



Photos courtesy of Kalamazoo Valley Habitat for Humanity

“We are very excited to hear the energy bills and mortgage will be so low...” Home owner



PROJECT DATA

- **Layout:** 3 bdrm, 1 bath, 1 fl, 1,120 ft²
- **Climate:** IECC 5A, mixed-humid
- **Completed:** May 2016
- **Category:** affordable

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 46
- **Projected Annual Energy Costs:** without PV \$858
- **Projected Annual Energy Cost Savings:** (vs home built to 2009 IECC) without PV \$741
- **Annual Energy Savings:** without PV 2,138 kWh, 417 CCF

KEY FEATURES

- **Walls:** 2x4 studs 24" o.c. staggered on 2x6 plates, advanced framing, 2" XPS R-10 sheathing, metal wind bracing, R-22 dense-packed cellulose with netting, house wrap, vinyl siding.
- **Roof:** Ice-and-water shield 6' up from eaves, in valleys, around penetrations, and down subfascia; drip edge; soffit and ridge vents; styrofoam baffles and wind dams.
- **Attic:** Vented attic; lid sealed with flash spray of two-part foam; 20" R-60 blown cellulose; 16" raised heel trusses.
- **Foundation:** R-10 frost-protected shallow slab foundation.
- **Windows:** Triple-pane, vinyl-framed, low-e, argon-filled, U=0.20, SHGC=0.25.
- **Air Sealing:** 1.81 ACH 50.
- **Ventilation:** HRV, MERV 11 filter.
- **HVAC:** Forced-air natural gas furnace, 96% AFUE, metal ducts, sealed with mastic and located in insulated mechanical space in attic.
- **Hot Water:** Tankless hot water, 0.97 EF.
- **Lighting:** 100% LED, motion and moisture-sensing bath fan/light.
- **Appliances:** ENERGY STAR refrigerator.
- **Solar:** None.
- **Water Conservation:** Compact plumbing design, all WaterSense fixtures.
- **Energy Management System:** None.
- **Other:** No-VOC adhesives, low-VOC paints, carpet, pad, stains, finishes.

CONTACT

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