



**FOOTHILLS COUNTY**  
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Box 5605  
High River, AB T1V 1M7  
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www.FoothillsCountyAb.ca

## Requirements for National Building Code – Alberta Edition 2019 Division B Section 9.36 Compliance

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**Project Name:** \_\_\_\_\_  
**Project Address:** \_\_\_\_\_  
**Applicant:** \_\_\_\_\_  
**Applicant Address:** \_\_\_\_\_

### Basic Building Information

Information provided below sets the buildings geometry to establish compliance with the National Building Code – Alberta Edition 2019 Division B Section 9.36 Energy Efficiency

Climate Zone (HDD): \_\_\_\_\_ Building Area (m<sup>2</sup>): \_\_\_\_\_

Please check the appropriate box to indicate your chosen compliance path  
(Select only one)

PRESCRIPTIVE       PERFORMANCE       TRADE OFF

**SUBMIT THE FOLLOWING INFORMATION WITH YOUR APPLICATION BASED ON THE COMPLIANCE PATH CHOSEN**

### All Compliance Paths

- Identify on the plans any/all assemblies containing heating pipes, cables, or membranes
- Indicate if a Heat Ventilator is proposed and, if it is proposed, note the type and efficiency.
- Indicate effective RSI values for all assemblies of the building envelope, both above ground (e.g. walls, floors, roofs, windows and doors).
- Provide the calculations used to determine the RSI values (hand calculations or from a software program).
- Indicate the air barrier system being proposed.
- Indicate the type and equipment efficiency of the HVAC system components. Include dampers on intakes and outlets where required.
- Note the type and equipment efficiency of the Service Hot Water system components.
- Note if Hot Water recirculation is proposed, and the thickness and extent of pipe insulation in the Service Hot Water System

Provide the Following architectural details indicating continuity of insulation and air barrier:

Attic hatch, eaves/top of wall, upper floor rim joist, top of basement wall/main floor junction, slab/footing junction, cantilever, bonus room floor over attached garage including ducts, typical outlet box detail, typical window/door jamb.

And, if applicable:

Party wall meeting outside wall, electric meter/vent pipe/duct in insulated wall, skylight shaft walls, slab edges in walkouts & heated slabs, masonry chimneys and fireplaces.

## Basic Building Information for all compliance paths

Climate Zone (HDD)		Building Area (m <sup>2</sup> )	
Primary heating equipment (type and fuel)		Efficiency of primary heating equipment (%)	
(If included) Secondary heating equipment (type and fuel)		Efficiency of secondary heating equipment (%)	
Heat recovery Ventilator (HRV)	Y / N	(If included) Efficiency of HRV equipment (%)	
Primary hot water equipment (type and fuel)		Efficiency of primary hot water equipment	
(If included) Secondary hot water equipment (type and fuel)		Efficiency of secondary hot water equipment	
(If included) Space cooling equipment (type and capacity)		(If included) Efficiency of space cooling equipment	
Hot water recirculation pump included	Y / N	Primary air barrier system	

## Performance Compliance Path (residential occupancies)

Information provided below sets the input parameters for the energy simulation used to demonstrate compliance with National Building Code – Alberta Edition 2019 Division B Section 9.36 via performance compliance path

Reference Model	Proposed Model
Which direction does the front of the house face as modelled (N, NE, E, SE, S, SW, W, NW):	
Airtightness (ACH @ 50Pa)      2.50 <input style="width: 20px;" type="text"/>	Airtightness (ACH @ 50Pa)      3.2 <input style="width: 20px;" type="text"/> 2.5 <input style="width: 20px;" type="text"/> other: <input style="width: 50px;" type="text"/>
Solar Heat Gain Co-efficient Glazing (SHGC)      0.26 <input style="width: 20px;" type="text"/>	Solar Heat Gain Co-efficient Glazing (SHGC): <input style="width: 50px;" type="text"/>
Thermal Mass (MJ/ m <sup>2</sup> °C)      0.06 <input style="width: 20px;" type="text"/>	Thermal Mass (MJ/ m <sup>2</sup> °C): <input style="width: 50px;" type="text"/>
Solar Absorbance      0.40 <input style="width: 20px;" type="text"/>	Solar Absorbance: <input style="width: 50px;" type="text"/>
FDWR (%)      17 <input style="width: 20px;" type="text"/> 22 <input style="width: 20px;" type="text"/> Other: <input style="width: 50px;" type="text"/>	FDWR (%): <input style="width: 50px;" type="text"/>
Area of Fenestration North Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>	Area of Fenestration North Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>
Area of Fenestration East Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>	Area of Fenestration East Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>
Area of Fenestration South Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>	Area of Fenestration South Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>
Area of Fenestration West Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>	Area of Fenestration West Elevation (m <sup>2</sup> ): <input style="width: 50px;" type="text"/>
HAVC System Efficiency (%): <input style="width: 50px;" type="text"/>	HAVC System Efficiency (%): <input style="width: 50px;" type="text"/>
HAVC System Efficiency (%): <input style="width: 50px;" type="text"/>	HAVC System Efficiency (%): <input style="width: 50px;" type="text"/>
Space Cooling Equipment Efficiency (%): <input style="width: 50px;" type="text"/>	Space Cooling Equipment Efficiency (%): <input style="width: 50px;" type="text"/>
Service Water Heater Efficiency (%): <input style="width: 50px;" type="text"/>	Service Water Heater Efficiency (%): <input style="width: 50px;" type="text"/>
Service Water Heater Efficiency (%): <input style="width: 50px;" type="text"/>	Service Water Heater Efficiency (%): <input style="width: 50px;" type="text"/>
Ventilation Rate (%): <input style="width: 50px;" type="text"/>	Ventilation Rate (%): <input style="width: 50px;" type="text"/>
<p>Note: If the ACH rate entered above for the proposed house is less than 2.5 ACH a blower door test will be required prior to occupancy. A note to this effect shall be placed on the drawings.</p>	

Performance Data Summary			
Target Energy Use (reference)		Calculated Energy Use (Proposed)	
Software			
Software Title:			Version:
Software Adaptations Made:			
Please attach the full modelling report generated by an ANSI/ASHRAE 140 compliant software package to this form. Failure to submit the complete report will result in your application being placed on hold.			
Declaration			
Please indicate the person responsible for preparing the calculations used to show compliance with the National Building Code – Alberta Edition 2019 Division B Section 9.36.			
Name:			
Representing Firm:			
Contact Information:	Email:	Telephone:	
Address:			
I hereby certify the calculations submitted were prepared in full accordance with the National Building Code – Alberta Edition 2019 Division B Section 9.36. and the operation procedures of the software		Signature	
<b>Nothing in this form, or the attached calculations, shall preclude the safety Codes Officer reviewing this file and requesting an appropriate professional to stamp and sign the submission.</b>			

Note: This form is based on the City of Calgary's 9.36. Performance Compliance Calculation Report.