



# WESTVILLE COMMONS

## GREEN LIVING ENERGY STAR

### YOUR ENERGY STAR QUALIFIED HOME FEATURES THE FOLLOWING:

- Effective Insulation
- High-Performance Windows
- Air-Tight Construction and Ducts
- Efficient Heating and Cooling Equipment
- Efficient Products
- Third-Party Verification

Energy star® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

Results are already adding up: Americans, with the help of Energy Star, saved enough energy in 2008 alone to avoid greenhouse gas emissions equivalent to those from 29 million cars – all while saving \$19 billion on their utility bills.

### LEED For Homes

LEED for Homes is a nationally-accepted benchmark which measures the overall performance of a home in eight categories:

**Innovation & Design:** Special design methods that contribute to the sustainability of the home.

**Location & Linkages:** Location of the home in socially and environmentally responsible ways in relation to the community, such as proximity to transportation, shopping, and open spaces.

**Sustainable Sites:** Use of the entire property so as to minimize the project's impact on the site.

**Water Efficiency:** Use of indoor and outdoor water efficiency practices.

**Energy & Atmosphere:** Emphasis on energy efficiency, particularly in the building envelope and heating and cooling design.

**Materials & Resources:** Efficient selection and use of environmentally preferable materials, and minimization of waste during construction.

**Indoor Environmental Quality:** Improvement of indoor air quality by reducing the creation of and exposure to pollutants.

**Awareness & Education:** Both residents and the building manager will become familiar with the operation and maintenance of the green features of a LEED home.

### Passive House

Passive building comprises a set of design principles used to attain a quantifiable and rigorous level of energy efficiency within a specific quantifiable comfort level. "Maximize your gains, minimize your losses" summarizes the approach. To that end, a passive building is designed and built in accordance with these five building-science principles:

- Employs continuous insulation throughout its entire envelope without any thermal bridging.
- The building envelope is extremely airtight, preventing infiltration of outside air and loss of conditioned air.
- Employs high-performance windows (typically triple-paned) and doors.
- Uses some form of balanced heat- and moisture-recovery ventilation and a minimal space conditioning system.
- Solar gain is managed to exploit the sun's energy for heating purposes in the heating season and to minimize overheating during the cooling season.

Passive building principles offer the best path to Net Zero and Net Positive buildings by minimizing the load that renewables are required to provide.



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COMMONS

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