

**City of Chestermere Requirements for NBC – AE 2019 Division B Section 9.36 Compliance**  
Please consult the companion 9.36 Project Summary User Guide for help in completing this form.

Project Name:		Building Permit Number
Project Address:		
Applicant:		
Applicant Address:		

**Basic Building Information**

Information provided below sets the buildings geometry to establish compliance with the NBC – AE 2019 Division B Section 9.36

Climate Zone (HDD):		Building Area (m <sup>2</sup> ):	
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**Please check the appropriate box to indicate your chosen compliance path**  
(select only one)

PRESCRIPTIVE 
                         
 TRADE-OFF 
                         
 PERFORMANCE

**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 Recovery 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 and below 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, and 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.

**Trade Off Compliance Path**

In addition to the information required above, a trade-off calculation, completed in accordance with 9.36.2.11, must be submitted for any trade-off carried out for above ground assemblies.

The areas of assemblies used in the calculation shall be clearly identified on the drawings.

**Performance Compliance Path (residential occupancies)**

Information provided below sets the input parameters for the energy simulation used to demonstrate compliance with NBC – AE 2019 Division B Section 9.36 via the 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)	2.5 <input type="checkbox"/>	Airtightness (ACH @ 50Pa)	3.2 <input type="checkbox"/> 2.5 <input type="checkbox"/> other:
Solar Heat Gain Co-efficient Glazing (SHGC)	0.26 <input type="checkbox"/>	Solar Heat Gain Co-efficient Glazing (SHGC):	
Thermal Mass (MJ/m <sup>2</sup> °C)	0.06 <input type="checkbox"/>	Thermal Mass (MJ/m <sup>2</sup> °C):	
Solar Absorbance	0.4 <input type="checkbox"/>	Solar Absorbance:	
FDWR (%)	17 <input type="checkbox"/> 22 <input type="checkbox"/> other:	FDWR (%):	
Area of Fenestration North Elevation (m <sup>2</sup> ):		Area of Fenestration North Elevation (m <sup>2</sup> ):	
Area of Fenestration South Elevation (m <sup>2</sup> ):		Area of Fenestration South Elevation (m <sup>2</sup> ):	
Area of Fenestration East Elevation (m <sup>2</sup> ):		Area of Fenestration East Elevation (m <sup>2</sup> ):	
Area of Fenestration West Elevation (m <sup>2</sup> ):		Area of Fenestration West Elevation (m <sup>2</sup> ):	
HVAC System Efficiency (%):		HVAC System Efficiency (%):	
HVAC System Efficiency (%):		HVAC System Efficiency (%):	
Space Cooling Equipment Efficiency (SEER):		Space Cooling Equipment Efficiency (SEER):	
Service Water Heater Efficiency (%):		Service Water Heater Efficiency (%):	
Service Water Heater Efficiency (%):		Service Water Heater Efficiency (%):	
Ventilation Rate (l/s):		Ventilation Rate (l/s):	

**NOTE:** If the ACH rate entered above for the proposed house is less than 2.5ACH a blower door test will be required prior to occupancy. A note to this effect shall be placed on the drawings.

**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 NBC – AE 2019 Division B Section 9.36

Name:			
Representing Firm:			
Contact Information:	email:		tel:
Address:			

I hereby certify that the calculations submitted were prepared in full accordance with NBC – AE 2019 Division B Section 9.36 and the operating procedures of the software

Signature

**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.**