

HOMEOWNER INFORMATION SHEET

ENERGUIDE

Your EnerGuide* rating and this report are based on data collected and, where necessary, presumed, from your home evaluation. Rating calculations are made using standard operating conditions.



Rating: 75 gigajoules per year (GJ/year)

Heated floor area: 168.1 m² (1809.0 ft²)

Rated energy intensity: 0.45 GJ/m²/year

Evaluated by: AmeriSpec of Canada

File number: 227ND00410

Data collected: May 9, 2018

Year built: 1964

NRCan.gc.ca/myenerguide

HOW YOUR RATING IS CALCULATED:

| | |
|---|---------------------|
| I. Rated annual energy consumption | 75 GJ/year |
| II. Minus renewable energy contribution | - 0 GJ/year |
| Equals your EnerGuide rating | = 75 GJ/year |

I. Your rated annual energy consumption is the total amount of energy your house would use in a year based on the EnerGuide Rating System standard operating conditions. For your house, this includes 13.31 GJ of passive solar gain.

| Energy Sources | Rated Consumption (GJ/year) | Equivalent Units (per year) | Greenhouse Gas Emissions (tonnes/year) |
|----------------|-----------------------------|-----------------------------|--|
| Electricity | 75 | 20931.5 kWh | 17.1 |
| Total | 75 | | 17.1 |

II. On-site renewable power generation systems can offset some or even all of your home's energy consumption. Renewable energy contributions are factored differently for your rating and your greenhouse gas emissions calculations.

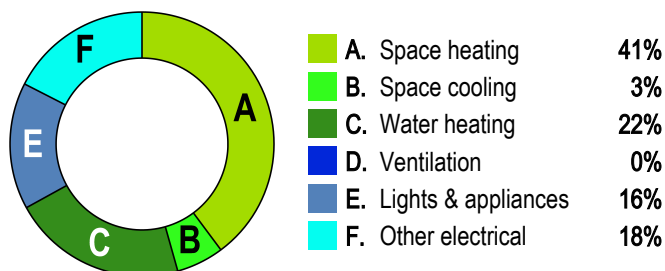
| On-Site Renewable Energy | Estimated Contribution (GJ/year) | Equivalent Units (per year) | Offset Greenhouse Gas Emissions (tonnes/year) |
|--------------------------|----------------------------------|-----------------------------|---|
| Electricity | 0 | 0 kWh | 0.0 |
| Solar water heating | 0 | 0 | 0.0 |
| Total | 0 | | 0.0 |

YOUR RATED GREENHOUSE GAS EMISSIONS CALCULATION:

| | |
|---|---------------------------|
| Total greenhouse gas emissions | 17.1 tonnes/year |
| Minus emissions offset by on-site renewables | - 0.0 tonnes/year |
| Equals your rated greenhouse gas emissions | = 17.1 tonnes/year |

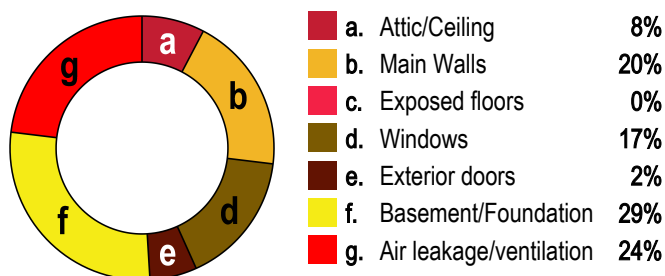
HOW YOUR RATED ENERGY IS USED:

The chart below represents the breakdown of rated annual energy consumption in your home under standard operating conditions. You can use these figures as a guide to help identify where you can lower home energy costs through proper home maintenance, efficient home operation, energy efficiency renovations or equipment replacement.



WHERE YOUR HOME LOSES HEAT:

Houses lose heat through their exterior shell, or building envelope. The chart below shows where and how your home loses heat. The quality and upkeep of your home can have a major impact on the amount of energy your heating and cooling systems use annually.



*EnerGuide is an official mark of Natural Resources Canada. Refer to the glossary section for an explanation of relevant terms.

HOUSE DETAILS

BUILDING ENVELOPE

Attic/Ceiling

| TYPE | INSULATION VALUE | | AREA m ² (ft ²) |
|---------------------------|--------------------|----------------------|---|
| | Nominal RSI (R) | Effective RSI (R) | |
| Ceiling01: Attic/gable | 3.40 (19.3) | 3.49 (19.8) | 88.07 (948) |

Main Walls

| TYPE | INSULATION VALUE | | AREA m ² (ft ²) |
|---------------------------------|--------------------|----------------------|---|
| | Nominal RSI (R) | Effective RSI (R) | |
| 38x89 mm (2x4 in) Wood frame | 1.70 (9.6) | 1.66 (9.4) | 14.86 (160) |
| 38x89 mm (2x4 in) Wood frame | 1.70 (9.6) | 1.95 (11.1) | 88.44 (952) |

Exposed Floors

| INSULATION VALUE | | AREA m ² (ft ²) |
|--------------------|----------------------|---|
| Nominal RSI (R) | Effective RSI (R) | |
| 3.52 (20.0) | 4.00 (22.7) | 1.86 (20) |

Windows

| # | TYPE | U-factor W/m ² • °C (Btu/h • ft ² • °F) | RSI (R) |
|---|---|---|------------|
| 1 | Double/double with 1 coat, clear, 13 mm air, metal, picture, aluminum | 6.4 (1.13) | 0.16 (0.9) |
| 1 | Double/double with 1 coat, clear, 13 mm air, metal, picture, aluminum | 4.11 (0.72) | 0.24 (1.4) |
| 1 | Double/double with 1 coat, clear, 9 mm air, metal, hinged, wood | 3.07 (0.54) | 0.33 (1.9) |
| 1 | Double/double with 1 coat, clear, 9 mm air, metal, hinged, vinyl | 3.06 (0.54) | 0.33 (1.9) |
| 1 | Double/double with 1 coat, low-e .20 (hard1), 9 mm argon, insulating, hinged, vinyl | 2.26 (0.4) | 0.44 (2.5) |
| 2 | Double/double with 1 coat, low-e .20 (hard1), 9 mm argon, insulating, hinged, vinyl | 2.2 (0.39) | 0.45 (2.6) |
| 1 | Double/double with 1 coat, low-e .20 (hard1), 13 mm argon, insulating, hinged, vinyl | 2.11 (0.37) | 0.47 (2.7) |
| 1 | Double/double with 1 coat, low-e .20 (hard1), 9 mm argon, insulating, hinged, vinyl | 2.04 (0.36) | 0.49 (2.8) |
| 2 | Double/double with 1 coat, low-e .20 (hard1), 13 mm argon, insulating, hinged, vinyl | 2 (0.35) | 0.50 (2.8) |
| 3 | Double/double with 1 coat, low-e .20 (hard1), 13 mm argon, insulating, picture, vinyl | 1.95 (0.34) | 0.51 (2.9) |

Windows (Continued)

| # | TYPE | U-factor W/m ² • °C (Btu/h • ft ² • °F) | RSI (R) |
|---|--|---|------------|
| 1 | Double/double with 1 coat, low-e .20 (hard1), 13 mm argon, insulating, hinged, vinyl | 1.92 (0.34) | 0.52 (3.0) |
| Total window area: 16.56 m ² (178.26 ft ²) | | | |

Exterior doors

| # | TYPE | U-factor W/m ² • °C (Btu/h • ft ² • °F) | RSI (R) |
|---|---|---|------------|
| 1 | Fibreglass medium density spray foam core | 1.02 (0.18) | 0.98 (5.6) |
| 2 | Steel medium density spray foam core | 0.88 (0.15) | 1.14 (6.5) |
| Total door area: 8.25 m ² (88.83 ft ²) | | | |

Basement/Foundation

| TYPE | INSULATION VALUE | | AREA m ² (ft ²) |
|---|--------------------|----------------------|---|
| | Nominal RSI (R) | Effective RSI (R) | |
| Foundation - 1 Basement header | 2.11 (12.0) | 2.57 (14.6) | 9.25 (99.61) |
| Foundation - 1 concrete walls: interior | 2.11 (12.0) | 1.75 (10.0) | 91.98 (990.02) |
| Foundation - 1 slab | N/A | N/A | 79.99 (861) |

Airtightness

| | |
|--------------------------------|--|
| Air leakage rate at 50 pascals | 4.99 air changes / hour |
| Equivalent leakage area | 992.08 cm ² (153.77 in ²) |

MECHANICAL SYSTEMS

Space heating

| TYPE | OUTPUT SIZE | EFFICIENCY |
|---|---------------------------|-------------------|
| Electric furnace | 10.5 kW 35827.48 BTU/h | 100% Steady State |
| Central single package air-source heat pump | 6.39 kW 21799.83 BTU/h | 7.82HSPF |
| | 2 kW 6824.28 BTU/h | 30% Steady State |
| Wood fireplace insert | 2 kW 6824.28 BTU/h | 30% Steady State |
| Design heating load: 9.4 kW | | |

Space cooling

| TYPE | OUTPUT SIZE | EFFICIENCY |
|---|---------------------------|------------|
| Central single package air-source heat pump | 6.39 kW 21799.83 BTU/h | 16 SEER |
| Design cooling load: 3.83 kW | | |

HOUSE DETAILS

Water heating

| TYPE | TANK VOLUME | EFFICIENCY |
|-----------------------|------------------|------------|
| Electric storage tank | 189L (50 USG) | 0.87 EF |

Whole-home Ventilation

| TYPE | AIR FLOW RATE | EFFICIENCY |
|------|---------------|------------|
| N/A | N/A | N/A |

HEATED FLOOR AREA

| | |
|------------------|--|
| Above-grade area | 88.1 m ² (948 ft ²) |
| Below-grade area | 80 m ² (861 ft ²) |

GLOSSARY

Airtightness

describes how well the building envelope resists air leakage and is measured in air changes per hour at 50 pascals (ACH@50 Pa). The fewer air changes per hour, the more airtight the building envelope is. Equivalent leakage area is another way of describing the airtightness of the building envelope. It represents the size of a single hole in your building envelope if all the individual air leakage holes or gaps were added together. The smaller the equivalent leakage area, the less energy you will need to control the temperature of your home (but you will still need to ensure that you have adequate ventilation).

Design heating/cooling loads

provide an estimate of the capacity of the heating and cooling equipment needed to maintain your home at 22°C in the winter and 24°C in the summer and are provided for guidance only. Before having a new heating/cooling system installed, your heating/cooling contractor should perform an independent, detailed heat loss/heat gain calculation on your home in order to select the appropriate equipment.

Gigajoule (GJ)

is a unit of energy. It can be used as a measure of any type of energy that is consumed or produced in your home. Specifically, one GJ is the equivalent of 278 kWh of electricity, 27 m³ of natural gas, 26 L of oil, 39 L of propane, or 947 817 BTUs. One GJ is roughly equal to the energy from two standard barbecue propane tanks or 30 litres of gas in a car's gas tank.

Greenhouse gas emissions

are the amounts of carbon dioxide, methane and nitrous oxide that are produced directly, by burning fossil and solid fuels, or indirectly, through the production of electricity. Greenhouse gas emissions are expressed in carbon dioxide equivalent units. Greenhouse gas emissions are calculated by multiplying the quantity of fuel or electricity used in your home by the emission factors for the particular energy source. Electricity factors vary by province because there are different emissions associated with each province's method of producing electricity. One tonne of greenhouse gas emissions is equivalent to the CO₂ emissions produced by driving an average efficiency mid-size vehicle from Toronto to Vancouver.

Heated floor area

represents the total useable area of your home that is heated, measured at the interior of the outer walls or of the walls attached to other buildings.

Insulation values

Are expressed in RSI (m² • °C/W) or R-value (h • ft² • °F/Btu) and represent the resistance to the flow of heat of a given thickness of insulation or construction assembly. The higher the RSI-value (R-value), the better the performance. The nominal value represents the resistance to the flow of heat of just the insulation while the effective value represents the resistance to the flow of heat of the entire wall, ceiling or floor assembly considering the structure, insulation, framing, sheathing and all finishing.

On-site renewable energy contributions

are subtracted from the rated annual energy consumption to

calculate the EnerGuide rating. For the calculation of the rated greenhouse gas emissions, on-site electricity generation only offsets emissions associated with electricity consumption, whereas a solar water heater reduces the emissions that would have been produced from the source of energy used to heat water.

Passive solar gain

is the heat from the sun that influences your home's heating and cooling requirements. Generally, south facing windows provide more solar gain.

Rated Energy Intensity

is calculated by dividing your rated annual energy consumption by your home's heated floor area. It allows you to compare the annual energy use of homes of different sizes on a "per square metre" basis.

Standard operating conditions

have been used to calculate your home's EnerGuide Rating. The rating assumes a standard number of occupants and energy use patterns. This allows for comparison of energy use across houses so that the house is rated and not the operation of the house by the occupants. The values are:

- Two adults and one child, at home 50% of the time;
- Hot water use of 178 - 199 L/day, variable depending on incoming ground water temperature;
- Thermostat settings of 21°C for daytime heating, 18°C for nighttime heating and 25°C for cooling; and
- Lighting, appliance and other electrical loads of 19.5 kWh/day.

U-factor

measures heat transferred through windows and doors, expressed in W/m² • °C (BTU/h • ft² • °F). The lower the U-factor, the better the energy efficiency of a window. The inverse of U-factor (1/U-factor) identifies the resistance to the flow of heat, expressed in RSI. The higher the RSI, the better the window is at resisting heat loss. You can use these values to choose more energy efficient windows.

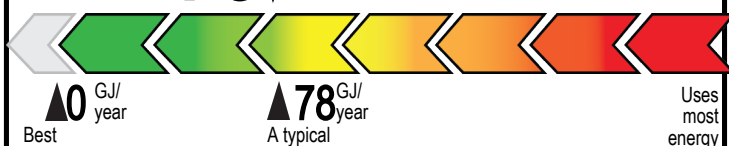
For more details and examples of the above terms, please visit NRCan.gc.ca/myenerguide.

263 Astral Drive,
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Data Collected: May 9, 2018
File Number: **227ND00410**
Home evaluated by: AmeriSpec of Canada

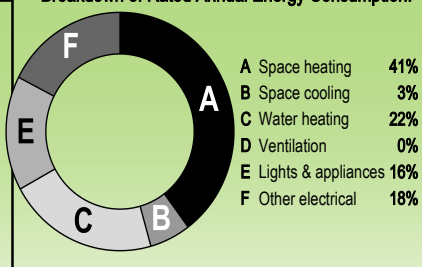
75 This House
GJ/year



One gigajoule (GJ) equals the energy from two BBQ propane tanks

| Rated Annual Energy Consumption | 75 GJ |
|--|----------------|
| • Electricity | 75 |
| On-site renewable energy contributions | - 0 GJ |
| • Electricity | 0 |
| • Solar water heating | 0 |
| EnerGuide Rating: | = 75 GJ |

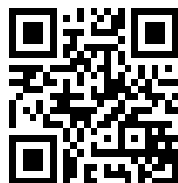
Breakdown of Rated Annual Energy Consumption:



Rated Energy Intensity: **0.45 GJ/m²/year**

Rated Greenhouse Gas Emissions: **17.1 tonnes/year**

Figures may not add up due to rounding.



The energy consumption indicated on your utility bills may be higher or lower than your EnerGuide rating. This is because standard assumptions have been made regarding how many people live in your house and how the home is operated. Your rating is based on the condition of your house on the day it was evaluated.

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NEXT STEPS

If you have had a Renovation Upgrade Service, refer to your report for the roadmap to making your home more energy efficient. If you have not yet had a Renovation Upgrade Service, why not contact your service organization to learn what you can do to save on energy costs, reduce greenhouse gas emissions and improve home comfort?

Everyone uses energy in their house differently. This report was developed using standard operating conditions as explained in the glossary. Therefore, your EnerGuide rating will not match your utility bills.

UPGRADE CONSIDERATIONS

Before undertaking upgrades or renovations, find out about appropriate products and installation techniques, and ensure that all renovations meet local building codes and by-laws. Natural Resources Canada does not endorse the services of any contractor, nor any specific product, and accepts no liability in the selection of materials, products, contractors nor performance of workmanship.

Where your energy advisor has identified a potential health or safety concern such as insufficient outdoor air, risk of combustion fumes entering your house or risk of exposure to asbestos, they have endeavoured to provide a warning in this report. However, energy advisors are not required to have expertise in health and safety matters, and homeowners are solely responsible for consulting a qualified professional to determine potential hazards before undertaking any upgrades or renovations.

This is an updated EnerGuide rating system. For an explanation of the changes from the previous system, please see NRCan.gc.ca/myenerguide.

Visit us today at:

NRCan.gc.ca/myenerguide