

Project Information

Project Address _____

Application Number (Office use only) _____

Coordinating NECB Design Professional Name _____

Note: *The Energy Code Regulations* specifies the Energy Performance Tier from NECB Part 10 that must be met as the minimum level of performance. While 'Tier 1' is in force, the Prescriptive compliance path continues to be accepted by the City of Yorkton without the need for a formal 'Alternative Solution' (since Tier 1 from Part 10 is equal to the prescriptive requirements of NECB). However, when higher Tiers are in force, this Prescriptive Report may only be used for alteration applications in order to demonstrate continued compliance for NECB Parts that had been previously modeled on prescriptive assumptions (see NECB Sentence 10.1.1.2.(2)).

Part 3 – Building Envelope

For Additions: fenestration is being calculated for (select one):

☐ Addition only

☐ Addition & existing combined

General

Proposed

NECB Limit

Gross wall area (m²)

N/A

Total window area (m²)

N/A

Total exterior door area (m²)

N/A

Gross roof area (m²)

N/A

Total skylight area (m²)

< 0.02 x (gross roof area)

Exposed floor areas (m²)

N/A

HDD @ 18°

HDD @ 15°

Overall Thermal Transmittance – U (W/(m²·K))

FDWR (%)*

≤ 0.293*

≤ 0.353*

Opaque walls (above ground)

≤ 0.215

≤ 0.240

Opaque walls (in contact with ground)

≤ 0.284

≤ 0.284

Roofs (above ground)

≤ 0.121

≤ 0.138

Roofs (in contact with ground)

≤ 0.284

≤ 0.284

Floors (above ground)

≤ 0.138

≤ 0.156

Air Leakage (L/(s·m²))

Floors (in contact with ground)

≤ 0.757 for 1.2m

≤ 0.757 for 1.2m

Fixed fenestration and curtain walls

≤ 0.20

Operable windows, skylights, and doors

≤ 0.5

Overhead doors

≤ 2

Operable revolving and auto sliding doors

≤ 5

* FDWR based on HDD for Regina.

Part 4 – Lighting

Proposed building IILP (Installed Interior Lighting Power) (kW) (not to exceed the ILPA below)

Interior Lighting Power Method: (Select One Below)

☐ ILPA (Interior Lighting Power Allowance - building area method)

Lighting power density (W/m²)

OR

Gross lighted Area (m²)

Proposed ILPA building area method (kW)

☐ ILPA (Interior Lighting Power Allowance – space-by-space method)**

**Provide a detailed line-by-line breakdown of spaces, their floor area (m²), the associated lighting power densities (W/m²) and the resulting lighting power allowances (kW) & controls

Proposed ILPA space-by-space method (kW)

Exterior Lighting Power: (all values below to be in Watts)				
Specific Lighting Allowance _____ {Table 4.2.3.1-C} (If multiple specific applications used in design, provide a table showing all)	+	Portion of Basic Site Allowance _____	= Specific Total Exterior Allowance _____ \geq	Specific Installed Lighting _____
Sum of General Lighting Allowances _____ {Table 4.2.3.1-D}	+	Remaining Basic Allowance _____	= General Total Exterior Allowance _____ \geq	General Installed Lighting _____
Other Exterior Lighting Allowance _____ {Table 4.2.3.1-E}	+	Remaining Basic Allowance _____	= Other Exterior Allowance _____ \geq	Other Installed Lighting _____
		Basic Site Allowance _____ {Table 4.2.3.1-B} (Sum of the portions of basic site allowance above are not to exceed this amount)		Total Exterior Lighting Installed _____
Interior lighting controls are designed in accordance with Subsection 4.2.2.				<input type="checkbox"/> Yes <input type="checkbox"/> No
Exterior lighting controls are designed in accordance with Subsection 4.2.4.				<input type="checkbox"/> Yes <input type="checkbox"/> No
Interior and exterior installed Lighting Power displayed in table format on the drawings				<input type="checkbox"/> Yes <input type="checkbox"/> No
Interior and exterior lighting controls provided in a table format on the drawings				<input type="checkbox"/> Yes <input type="checkbox"/> No

Part 5 – Heating, Ventilating and Air-Conditioning Systems				
	Proposed		NECB Limit	
	Constant Volume	Variable Air Volume	Constant Volume	Variable Air Volume
Fan system power demand (W/L/s)			≤ 1.6	≤ 2.65
Commercial kitchen design ventilation rate (L/s)			<input type="checkbox"/> < 1410 L/s <input type="checkbox"/> Demand control provided	
Ducts sealed, insulated, and protected in conformance with Subsection 5.2.2. Intakes and outlets conform with Subsection 5.2.4.	<input type="radio"/> Yes <input type="radio"/> No			
Economizer system required in conformance with Articles 5.2.2.7.	<input type="radio"/> Yes <input type="radio"/> No			
Air economizer has been designed to Article 5.2.2.8 <input type="checkbox"/> or Article 5.2.2.9 <input type="checkbox"/> (pick one)	<input type="radio"/> Yes <input type="radio"/> No			
Insulation and protection of piping systems for HVAC systems in conformance with Subsection 5.2.5.	<input type="radio"/> Yes <input type="radio"/> No			
Temperature controls been designed in conformance with Subsection 5.2.8.	<input type="radio"/> Yes <input type="radio"/> No			
Type of ventilation system operation	<input type="checkbox"/> Continuous <input type="checkbox"/> Non-continuous			
Percentage of outdoor air at design airflow conditions (%)				
Energy recovery system required	<input type="radio"/> Yes <input type="radio"/> No			
Energy recovery system efficiency (%)				
Please provide details of proposed HVAC equipment and component specifications for the building, using the table below: (Please note if more space is needed, please submit a separate list using the same format) Table 5.2.12.1				
Component or Equipment	Cooling or Heating Capacity, kW	Standard	Rating Conditions	Performance Rating

Part 6 – Service Water Systems							
	Proposed		NECB Limit				
	Constant Volume	Variable Air Volume	Constant Volume	Variable Air Volume			
Shower heads (L/min)			≤ 7.6 L/min				
Lavatories (L/min)			\leq Private 5.7 L/min \leq Public 1.9 L/min				
Service water piping insulated in conformance with Subsection 6.2.3	<input type="radio"/> Yes <input type="radio"/> No						
Please provide details of the proposed service water heating equipment specifications for the building, using the table below: (Please note if more space is needed, please submit a separate list using the same format) Table 6.2.2.1.							
Component or Equipment	Input	Capacity (L)	V _t (L)	Input/V _t (W/L)	Standard	Rating Conditions	Rated Performance

Part 7 – Power Systems

	Proposed	NECB Limit
Load carrying capacity (kVA)		<input type="checkbox"/> < 250 kVA <input type="checkbox"/> Monitoring system provided

Compliance Confirmation

Effective thermal transmittance including the effects of thermal bridging has been calculated as per Article 3.1.1.7	<input type="radio"/> Yes	<input type="radio"/> No
The building envelope meets air leakage requirements from Article 3.2.4.1	<input type="radio"/> Yes	<input type="radio"/> No
Building energy prescriptive compliance meets NECB 2020	<input type="radio"/> Yes	<input type="radio"/> No

Declaration

Signature of Coordinating NECB Design Professional who has completed this form:

Signature _____

Date _____