

SKYFALL

A NET ZERO, STEP CODE 5, ZERO EMISSIONS HOME



Home OF THE FUTURE

MORE THAN AN 'ENERGY EFFICIENT HOME'

Our Home Of The Future focuses on meeting the future BC building code of 2032. The lessons learned and construction techniques used on SkyFall will be implemented in future communities built by DHD. Beyond logistics, Net Zero homes offer an enhanced living experience. Imagine, no heating or electricity bills, and the knowledge that you're doing your part for the environment – every single day.

WHAT IS NET ZERO?

A Net Zero home is 80% more energy efficient than a home built to conventional standards.

Equipped with solar panels, SkyFall generates as much renewable energy as it consumes, feeding electricity back into the grid. And with no natural gas, it produces zero emissions.

THE BC ENERGY STEP CODE

The BC Energy Step Code is a provincial policy that incrementally moves building standards towards healthier, more efficient and comfortable homes.

By 2032, all new homes in British Columbia must meet Step Code 5, the fifth and final step toward sustainable home building, and be Net Zero Ready.

WHY BUILD SKYFALL NOW?

Our mission from the start of the design phase was to build a home of the future; a home that exceeds future energy-based building standards well before they are enforced.

As the world struggles with climate change, leaders emerge in their respective industries to combat its dramatic and threatening impacts.

In effort to reduce the toll on our environment, and help preserve vital resources for future generations, DHD aims to do its part – building quality of life.



DIAMOND HEAD
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BUILDING QUALITY OF LIFE

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HOW ARE ENERGY EFFICIENT HOMES DESIGNED?

Expert energy advisors model and predict the amount of energy a home will consume and therefore how much renewable energy it will need to produce in order to be Net Zero. An energy model focuses on the following interdependent factors:

- **Air Tightness** – Limiting the amount of outside air that passes through the exterior walls and the amount of inside air that escapes.
- **Thermal Protection** – Increasing the amount of wall and ceiling insulation, to add a thick blanket around the house.
- **Mechanical Systems** – In an air tight home with stable temperatures, it's important to have a mechanical system that can recycle the air with fresh, temperate air, while using a minimal amount of energy to operate.
- **Renewable Power Potential** – The amount of potential for renewable energy dictates what the target values should be for a home's design.

SkyFall uses innovative construction techniques and products such as structural insulated panels, insulated concrete forms, and solar panels to improve efficiency and enhance building performance, all while reducing the impact on the environment.

With SkyFall, DHD has raised the bar by achieving a Net Zero, Step Code 5, Zero Emissions home. SkyFall uses the most ecological, environmentally-friendly building products and techniques. It is recognized as "Built Green Platinum," Built Green's highest standard in sustainable building. By ensuring a healthy indoor environment for you, we ensure a healthier outdoor environment for everyone.

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