

GO GREEN with New Construction

TIPS AND TRICKS TO BUILD GREEN

New construction provides a myriad of opportunities to build green. Beyond providing better indoor air quality and more energy efficiency homes, you have the opportunity to help the environment!

1 SITE ORIENTATION

The location of a home relative to the sun.



LONG-TERM BENEFITS

DECREASED UTILITY COSTS

By capturing the most natural light possible, you can drastically reduce heating and cooling costs. Here in the Pacific Northwest, this is especially important half the year,

INCREASED MARKETABILITY

When it comes time to sell your home, ideal site orientation can increase the resale value of your property as well as increase the lifestyle comfort of the home.

DID YOU KNOW?

South-facing homes are *ideal* for capturing maximum sunlight, however, you can build a well-insulated, high performance home *no matter the orientation*.

2 BUILDING ENVELOPE

The physical barrier between exterior and interior environment.



The building envelope requires the largest quantity of materials during the construction of a new home. With new construction, green building techniques such as advanced framing and deep insulation, can help create the most energy efficient barrier to the outside.

ADVANCED FRAMING

A system of framing technique designed to optimize material usage and increase energy efficiency. Advanced framing allows less wood to be used and therefore leaves more cavity space available for additional insulation.

WHAT IS TIGHT ENVELOPE?

A tight envelope refers to how tightly sealed a home is. Contrary to those who believe their home should *breathe*, a tighter envelope is beneficial as it helps keep the elements out, heat in, prevents condensation, and leads to less energy loss.

3 INTERIOR SYSTEMS

The ceilings, walls, ventilation, all interior aspects of home construction.



With advanced framing and deep insulation, if you build a home with a tight envelope, it is important to have an adequate ventilation system to maintain indoor air quality and moisture control. Additionally, it is likely that between natural body heat and movement, an additional heat source may prove unnecessary as the space will maintain the temperatures.

HEAT RECOVERY VENTILATION (HRV)

This system can aid ventilation by bringing fresh air into a building, moving stale air out, and in turn, improving climate control. The heat exchange core, comprised of two fans, takes the heat from the air leaving the house and transfers it to the fresh air coming into the house so it matches the temperature the climate control is set to.

PRODUCT SOURCING

Local materials are not only better suited to the region's climate, they support local economies!

FAST FACTS

The construction of a **2,000 square foot** home generates roughly **8,000 pounds of waste**.

Ensure your homebuilding team has a waste management plan in place prior to breaking ground!



40%

Total of the nation's waste stemming from construction sites

Sources: Environmental Protection Agency and National Association of Home Builders

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