

Parkland County			
Requirements for NBC 2019 AB EDITION Division B Section 9.36 Compliance			
Project Name:		Building Permit Number (completed internally)	
Project Address:			
Applicant:			
Applicant Address:			
Basic Building Information			
Information provided below sets the buildings geometry to establish compliance with the NBC 2019 AB EDITION Division B Section 9.36			
Climate Zone:	7A	Building Area (m <sup>2</sup> ):	
Please check the appropriate box to indicate your chosen compliance path (select only one)			
PRESCRIPTIVE <input type="checkbox"/>		TRADE-OFF <input type="checkbox"/>	PERFORMANCE <input type="checkbox"/>
Submit the following information with you application based on the compliance path chosen:			
<b>All Compliance Paths</b>			
<ul style="list-style-type: none"> <li>Identify on the plans any/all assemblies containing heating pipes, cables, or membranes.</li> <li>Indicate if a Heat Recovery Ventilator is proposed and, if it is proposed, note the type and efficiency.</li> <li>Indicate <b>effective</b> RSI values for all assemblies of the building envelope, both above and below ground (e.g. walls, floors, roofs, windows and doors).</li> <li>Provide the calculations used to determine the RSI values (hand calculations or from a software program).</li> <li>Indicate the air barrier system being proposed.</li> <li>Indicate the type and equipment efficiency of the HVAC system components. Include dampers on intakes and outlets where required.</li> <li>Note the type and equipment efficiency of the Service Hot Water system components.</li> <li>Note if Hot Water recirculation is proposed, and the thickness and extent of pipe insulation in the Service Hot Water system.</li> </ul>			
<p><b>Provide the following architectural details indicating continuity of insulation and air barrier:</b>            Attic hatch, eaves at top of wall, upper floor rim joist, top of basement wall at main floor junction, slab at footing junction, cantilever, bonus room floor over attached garage including ducts, typical outlet box detail, typical window and door jamb.</p> <p><b>And, if applicable:</b>            Party wall meeting outside wall, electric meter and panel areas, vent piping in insulated walls, skylight shaft walls, slab edges in walkouts and heated slabs, masonry chimneys and fireplaces.</p>			
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 2019 AB Edition Division B Section 9.36 using 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 2.5 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 22 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 (%):		Space Cooling Equipment Efficiency (%):	
Service Water Heater Efficiency (%):		Service Water Heater Efficiency (%):	
Service Water Heater Efficiency (%):		Service Water Heater Efficiency (%):	
Ventilation Rate (l/s):		Ventilation Rate (l/s):	
<b>NOTE:</b> 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.			
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 2019 AB Edition Division B Section 9.36			
Name:			
Representing Firm:			
Contact Information:	Email: _____	Telephone: _____	
	Address: _____		
I hereby certify that the calculations submitted were prepared in full accordance with NBC 2019 AB Edition Division B Section 9.36 and the operating 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>			

Materials and Assemblies for all Compliance Paths	
Project Name:	Compliance Path
Project Address:	<input type="checkbox"/> Prescriptive
Applicant:	<input type="checkbox"/> Trade off
Applicant Address:	<input type="checkbox"/> Performance

In order to confirm compliance with Section 9.36 of the NBC 2019 AB Edition, the checklist below is to be completed and submitted as part of any application for a Single Family. Trade off and Performance paths will also require a complete set of calculations to process. Incomplete information will delay the application processing.

BUILDING ENVELOPE 9.36.2						
<b>WALLS</b>	Member size, spacing O.C.	Interior Insulation	Exterior Sheathing	Exterior Insulation	Cladding	Effective RSI
Above Grade Assemblies						
Below Grade Wall						
Basement Slab above Frost Line						
Heated Slab						
Rim Boards						
<b>FLOORS / ROOF</b>	<b>Insulation Type</b>		<b>Insulation Depth</b>		<b>Effective RSI Value</b>	
Insulated floor above garage						
Cantilever						
Roof						
Air Barrier Type / Manufacturer	Interior-Impermeable		Exterior-Permeable			
<b>FENESTRATIONS</b>	<b>Manufacturer</b>		<b>Energy Rating</b>		<b>U Value</b>	
Windows						
Doors						
OH Doors					RSI Value	
HVAC REQUIREMENTS 9.36.3						
<b>HEATING SYSTEM</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Capacity (BTU)</b>		<b>% Efficiency</b>	
Forced Air						
Boiler						
Cooling System						
Electric – Radiant						
HRV			CFM		%@-25°C	
SERVICE WATER HEATER 9.36.4						
	<b>Manufacturer</b>	<b>Model</b>	<b>BTU</b>		<b>% Efficiency</b>	
Storage Water						
Tank-less Heater						