

## DESIGN VERIFICATION REPORT

### for Buildings Complying with the BCBC Section 9.36 Verification

Last updated December 1, 2014

- Instructions**
1. Effective December 19, 2014.
  2. To be completed by the Applicant.
  3. To be submitted at the time of Building Permit application, accompanied with supporting documentation.

**To: Manager of Inspections, Community Development Department, City of North Vancouver**

I, \_\_\_\_\_, am the Applicant for the below-mentioned project and have coordinated the design to substantially comply with the requirements of Section 9.36 of the 2012 BC Building Code, based on pursuing the Energy Regulation indicated in the Project Details below.

### PROJECT DETAILS

Project Address: \_\_\_\_\_ Building Permit #: \_\_\_\_\_

- BCBC Compliance Pathway  
(check one)
- 1. Prescriptive: 9.36.2 to 9.36.4 (COMPLETE SECTION A)
  - 2. Prescriptive + Trade-offs: 9.36.2 to 9.36.4 (COMPLETE SECTION A + B)
  - 3. Performance: 9.36.5 (COMPLETE SECTION A + C)
  - 4. Prescriptive: NECB-2011 Part 3-7 (COMPLETE SECTION A)
  - 5. Prescriptive + Trade-offs: NECB-2011 (COMPLETE SECTION A + B)
  - 6. Performance: NECB-2011 Part 8 (COMPLETE SECTION A + C)
- City of North Vancouver  
Energy Efficiency Commitment
- Zoning Bylaw, Rezoning, and/or DP Commitment (COMPLETE SECTION A + C)
- Minimum EnerGuide Rating: \_\_\_\_\_

### SECTION A: DRAWING SUBMISSION REQUIREMENTS

- 9.36 Compliance (Pathways 1 - 6)
  - Envelope section drawing(s) indicate the *Effective Thermal Resistance (RSI) of Assembly* for all Exterior Opaque Building Assemblies. Note each Assembly as either *“Meets Minimum Prescriptive Standard”* or *“Exceeds Minimum Prescriptive Standard”* or *“Does Not Meet Minimum Prescriptive Standard”* found in Tables 9.36.2.6.A./B. and Table 9.36.2.8.A/B.
  - Window section drawing(s) indicate the *Overall Thermal Transmittance (U-Value)* for all Fenestration, Doors and Skylights. Note each as either *“Meets Minimum Prescriptive Standard”* or *“Exceeds Minimum Prescriptive Standard”* or *“Does Not Meet Minimum Prescriptive Standard”* found in Tables 9.36.2.7.A./B./C.
  - Drawing(s) indicate the *Performance Rating* and *Energy Source* for all Space-heating, Space-cooling and Service Hot Water Systems. Prescriptive requirements are found in Tables 9.36.3.10. and Table 9.36.4.2.
- 9.36 Compliance (Pathway 3)
  - Drawing(s) indicate the corresponding Areas (in m<sup>2</sup>) of each Wall, Window and Door Assembly type, the Solar Heat Gain Coefficient (SHGC) of each Window, and the Ratio of total Vertical Fenestration and Door Area to Gross Wall Area.
- NECB-2011 Compliance (Pathways 4 - 6)
  - Drawing(s) indicate requirements as per Part 2 of the NECB-2011

**SECTION B: PRESCRIPTIVE + SIMPLE TRADE-OFF**

- 9.36.2.11 Compliance:  9.36 Trade-off completed and attached (example below)  
 NECB-2011 Compliance:  NECB-2011 Trade-off documentation attached

ABOVE-GROUND WALLS AND JOIST TYPE ROOFS		REFERENCE VALUES		PROPOSED VALUES		
Assembly name	A (Area in m <sup>2</sup> )	R <sub>R</sub> (Effective RSI)	A + R <sub>R</sub>	R <sub>P</sub> (Effective RSI)	A + R <sub>P</sub>	
1 Attic - R1	200	8.66	23.09	9.23	21.67	
2 Exterior Wall - W1	40	3.27	12.23	2.93	13.65	
3						
4						
DOES TRADE-OFF COMPLY?		Yes	TOTAL	35.33	TOTAL	35.32

OTHER ABOVE-GROUND OPAQUE ASSEMBLIES		REFERENCE VALUES		PROPOSED VALUES		
Assembly name	A (Area in m <sup>2</sup> )	R <sub>R</sub> (Effective RSI)	A + R <sub>R</sub>	R <sub>P</sub> (Effective RSI)	A + R <sub>P</sub>	
1 Attic - R1	200	8.66	23.09	9.23	21.67	
2 Exterior Wall - W1	40	3.27	12.23	2.93	13.65	
3						
4						
DOES TRADE-OFF COMPLY?		Yes	TOTAL	35.33	TOTAL	35.32

\* Online Trade-off sheets can be found here:  
[Trade-off spreadsheet template](#)

**SECTION C: PERFORMANCE MODELLING**

- 9.36.5 Compliance:  House Performance Report Attached  
 NECB-2011 2.2.2.8 Compliance:  NECB-2011 Modelling Report Attached

**APPLICABLE TO ALL COMPLIANCE PATHWAYS**

*The undersigned has produced and/or reviewed the above-mentioned project with the Compliance Pathway indicated in the Project Details, created based on the project's design as provided by the Designer of Record. The undersigned has verified that the project complies with the Compliance Pathway, as detailed in Section 9.36 of the 2012 BC Building Code.*

Signature: \_\_\_\_\_  
 Name: \_\_\_\_\_ (please print) Date Signed: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 Company Name & Address: \_\_\_\_\_