



Upgrade Features

The following is a description of the upgrades that were completed by the builder.

Air Leakage and Ventilation

Air leakage has been tested at 1.94 ACH50 rather than a typical 4.5 for most builders. The Equivalent Leakage Area (picture all the cracks and crevices and leaks added up into one hole) is calculated to be 79 square inches.

The Ventilation system has been upgraded to a Heat Recovery Ventilator (Venmar HE 1.8) which quietly and automatically provides fresh air throughout the house and at the same time recovers up to 78% of the heat from the air being exhausted. Regular houses would have bathroom fans and kitchen range hoods which have to be manually turned on and off, have no heat recovery, and depressurize the house increasing the risk of soil gasses infiltrating the house.

Windows and Doors

Windows and Doors are EnergyStar rated windows with. Low E coatings, Argon Fill, and Warm Edge Spacers, rather than plain double glazed.

Basement Walls

Basement walls are insulated all the way to the floor instead of just 2' below grade.

Walls

Walls are upgraded to R24 Mineral Wool with R5 foam sheathing as well instead of just R20 batts.

Hot Water System

An Instantaneous Takagi T-K3 Water Heater with an Energy Factor (EF) or .83 replaces a typical water tank with standby losses and an EF of .58.

Ceilings

Hot 2000 Version 9.34c

Attic Spaces are upgraded to R50 from R40. Cathedral Ceilings are upgraded to R50 from R32.

Furnace

A 92% efficient Condensing Furnace with an electrically efficient blower replaces a typical 90% efficient furnace. Blower is powered by E.C.M. motor, runs much quieter on start-up using less energy.

Energy Rates

The energy costs shown below are based on your home's estimated energy use and the average cost of the fuels used in your home at the time of inspection (average rates may change as consumption changes; equipment rental costs not included).

	Electricity		Natural Gas		Oil		Propane		Total	
	kWh	\$	cu. m	\$	L	\$	L	\$	GJ	\$
Building Code Standard	9337	1268.04	3703	2260.53	0	0.00	0	0.00	172	3529
8 Johnston Street	9313	1265.37	2145	1405.21	0	0.00	0	0.00	113	2671
Savings	23	3	1558	855	0	0	0	0	58	858

Note: One gigajoule (GJ) is equal to the amount of energy that would be consumed by ten 100-Watt light bulbs over 12 days.

Notice to Homeowner

Your house was analysed using the a computer program developed by Natural Resources Canada. Natural Resources Canada makes no warranty, expressed or implied, with respect to the energy consumption figures, cost estimates or energy efficiency recommendations included in this assessment. Actual energy consumption costs depend on a host of factors beyond the control of the Department of Natural Resources. In no event will Natural Resources Canada nor its minister, officers, employees or agents have any obligations or liability arising from tort, or for loss of revenue or profit, or for indirect, special, incidental or consequential damages as a result of the homeowner's use of the assessment report.

Some of the assumptions within the computer program may, or may not, be applicable to your household. Where assumptions have been made, they are based on an average appliance usage rate.

The simple payback period calculation for upgrades provided in this report is based on energy savings for all of the upgrade options implemented together. The actual savings may vary depending on the method of implementation, year-to-year variations in weather, lifestyle, and future changes in energy costs. Savings are approximate only. Natural Resources Canada makes no promise or guarantee as to the actual savings you may realize.

The annual energy costs shown in this report may not match your actual billed amount for the period shown. The energy cost values exclude all applicable taxes, basic charges, miscellaneous account adjustments, credits, or late payment charges, and are based on an average per unit energy cost.