



Susquehanna Valley Builders (susquehannavalleymodular.com)

General Information

Location	Mechanicsburg, PA
Layout	1 story, 4 bedrooms, 3.5 baths
HERS® Index Score	48
Estimated Monthly Bill	\$295
Estimated First-Year Savings	\$1,214 (compared to Code Home)

Key features:

- 1. Solar ready:** The Zero Energy Ready Home certification means that this house is “ready” for solar. It meets the required amount of roof space that receives direct sunlight without obstructions and offers plenty of southeast and southwest facing roof space for mounting solar panels. There's also a conduit that runs from the attic to the electrical panel in the basement, where there is ample space for mounting an approved smart inverter or a backup battery.
- 2. Superior wall foundation:** High-density waterproof concrete forms the backbone for this next-generation foundation system. The walls come insulated at an R12 level and are craned into place. The entire foundation was set in two days.
- 3. Continuous insulation:** Most houses have only cavity insulation (insulation between the wall studs or the attic joists). This insulation is great when installed well, but it doesn't stop heat loss or gain through the framing. This house features upgraded ZIP System R-Sheathing throughout the entire structure. It provides continuous insulation, covering all the wood framing. The green part is the product's water-resistant layer.

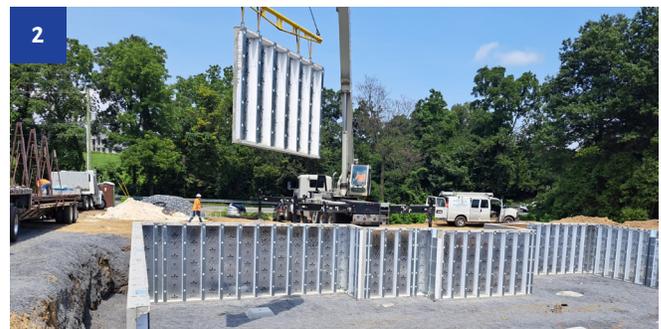
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Estimated bill and savings based on expected appliance usage in energy-efficient model home. PPL Electric Utilities and its partnering suppliers make no guarantee of usage, costs or savings and are not responsible for any variation in actual usage, costs or savings from this estimate.

Energy Contractors

Rater	PA Energy Auditors paenergyauditors.com
Mechanical	Ameri-Tec Mechanical ameri-tec.net
Air Sealing	Healthy Energy Pros healthyenergypros.com





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4. Better framing: A look around the house reveals walls, windows, doors and trim. Behind the drywall are hidden details—a world of high-performance framing. Better framing creates more room for insulation. This lowers energy use and increases comfort. (A) The roof is raised 10" above the outside wall to give room for the attic insulation. (B) This shows the open outside corner that allows room for wall insulation. (C) The walls have blown-in cavity insulation in addition to this continuous board insulation for a total rating of R25.



5. Ventilation: The energy recovery ventilator (ERV) brings fresh air into the house and exhausts stale air. This is very important for homes with tight air sealing. It's all about controlling the movement of air, heat and moisture. The ERV is connected to the HVAC ductwork, so fresh air is distributed evenly throughout the house.



6. High-efficiency heater: There are two high-efficiency Lennox heaters and air conditioners to effectively zone the house for optimal comfort.



7. High-efficiency water heater: The main water heater is a 95% efficient, high-capacity Navien tankless water heater. Tankless water heaters have no heat loss between use. This provides extra efficiency when the house is not occupied. Minimum yearly service means they have an extended life expectancy.



Learn more:

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