Keiser HOMES

HALLMARK HOMES CORP.

The Way Home Building Should Be

KAPLAN THOMPSON ARCHITECTS

Find A Better Way Home

BEAUTIFUL SUSTAINABLE ATTAINABLE

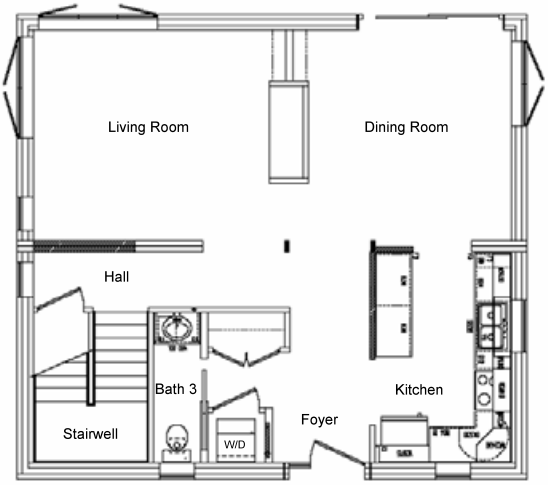
This two-story, Colonial home, presented here by Hallmark Homes, was designed by Kaplan Thompson Architects in close collaboration with Keiser Homes. The result of this partnership is a home that generates its own renewable energy to heat and power the home. Referred to as “Net Zero”, the concept is that a combination of thoughtful design, extensive insulation, intelligent choices of mechanical systems and renewable energy generation results in a home that is heated, cooled and powered by the home’s own systems.

This cozy home is 1,680 square feet in size, with a layout that maximizes the space available. A generous amount of windows provides a more expansive feel to the home, while also allowing for significant passive solar heating. The open space designed around the kitchen, dining room and living room provides a freedom of movement and a flexibility for future interior design unmatched in such a footprint. The second floor features three bedrooms and two full baths, including a master suite. Thoughtful additions, such as built-in cabinets and full-lite pocket doors, combined with the attention to detail that Keiser Homes is known for, gives this home a warmth that belies the technology and science incorporated into its design and construction.

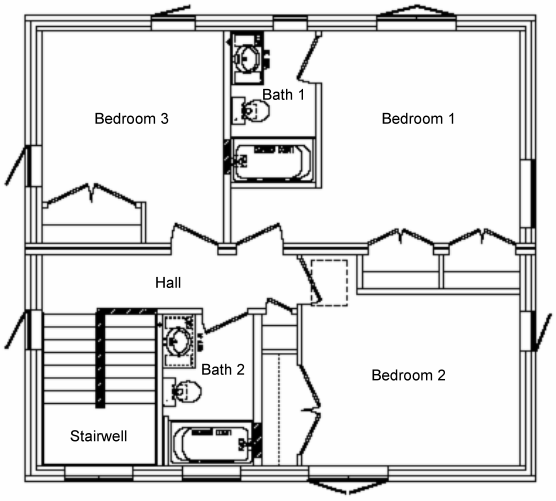
To achieve net zero performance, this home has 12” exterior walls, with off-set 2x4 studs, 16” on-center. When insulated with dense-pack cellulose, this provides an R-40 wall, with minimal thermal breaks. The windows are designed to provide for exemplary insulating capability, while the south facing windows are chosen to allow for passive thermal gain. A solar thermal hot water system as well as photovoltaic solar panels are set on the roof and provide hot water and electricity, for both heating and powering the home. Due to the super insulation of the home, the minimal heat required to warm the home, even during the coldest Maine winters allows for the use of a mini-split forced air heat system, which will also provide air conditioning during the summer months.

Every aspect of this home has been designed to provide the highest level of comfort, while also allowing you to reap the benefits of today’s technology to secure your energy future. The close collaboration by Kaplan Thompson, Keiser Homes and its builders, including Hallmark Homes, results in the most affordable and livable net zero home available. A home that provides all of the things a home should. A home that provides protection from the elements, while using some of those very elements to provide protection from rising and uncertain energy prices.

FIRST FLOOR



SECOND FLOOR



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Modular Zero Home Features

1) R-40 Exterior Walls
Double 2x4 wall studs, offset with 4.25" gap, 2x12 top and bottom plates; dense pack cellulose insulation

2) R-60 Ceiling Insulation
17" (+/-) of cellulose insulation

3) High Efficiency Windows
Locally produced Paradigm windows, triple glaze, Krypton/Argon fill except at Southern exposure where windows are designed for solar heat gain

4) Photovoltaic Solar Array
Canadian Solar CS5P-240 panels, 26 total, 5.76 kw total capacity

5) Solar Thermal Water Heater
Velux solar water heating system, 2 U12 flat panels, 80 gallon tank with integral electric back-up

6) Split System Heat Pump
Mitsubishi MXZ-3A30NA, 3-head split system, provides heating and air conditioning

7) Heat Recovery Ventilation
Guardian GSHH3K HRV system, provides whole house ventilation

Other features include low flow plumbing fixtures, solar awnings at windows and low VOC paints, adhesives and sealants used throughout the home.

South Elevation

North Elevation

East Elevation

West Elevation

Keiser Homes Green Building Disclaimer

Please Note:

Sustained green building (i.e. Energy Star™, LEED™, etc.) is a matter of responsible home care and continued home maintenance. Climatic conditions, economic volatility, and private and public health issues may also impact results. Beneficial effects may vary or not be achieved. Any comparisons between green construction and standard construction are illustrative only and actual results/performance may not achieve the benefits shown, or any benefit at all. Prospective buyers should be aware that projected health, energy, economic and environmental benefits espoused herein or otherwise are aspirational only, and should not be construed as providing any Keiser Industries, Inc. representations or guarantees of future energy savings, positive health attributes, environmental advantages, higher resale value or other beneficial qualities associated with green construction, or extending any additional Builder warranties, whether express or implied, beyond those expressly provided under the contract of sale.