



High Performance Homes

Garrison Falls | Gettysburg, PA | HPhpa.com



Photos courtesy of High Performance Homes

"We are very happy with our new home." Home owner



PROJECT DATA

- **Layout:** 3 bdrm, 3 bath, 1 fl + bsmt, 5,140 ft²
- **Climate:** IECC 5A, cold
- **Completed:** March 2015
- **Category:** custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 32, with PV 14
- **Projected Annual Energy Costs:** without PV \$2,002, with PV \$699
- **Projected Annual Energy Cost Savings:** (vs home built to 2009 IECC) without PV \$842, with PV \$2,145
- **Annual Energy Savings:** without PV 227.7 MMbtu, with PV 360.7 MMbtu

CONTACT

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KEY FEATURES

- **Walls:** R-23 6.5" SIPs above grade, 4.5" SIP at band joist plus 1" closed-cell foam; R-19 batt in floor joists; house wrap, stone or stucco siding.
- **Roof:** Composite shingle over 15# felt, ice-and-water shield in valleys and at eaves, kick-out and 5" sidewall flashing; all down spouts drain to 10' pipe with pop-ups.
- **Attic:** R-53 vented attic with 1" closed-cell spray foam + R-49 blown cellulose.
- **Foundation:** Basement with 2" R-10 XPS under slab, poured concrete walls insulated on inside with 0.5" EPS and advanced framed with R-15 batts. Walk-out basement walls are 10.25" R-37 SIPs.
- **Windows:** Double-pane low-e, argon filled, U=0.25, SHGC=0.29.
- **Air Sealing:** 1.1 ACH 50.
- **Ventilation:** ERV.
- **HVAC:** Geothermal heat pump, 5.6 COP, 20.3 EER; all ducts in conditioned space.
- **Hot Water:** 50-gal desuperheater on geo heat pump + 93 EF 50-gal electric water heater.
- **Lighting:** 50% LED, 50% CFL.
- **Appliances:** ENERGY STAR dishwasher, refrigerator, and bath fans.
- **Solar:** 7.2-kW PV shingles.
- **Water Conservation:** Motion-sensor hot water recirc pump, low-flow fixtures.
- **Energy Management System:** Internet energy monitoring of HVAC and solar.
- **Other:** No-/low-VOC paint, adhesives, cabinetry.

