>Exterior flexible air barrier system with all joints and edges sealed <input type="checkbox"/></p> <p>Exterior rigid air barrier system with all joints and edges sealed <input type="checkbox"/></p> <p>Other: (specify) _____ <input type="checkbox"/></p>	<p><b>CEILING BELOW ATTIC/VAULT/FLAT</b></p> <p><b>ROOF AIR BARRIER:</b></p> <p>Interior poly <input type="checkbox"/></p> <p>Other: (specify) _____ <input type="checkbox"/></p>
Intake duct has "fail-open" motorized damper—except where disallowed by other regulation or where system operates continuously? [9.36.3.3.]	<input type="checkbox"/> YES
Discharge duct has motorized damper, or gravity/spring-operated backflow damper installed? [9.36.3.3.]	<input type="checkbox"/> YES
Min 12mm thick pipe insulation for minimum 2m from inlet and outlet of water heater? [9.36.4.4]	<input type="checkbox"/> YES
Min 12mm thick pipe insulation for all piping on recirculating service hot water system? [9.36.4.4]	<input type="checkbox"/> YES
HRV conforms CAN/CSA-C439 "Rating the Performance of Heat/Energy-Recovery Ventilators" sensible HR efficiency $\geq 60\% @ 0^{\circ}\text{C}$ and $\geq 55\% @ -25^{\circ}\text{C}$ ?	<input type="checkbox"/> N/A <input type="checkbox"/> YES
A Blower Door Test Report will be submitted after construction and prior to occupancy inspection for energy code compliance?	<input type="checkbox"/> NO <input type="checkbox"/> YES