Tiered Performance Compliance

Section 9.36 of the National Building Code of Canada

PBI — Professional Building Inspections, Inc.

This form is intended to clarify the compliance with Section 9.36, performance path.

Must be completed by a competent person who is knowledgeable, experienced and trained in building design under Section 9.36 of the NBC and acceptable to the Authority Having Jurisdiction.

Address:	
Occupancy Class:	**Conditioned Space Volume (m^3):**
Select Performance Tier: ☐ Tier 1 ☐ Tier 2 ☐ Tier 3 ☐ Tier 4 ☐ Tier 5	

Performance Compliance Path 9.36.5. & 9.36.7.

Available only to houses with or without secondary suites, buildings that contain only dwelling units and common spaces whose total floor area does not exceed 20% of the total floor area of the building.

Input parameters (not required for EnerGuide compliance)		**Reference Model**	**Proposed Model**
Airtightness Level (air exchanges per hour @ 50 Pa)			
Heat Loss/Heat Gain			
HRV efficiency			
Thermal mass (MJ/m^2•°C)			
Ventilation rate (l/s)			
Fenestration and door to wall ratio (FDWR) – reference (%)			
Direction of front elevation		N ☐ NE ☐ E ☐ SE ☐ S ☐ SW ☐ W ☐ NW ☐	N ☐ NE ☐ E ☐ SE ☐ S ☐ SW ☐ W ☐ NW ☐
Area of windows and doors	Front elevation (m^2)		
	Rear elevation (m^2)		
	Left elevation (m^2)		
	Right elevation (m^2)		
	Total area of windows (m^2)		
	Total area of opaque doors (m^2)		
Energy use (GJ)			
Software Information			
Software title		**Version**	
Is software Hot2000 or ANSI/ASHRAE 140 compliant? Modelling summary reports generated for both the reference and proposed houses are required to be attached.		Yes / No	

Proposed House - Building Assembly Details:					
	Framing		**Insulation**	**Furnace Size:**	
Ceiling:	" o.c.		R -	**Furnace Rating:**	
Exterior Wall:	2" x @ " o.c.		R -	**Water Heater:**	
Tall Wall:	2" x @ " o.c.		R -	**HRV:**	☐ Yes ☐ No
Foundation Wall:	2" x @ " o.c.		R -	**Air Conditioner:**	
Floor Headers:			R -	**Air Barrier** (NBC):	
Cantilever/Bonus Rm:	2" x @ " o.c.		R -	**Attic Hatch:**	
Slab:	☐ None ☐ Int ☐ Ext / (1.2m)		thick -	**Doors** (U-Values):	
Cladding Type:				**Windows:** (List all U-Values)	
Comments:					

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Compliance via Tiered Performance Results (9.36.7.)

Energy Performance Metrics (not Required for Energuide Compliance)	Reference Model	Proposed Model	Target Energy Performance
Total volume of conditioned space within the building or house > 300m³ and where volume is not determined			
Percent heat loss reduction (Required: ≥ 5%) (calculated by subtracting the annual gross space heat loss of the proposed house from the annual gross space heat loss of the reference house and dividing the result by annual gross space heat loss of the reference house)			Achieved:
Percent improvement (Required: ≥ 10%) (calculated by subtracting the annual energy consumption of the proposed house from the house energy target of the reference house and dividing the result by the house energy target of the reference house), *or*			Achieved: or
Percent house energy target (Required: ≤ 90%) (calculated by dividing the annual energy consumption of the proposed house by the house energy target of the reference house)			Achieved:
Peak cooling load (≤ reference house)			☐ Yes ☐ No
Total volume of conditioned space within the building or house ≤ 300m³ and where volume is not determined			
Percent house energy target (Required: ≤ 100%) (calculated by dividing the annual energy consumption of the proposed house by the house energy target of the reference house)			Achieved:

Declaration			
Name		**Company**	
Email		**Phone**	

I hereby certify that the design parameters and/or calculations submitted were prepared in full accordance with the operation procedures of the software and:

☐ *Subsection 9.36.5 of the 2020 NBC.*

☐ *Alternative Solution (attach supporting documents)*

☐ *EnerGuide Rating System, v15. I am a qualified Energy Advisor and the submitted design achieves the minimum annual energy improvement target of 2020 NBC.*
(a compliance summary will be submitted prior to full occupancy)

Signature: _____ Date: _____

Where the air-leakage rate is a value less than 3.2 ACH@50 Pa, an airtightness test is required to be conducted. Provide the Airtightness Certificate to office@pro-inspections.ca once complete (required prior to Occupancy inspection).