



McGILL & ASSOCIATES ENGINEERING LTD.

Consulting Engineers

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April 27, 2016

Our Ref. 3265

Norse Log Homes Ltd.
P.O. Box 99
Lantzville, BC
V0R 2H0

Attention: John Dahl

Re: Norse Log Homes Energy Efficiency

Dear Sirs:

McGill & Associates Engineering Ltd. (MAEL) has reviewed the ICC 400 - Section 305 Thermal Envelope of Log Structures, and applied this information to the Energy Efficiency Requirements for Houses in British Columbia that can be found in the BCBC 2012. Our assessment is based on the following parameters:

- Zone 5 Climate Zone (Nanaimo – North Island);
- 10 – 11 inch diameter Douglas fir logs; and
- Required RSI value for exterior walls above ground for:
 - a) Houses with an HRV = 2.97; or
 - b) Houses without an HRV = 3.08.

The proposed structure will provide an effective RSI value of 3.08 for the exterior walls. The value is determined with a Structure-to-Cavity ratio to be 77% and R22 insulation placed within the cavities.

As such, the proposed log wall building assembly meets the Energy Efficiency Requirements of the BCBC2012.

If you have any further questions, concerns, or comments regarding our findings, please feel free to contact us at your convenience. We appreciate your continued business and look forward to our next projects.

Yours truly,

For McGill & Associates Engineering Ltd.



Brad West, P. Eng