



Town of Strathmore
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Energy Performance Compliance Checklist for Building Permit Applications with NBC 2019-AE

Date	
Project	
Project address	
Applicant name	
Applicant address	
Building Permit #	

Alberta Building Code, Section 9.36 scope:

- 1) Section 9.36 is concerned with the energy used by buildings as a result of
 - a) The design and construction of the building envelope, and
 - b) The design and construction or specification of systems and equipment for
 - i) heating, ventilating or air-conditioning, and
 - ii) service water heating.

Section 9.36 of National Building Code 2019 – Alberta Edition applies to the following:

Prescriptive method

- a) buildings of residential occupancy to which Part 9 applies,
- b) buildings containing business and personal services, mercantile or low-hazard industrial occupancies to which Part 9 applies whose combined total floor area (not building area) does not exceed 300 m², excluding parking garages that serve residential occupancies, and
- c) buildings containing a mix of the residential and non-residential occupancies described in Clauses (a) and (b).

Performance method

- a) houses with or without a secondary suite,
- b) buildings containing only dwelling units and common spaces whose total floor area does not exceed 20% of the total floor area of the building.

A. Classification of Building, check applicable box:

Group A (Assembly)	<input type="checkbox"/>
Group B (Care & Detention)	<input type="checkbox"/>
Group C (Residential)	<input type="checkbox"/>

Group D (Office & Personal Service)	<input type="checkbox"/>
Group E (Mercantile)	<input type="checkbox"/>
Group F (Industrial)	<input type="checkbox"/>

B. Total floor area of the project (developed and undeveloped):

Basement floor	<input type="checkbox"/> m ² <input type="checkbox"/> ft ²
Main or First floor	<input type="checkbox"/> m ² <input type="checkbox"/> ft ²
Second floor (if applicable)	<input type="checkbox"/> m ² <input type="checkbox"/> ft ²
Total	<input type="checkbox"/> m ² <input type="checkbox"/> ft ²

C. Scope of the project within, or method selected, check one:

NBC 2019-AE, Division B, Section 9.36	
NECB	

If intending Code compliance using the National Energy Code for Buildings, submit the following:

- a) if prescriptive path, all relevant Articles in Parts 3 to 7;
- b) if performance path, verification of the computer software program to ANSI/ASHRAE 140. Any exclusions in the calculations are to be identified, and certification of the technician producing the software report.

D. 9.36 compliance path used, check one:

Prescriptive path	
Trade-off path	
Performance path	

- 1. Details noted in Section H of this checklist must correspond to the details noted on the drawings.
- 2. Trade-off path details in accordance with 9.36.2.11. must be submitted for any trade-off proposed for above ground assemblies.
The areas of assemblies used in the calculation for a trade-off shall be clearly identified on the drawings.
- 3. Performance path shall include the type of software used, a statement from the technician using the software of certification for the software, and a document showing software compliance to ASHRAE 140. The material submitted must specify the foundation, wall and roof assemblies. Complete report is to be submitted with the Building Permit application for the software calculations including reference building and proposed building.

E. Space Heating System

Efficiency of the unit _____ %
Energy source gas electric other (specify type) _____
Make and model of the unit _____

Efficiency of the second unit (if applicable) _____ %
Energy source gas electric other (specify type) _____
Make and model of the second unit (if applicable) _____

F. Service Water Heating System

Efficiency of the unit _____ %
Energy source gas electric other (specify type) _____
Make and model of the unit _____

Efficiency of the second unit (if applicable) _____ %
Energy source gas electric other (specify type) _____
Make and model of the second unit (if applicable) _____

The first 2 meters of outlet piping downstream and of inlet piping upstream leading from a storage tank or heating vessel shall be covered with piping insulation that is at least 12 mm thick.

G. Heat Recovery Ventilator Included:

Yes		If yes:	HRV type
No			HRV efficiency

Note approximate location of HRV on the drawings.

H. Building Envelope (to be completed if Prescriptive or Trade-off Paths are used). If different assemblies are used on the same project, identify the locations of each type on the drawings and provide details of each assembly on a separate page and attach it to this Checklist.

1. Wall assembly (complete the following)

Component	Description	RSI effective value	Required RSI eff for zone 7A
Exterior air film			
Exterior cladding			
Exterior sheathing			
Stud size & spacing			
Insulation			
Polyethylene (VB)			
RSI parallel value			
Interior finish			
Interior air film			
Total wall assembly			

2. Roof assembly (complete the following)

Component	Description	RSI effective value	Required RSI eff for zone 7A
Roofing material			
Roof sheathing			
Insulation type			
Depth of insulation when installed			
Polyethylene (VB)			
RSI parallel value			
Interior finish			
Interior air film			
Total roof assembly			

3. Foundation assembly (complete the following)

Component	Description	RSI effective value	Required RSI eff for zone 7A
Exterior air film			
Exterior insulation			
Foundation			
Air space			
Stud size & spacing			
Interior insulation			
Polyethylene (VB)			
RSI parallel value			
Interior finish			
Interior air film			
Total foundation assembly			

I. Basement floor (complete the following)

a) Basement floor slab heated	Yes <input type="checkbox"/>	No <input type="checkbox"/>
b) Basement floor slab less than 1.2 meters below grade	Yes <input type="checkbox"/>	No <input type="checkbox"/>

If yes to a), complete the following:

Foundation/floor slab insulation type & thickness	Location of insulation to be placed	RSI effective value	Required RSI effective for zone 7A

J. Attached garage vehicle door

Minimum insulation value to be not less than 1.1 RSI.

Insulation value (RSI) of garage vehicle door	
Weather-stripping to be installed around garage vehicle door	Yes <input type="checkbox"/> No <input type="checkbox"/>

K. Fenestration

Submit supplier's list of all windows and exterior doors, the U value for each and the energy rating for each.

Name (print)

Signature

Date