



The Home 360 program provides the estimated energy performance of your home. This is done through energy modeling using Natural Resources Canada energy modeling software HOT2000, applying Ontario Building Code (SB12) performance modeling protocols and standards. DIMANOR Homes has voluntarily chosen to participate in this program. In so doing, they are going above and beyond the requirement of the Ontario Building Code by including this 3rd party assessment by Building Knowledge Canada. The team at DIMANOR Homes firmly believes that air tightness testing is an important quality assurance metric in determining both the energy efficiency performance of the home and the overall quality and durability of construction.

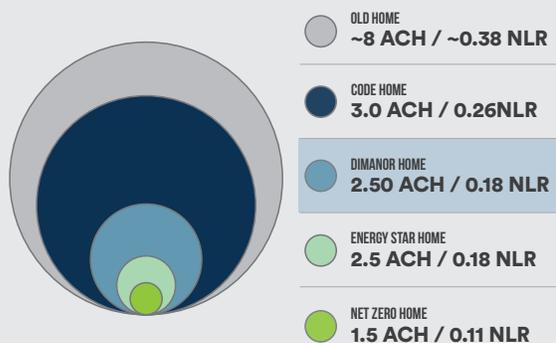


WHAT DOES A HOME 360 HOME INCLUDE?

3rd Party On-Site Assessment:

- ✓ Enhanced on-site quality assurance
- ✓ 3rd party performance verification of air tightness
- ✓ Professional Registered Energy Advisor consultation

AIR TIGHTNESS-DETACHED HOMES:

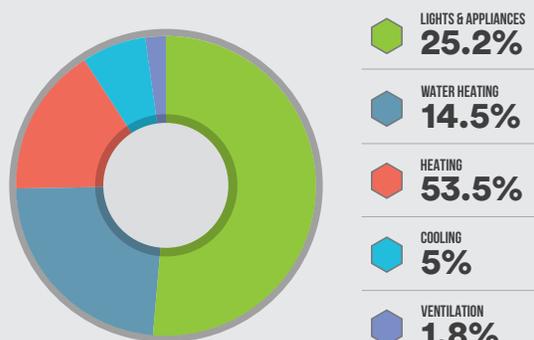


AIR TIGHTNESS TESTING:

Air tightness results show the rate at which air leaks out of the home and is measured by ACH (Air Changes per Hour) and NLR (Normalized Air Leakage Rate). The lower the number the better! Benefits of homes that are well sealed include:

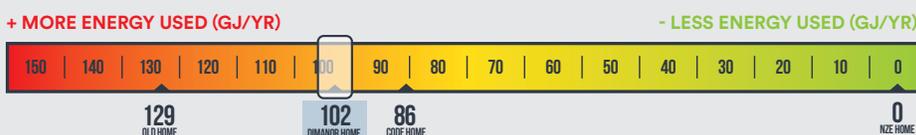
- ✓ Increased energy efficiency
- ✓ Improved comfort
- ✓ Better control of indoor air quality
- ✓ More durable construction

WHERE YOUR ENERGY GOES (BASED ON THE ONYX MODEL):



ENERGY CONSUMPTION ESTIMATION (GIGAJoule UNIT OF ENERGY):

The gigajoule scale shows how much energy (natural gas and electricity) your home is estimated to use based on a set of standardized occupant loads. This scale gives you the benefit of knowing where the energy you use in your home is going, helping you make informed choices around your energy usage.





FAQs



Why is working with a building science specialist and Registered Energy Advisor important?

Designing and constructing homes that provide enhanced comfort, durability and indoor air quality while using less energy can be a complex endeavour. As homes become more efficient, new technologies and construction materials are applied. Having a building science professional and Registered Energy Advisor as part of the DIMANOR team helps to ensure the right components and materials are chosen for your home, as well as a 3rd party set of eyes and a level of rigour that sets DIMANOR Homes apart.

Why is air tightness important?

A home generally loses 30% of its energy (heating and cooling) from air leakage through unintended cracks and holes in the envelope (walls, floors and ceilings that separate the indoor air from the outdoor air) of the home. In the fall, winter, and spring when warm air escapes through these hidden holes and cracks, condensation or water can form inside the wall, roof or building enclosure which can lead to deterioration and rot. Homes that are leaky (not air tight) are drafty and uncomfortable. Temperatures and relative humidity are more difficult to control, the furnace and air conditioner work harder, and the home requires more energy to heat and cool. A house should 'breathe' but NOT through unintended cracks and holes. A quality built high performance home is constructed with a well-sealed envelope and properly designed filtered fresh air ventilation machine called a Heat Recovery Ventilators (HRV), or Enthalpy Recovery Ventilators (ERV). These provide the fresh filtered air your family needs 24/7, 365 days a year.

Is an air tightness test required?

The current Ontario Building Code does not require an air tightness test even though best practice would indicate an air test should be done. The DIMANOR Homes team firmly believes that air tightness testing is an important quality assurance metric in determining the energy efficiency performance of your home and the overall quality and durability of construction, and is why they have included this test for your home.

What is a gigajoule?

A gigajoule is a unit of energy. The British Thermal Unit (BTU), a unit of energy for natural gas, and the Kilowatt (kWh), a unit of energy for electricity, can be converted to a singular metric called the gigajoule (GJ). This allows you to see the total estimated energy consumption of your home on an annual basis, based on modeling and standardized operating conditions.

The gigajoule consumption shown in your home's profile sheet is based on standardized occupant loads, therefore, there may be some variation depending on personal lifestyles. The largest electrical load, "Lights and Appliances", also includes all plug-in items, and some special hardwired items like hot tubs. This category is often called "occupant load" to reference its connection with the occupant lifestyle energy needs.

Do all homes get an estimated annual energy consumption (gigajoule) result?

No. Only homes that have been modeled using approved energy modeling software for homes receive a gigajoule result. Building Knowledge Canada uses Natural Resource Canada's HOT2000 energy modeling software, applying Ontario Building Code (SB12) performance modeling protocols and standards when modeling your home. Although energy modeling is not required by the Ontario Building Code, DIMANOR Homes has chosen to go above and beyond the building code to include the estimated energy consumption of your home, so that you can have the benefit of knowing where the energy you use in your home is going, and make informed choices around your energy usage.