



Deltec Homes & Greenacres High Performance Consulting

Ridgeline | Hamilton, OH | DeltecHomes.com



Photos courtesy of Deltec Homes & Greenacres High Performance Consulting

“This winter when we had sub-zero temperatures outside, our home was comfortable.” Homeowners



PROJECT DATA

- **Layout:** 3 bdrm, 3 bath, 1 fl + bsmt, 2,523 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** December 2022
- **Category:** Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 37
- **Annual Energy Costs:** without PV \$1,250
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,600
- **Annual Energy Savings:** without PV 13,400 kWh
- **Savings in the First 30 Years:** without PV \$109,550

CONTACT

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KEY FEATURES

- **Walls:** Panelized, 2x6 24" o.c. + 1" exterior graphite EPS, 3" closed-cell spray foam then 2.5" blown cellulose in cavities for R-31 total; drainable housewrap, corrugated plastic rainscreen and bug screen; resin-wood composite lap siding.
- **Roof:** Truss, vaulted, monoslope, 5/8" plywood with seams taped, self-adhered eave and valley flashing, synthetic roof underlayment, architectural shingles.
- **Attic:** Unvented, vaulted ceilings, R-52, 8" closed-cell spray foam, 16" raised-heel trusses.
- **Foundation:** Insulated basement, R-28-38 total: poured concrete walls. Exterior: two layers self-adhered waterproofing membrane, two 2" layers EPS with seams glued, dimpled drain mat, aluminum flashing above grade. Interior: R-11 kraft-faced fiberglass batt in bottom 2/3rds of cavity (below frost line), R-21 mineral wool batts in top 1/3 of cavity (above frost line).
- **Windows:** Double-pane, U=0.27, SHGC=0.20, low-e3, argon gas fill. Installed in factory.
- **Air Sealing:** 0.46 ACH50. Factory-installed foam gasket between framing and plywood.
- **Ventilation:** ERV, separately ducted. App-controlled in-wall dehumidifier.
- **HVAC:** Two ductless air-source minisplit heat pumps, 12.5 HSPF and 33.3 SEER.
- **Hot Water:** Heat pump WH, 65-gal, 3.8 UEF, in conditioned basement.
- **Energy Management:** Home energy usage monitor. HPWH, clothes washer, and HP dryer are Wi-Fi connected.
- **Lighting and Appliances:** LED lighting, ENERGY STAR appliances.
- **Solar:** None.
- **Other:** Panelized construction; kit home; dedicated circuit for future EV charger.

