

SELECT ABC 9.36 compliance path and complete questions (1)–(4) accordingly. **Edmonton area is considered Zone 7A on all Tables.**

<input type="checkbox"/> PRESCRIPTIVE PATH Complete the four following checklist (1)–(4) listing building characteristics for your project to demonstrate compliance with the solutions prescribed in 9.36.2.1-10., 9.36.3. and 9.36.4.	<input type="checkbox"/> PRESCRIPTIVE PATH with TRADE-OFF PATH Complete the four following checklist (1)–(4). Combines prescriptive path with trade-offs calculated per application of 9.36.2.11 to Windows (facing same direction) and/or above-ground roof/wall/floor assemblies. Calculations must be submitted.	<input type="checkbox"/> PERFORMANCE PATH A pre-build energy model Performance Report and Summary with declaration of person responsible for report must be attached to this application. Blower door test required. Yes <input type="checkbox"/> or No <input type="checkbox"/>
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(1) Check applicable proposed construction; minimum prescriptive **effective thermal resistance** “ETR: for roofs/walls/floors

	HRV Yes <input type="checkbox"/> Complete this Column	HRV No <input type="checkbox"/> Complete this Column
Above-Ground Assemblies	Minimum ETR (m ² K/W) (RSI)(R-Value)	Minimum ETR (m ² K/W) (RSI)(R-Value)
Ceiling below attic	8.67 (R-49) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	10.43 (R-59) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Cathedral ceiling -or- flat roof	5.02 (R-28) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	5.02 (R-28) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Wall, and foundation exposure average ≥ 600mm	2.97 (R-17) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	3.46 (R-20) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Floor over unheated space	5.02 (R-28) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	5.02 (R-28) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Tall wall	2.97 (R-17) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	3.08 (R-18) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Rim Joist	2.97 (R-17) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	3.08 (R-18) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Below-Grade or Ground Contact Assemblies		
Wall and foundation exposure average up to 600 mm	2.98 (R-17) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	3.46 (R-20) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Unheated floor – below frost line	0 N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	0 N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Unheated floor – above frost line	1.96 (R-11) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	1.96 (R-11) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Heated Floor – below frost line	0.88 (R-5) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	0.88 (R-5) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Heated Floor – above frost line	1.32 (R-7.5) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	1.32 (R-7.5) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
Slab-on-ground with integral footing	2.84 (R-16) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>	3.72 (R-21) N/A <input type="checkbox"/> equal or better <input type="checkbox"/>
HRV conforms? CAN/CSA-C439, “Rating the Performance of Heat/Energy-Recovery Ventilators” sensible HR efficiency ≥ 60%@0C & ≥ 55%@-25C <input type="checkbox"/> Yes		

If any proposed E.T.R. value is less than the minimum value in the chosen column: attach trade-off calculations or pre-build Performance Report.

(2) Check applicable proposed construction; Maximum prescriptive overall thermal transmittance “U values” for windows/doors

Zone 7A

Fenestration & Door Components	Maximum “U” Value (W/m ² K)		
Windows max U _{SI}	1.60	N/A <input type="checkbox"/> equal or less <input type="checkbox"/> exceeds <input type="checkbox"/>	9.36.2.7.A alternative: min ER=25
Exterior doors max U _{SI}	1.60	N/A <input type="checkbox"/> equal or less <input type="checkbox"/> exceeds <input type="checkbox"/>	9.36.2.7.A
Single exterior door exception	2.60	N/A <input type="checkbox"/> equal or less <input type="checkbox"/> exceeds <input type="checkbox"/>	9.36.2.7.(5), Note on plans
Glass block; max area: 1.85 m ²	2.90	N/A <input type="checkbox"/> equal or less <input type="checkbox"/> exceeds <input type="checkbox"/>	9.36.2.7.(4), Note on plans
Skylights max U _{SI}	2.70	N/A <input type="checkbox"/> equal or less <input type="checkbox"/> exceeds <input type="checkbox"/>	9.36.2.6.(4), include shaft ETR/detail
Attic/access hatches Min nom RSI = 2.6 (R-15)	Yes <input type="checkbox"/> N/A <input type="checkbox"/>		9.36.2.7.(8), Note on plans
Garage overhead doors Min nom RSI = 1.1 (R-6)	Yes <input type="checkbox"/> N/A <input type="checkbox"/>		9.36.2.7.(7), Note on plans

If any proposed window, door or skylight exceeds maximum values listed, attach **Trade-Off** calculations or pre-build **Performance Report**. 9.36.2.7.A,B,C Tables

(3) List HVAC components/capacity/standard/minimum performance; check if applicable, or complete this section. See 9.36.3.10.

Component/Equipment	Heating/Cooling Capacity	Standard	Min Performance	
Gas-fired forced air furnace	<65.9kW [222,000Btu/h]	CAN/CSA-P.2	≥ AFUE 92%	Yes <input type="checkbox"/>
Gas fired boiler	< 88 kW [300,000 Btu/h]	CAN/CSA-P.2	>AFUE 90%	Yes <input type="checkbox"/>
Gas fired tankless combo space water/heating	<87.9 kW if boiler based <73.2kW if service water heater	CAN/CSA-P.9	Thermal Performance factor – 0.65	Yes <input type="checkbox"/>
Specify Performance Path equipment: Confirm intention: Discharge duct has motorized damper, or gravity/spring-operated backflow damper installed and Intake duct has “fail-open” motorized damper—Except where disallowed by other regulation or where system operates continuously [9.36.3.3.]				Yes <input type="checkbox"/> No <input type="checkbox"/>

(4) List Service Water Heating components/input/standard/performance; check if applicable, or complete this section. See 9.36.4.2.

Component	Input	Standard	Performance Req’t	
Gas-fired hot water tank	<22kW [75,000Btu/h]	CAN/CSA-P.3	EF ≥ 0.67-.0005V	Yes <input type="checkbox"/>
Electric Tank	<12kW [50 L to 270 L]	CAN/CSA-C191	SL<35+.20V(top inlet) SL<40=20V(bottom inlet)	Yes <input type="checkbox"/>
Gas fired (tankless)	<73.2 kW[250,000 Btu/h]	CAN/CSA-P7	EF>0.8	Yes <input type="checkbox"/>
Specify Performance Path components: Confirm intention: Minimum 12mm thick pipe insulation to be installed for minimum first 2m of piping from inlet and outlet of water heater. All continuous-operating recirculating service water heating system piping shall be covered with minimum 12mm pipe insulation [9.36.4.4.]				Yes <input type="checkbox"/> No <input type="checkbox"/>

Conversion Factors

$I/RSI = \underline{U \text{ value}}$

$RSI \times 5.678 = \underline{R \text{ value}}$

$I/U = \underline{RSI}$

9.36 Exemptions are as follows: 1) storage and parking garages that serve residential occupancies. 2) Non-residential occupancies and F-2 Industrial occupancies greater than 300 m². 3. Unconditioned spaces in buildings (sunrooms etc.).

ABC Section 9.36 Energy Efficiency applies to a limited range of Part 9 occupancies. The prescriptive path, with or without trade-off options, applies to (a) buildings of residential C occupancy, (b) buildings containing D, E or F3 occupancies whose combined total floor area does not exceed 300 m², and (c) any mix of occupancies described in (a) and (b) that results in a Part 9 building, i.e.: not exceeding 600m² in building area or 3 storeys in building height. The performance path may be applied only to (a) houses with or without a secondary suite, and (b) purely residential buildings with common space floor area not exceeding 20% of the total floor area of the building. Any building may be constructed per NEBC.

Property Civic Address: _____

Building Permit Number: _____