

# 9.36 Project Summary

## Compliance Report



Town of Okotoks Requirements for NBC 2023 (AE) Division B – 9.36 Compliance		
Project Name:		Date:
Project Address:		
Applicant:		
Applicant Address:		

Exterior	
Primary Siding Material/Color: /	Primary Roof Material/Color: /

Indicate Compliance Path (select ONE only)			
<b>Prescriptive</b> (Complete Part A)	<b>Trade-off</b> (Complete Parts A & B)	<b>Performance</b> (Complete Part A & C)	<b>EnerGuide Rating (ERS V15)</b> (Complete Part A & C = ERS docs.)

### Part A – Basic Building Information (required for ALL compliance paths)

Climate Zone (HDD):	<b>Zone 6 - 4920</b>	Building Area (m <sup>2</sup> ):		
		<b>Type/Description</b>	<b>Fuel</b>	<b>Efficiency</b>
<b>Primary</b> heating equipment:				
Secondary heating equipment (eg., heat pump):				
<b>Primary</b> hot water equipment:				
Secondary hot water equipment (if applicable):				
Space Cooling/Air Conditioning:	Yes	No	Efficiency (SEER):	
Heat-Recovery Ventilator included:	Yes	No	Efficiency (%):	
Hot water recirculation pump included: (Required where hot water lines run longer than 11 m)	Yes	No	Primary Air Barrier System:	
Solar Rough-In Installed:	Yes	No		

#### The accompanying drawings must include the following information:

- Attic Hatch
- Top of basement wall/main floor rim joist
- Typical junction box detail
- Cantilevered floors
- Upper floor rim joist
- Eaves of top of wall transition
- Slab/Footing Junction
- Typical window/door jamb and sill details
- **Effective** RSI calculations for all assemblies
- Bonus room/living space over an attached garage (Including ducts and insulation coverage of ducts)
- If Applicable: Party wall intersecting an outside wall, electric meters, vent pipes or ducts in insulated walls, skylight shaft walls, slab edges in walkouts and heated slabs, masonry chimneys and fireplaces

### Building Envelope (9.36.2.)

	Minimum Prescriptive RSI w/o HRV	Minimum Prescriptive RSI with HRV	Proposed Assembly (Description of assembly with nominal R Value)	Proposed Effective RSI
<b>Roof:</b>				
Ceiling under attic	8.67	8.67		
Vaulted Ceilings and flat roofs	4.67	4.67		
<b>Above Grade Walls:</b>				
Exterior Walls (typ.)	3.08	2.97		
Exterior Walls (typ.)				
Exterior Walls (typ.)				
Tall Walls				
House to attached garage walls	2.92	2.81		
Other Walls	3.08	2.97		
<b>Rim Joists:</b>				

## Building Envelope (9.36.2) – Part A Continued

Parallel to joists or pony wall	3.08	2.97	
Perpendicular			
<b>Below Grade Walls:</b>			
Foundation wall – below grade	2.98	2.98	
Foundation wall – above grade	3.08	2.97	
<b>Floors:</b>			
Exterior Cantilever	4.67	4.67	
Over attached garage	4.51	4.51	
Unheated floor – above frost line	1.96	1.96	
Heated floor – in ground contact	2.32	2.32	
Slab on grade with integral footing	1.96	1.96	
<b>Fenestrations:</b>	<b>Maximum “U” Value</b>		<b>Proposed “U” Value</b>
Windows	1.61	Alternative – Minimum energy rating 25	
Exterior Doors			
Skylights	2.75		
Glass Block	2.9	Total aggregate area not more than 1.85 m <sup>2</sup>	
	<b>Minimum “RSI” Value</b>		
Attic Access/Hatches	2.6 (R15)		
Garage Door	1.1 (R6.25)	Applicable if garage is heated	

## Part B – 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.

## Part C – Performance Path (Residential Occupancies)

Information provided below sets input parameters used in the energy simulation used to demonstrate compliance with the NBC – 2023 (AE) Division B – 9.36.5. Performance Compliance path.

Direction of front elevation of house as modelled (N, NE, E, SE, S, SW, W, NW):

Reference Model		Proposed Model	
Air Tightness (ACH @ 50 Pa)		Air Tightness (ACH @ 50 Pa)	
Solar heat gain co-efficient (SHGC)		0.26	Solar heat gain co-efficient (SHGC)
Solar absorbance		0.4	Solar absorbance
Thermal Mass (Mj/m <sup>2</sup> °C):		0.06	Thermal Mass (Mj/m <sup>2</sup> °C):
FDWR(%)	17% 22% 40% Other:		FDWR (%) (fenestration and door area to gross wall area ratio)
Area of Fenestration – Reference		Areas of Fenestration - Proposed	
Front Elevation (m <sup>2</sup> )		Front Elevation (m <sup>2</sup> )	
Left Elevation (m <sup>2</sup> )		Left Elevation (m <sup>2</sup> )	
Right Elevation (m <sup>2</sup> )		Right Elevation (m <sup>2</sup> )	
Rear Elevation (m <sup>2</sup> )		Rear Elevation (m <sup>2</sup> )	
Total area of windows (m <sup>2</sup> )		Total area of windows (m <sup>2</sup> )	
Total area of opaque door sections (m <sup>2</sup> )		Total area of opaque door sections (m <sup>2</sup> )	
Total area of windows and doors (m <sup>2</sup> )		Total area of windows and doors (m <sup>2</sup> )	

**Note: If EnerGuide (performance w/ ERS) is used or ACH rate entered above for the proposed model above is less than 2.5 ACH a blower door test is required.**

## Performance Data Summary

Target Energy Use (Reference)	Calculated Energy Use (Proposed)

## Software

Title:	Version:	Software Adaptions made:
<ul style="list-style-type: none"><li>▪ The full modelling report generated by an ANSI/ASHRAE 140 compliant software must be included with the permit submission. Failure to submit the full report will result in rejection of your application.</li><li>▪ The RSI and U values used in the proposed energy modelling report must be indicated in Part A and match the RSI calculations provided with the permit.</li></ul>		

## Declaration

Please indicate the person responsible and the representing firm for preparing the calculations used to show compliance with 9.36.5		
Name:	Company:	Phone:
Email:	Address:	
I hereby certify that the calculations submitted were prepared in full accordance with Subsection 9.36.5. of the National Building Code - 2023 Alberta Edition and the operating procedures of the software.		

Nothing in this form, or the attached calculations, precludes the Safety Codes Officer from requiring the submission to be signed and sealed by an appropriate professional.

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