

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 Trade-Off 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/trade-off requirements of NECB). However, when higher Tiers are in force, this Trade-Off 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 *Not applicable to additions or semi-heated buildings as per Sentence 3.3.1.1.(2)

General		Proposed	NECB Limit	
	Gross wall area (m ²)		N/A	
	Total window area (m ²)		N/A	
	Total exterior door area (m ²)		N/A	
	Gross roof area (m ²)		N/A	
	Total skylight area (m ²)		N/A	
	Exposed floor areas (m ²)		N/A	
			HDD @ 18°	HDD @ 15°
Overall Thermal Transmittance – U (W/(m ² ·K))	FDWR (%)		N/A	N/A
	Opaque walls (above ground)		N/A	N/A
	Opaque walls (in contact with ground)		≤ 0.284	≤ 0.284
	Roofs (above ground)		N/A	N/A
	Roofs (in contact with ground)		≤ 0.284	≤ 0.284
	Floors (above ground)		N/A	N/A
	Air Leakage (L/(s·m ²))	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	
		Proposed (U _{ip} *A _{ip})	Reference (U _{ir} *A _{ir})	
	Vertical (above ground portions)			
	Horizontal (above ground portions)			

Compliance Confirmation

U _{ip} A _{ip} is less than or equal to U _{ir} A _{ir} in conformance with NECB Article 3.3.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Effective thermal transmittance including the effects of thermal bridging has been calculated as per Article 3.1.1.7	<input type="checkbox"/> Yes <input type="checkbox"/> No
Have you supplied the sealed calculations determining the above values	<input type="checkbox"/> Yes <input type="checkbox"/> No

Part 4 – Lighting (Note: Trade-off applies to interior lighting and controls only. Exterior lighting fields provided to avoid filling out on Prescriptive Form)

Prescriptive 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 _____ ≥ Specific Installed Lighting _____
Sum of General Lighting Allowances _____ (Table 4.2.3.1-D)	+	Remaining Basic Allowance _____ =	General Total Exterior Allowance _____ ≥ General Installed Lighting _____
Other Exterior Lighting Allowance _____ (Table 4.2.3.1-E)	+	Remaining Basic Allowance _____ =	Other Exterior Allowance _____ ≥ 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 _____
Exterior lighting controls are designed in accordance with Subsection 4.2.4.			<input type="radio"/> Yes <input type="radio"/> No
Exterior installed Lighting Power displayed in table format on the drawings			<input type="radio"/> Yes <input type="radio"/> No
Exterior lighting controls provided in a table format on the drawings			<input type="radio"/> Yes <input type="radio"/> No
Trade-Off Interior Lighting Power:			
IILE - Installed Interior Light Energy (kW·h/a) (Proposed)			
ILEA -Interior Lighting Energy Allowance (kW·h/a) (Reference)			
IILE is less than or equal to ILEA in conformance with NECB Article 4.3.1.3.			<input type="radio"/> Yes <input type="radio"/> No
Have you supplied the sealed calculations determining the above values			<input type="radio"/> Yes <input type="radio"/> No

Compliance Confirmation

The building envelope meets air leakage requirements from Article 3.2.4.1 ☐ Yes ☐ No

Building energy trade-off compliance meets NECB 2020 ☐ Yes ☐ No

Declaration

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

Signature _____

_____ Date