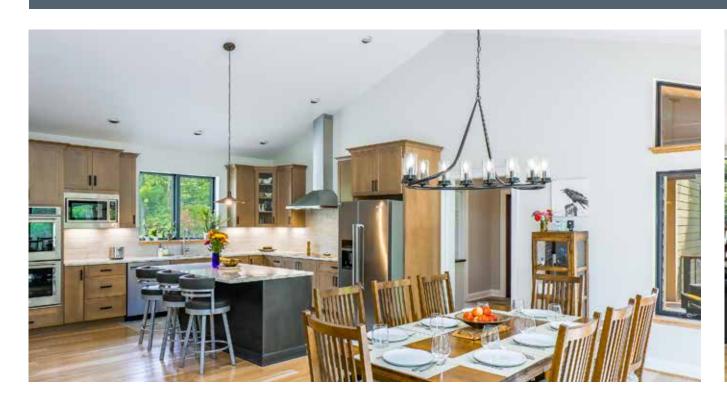


Cornerstone Construction of Northeast Ohio

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PROJECT DATA

• Layout: 4 bdrm, 3 bath, 1 fl + bsmt, 4,642 ft²

Climate: IECC 5A, cold
Completed: March 2022
Category: Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 42; with PV -2
- Annual Energy Costs: without PV \$2,050; with PV \$50
- Annual Energy Cost Savings: (vs typical new homes) without PV \$2,800; with PV \$4,800
- Annual Energy Savings: without PV 23,400 kWh; with PV 40,700 kWh
- Savings in the First 30 Years: without PV \$117,550; with PV \$ 199,950

CONTACT

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KEY FEATURES

- Walls: 2x6, 24" o.c. + 2" polyiso, R-31 total: blown fiberglass in cavity, 2" polyiso, rain screen furring with insect screen at bottom, fiber cement or stone veneer.
- **Roof:** Truss gable. All cathedral ceilings, in to out: $\frac{5}{8}$ " drywall, 1.5" furring for service cavity, $\frac{7}{16}$ " coated taped OSB, truss with R-60 blown in fiberglass, $\frac{5}{8}$ " coated taped OSB, synthetic underlayment, 24-gauge standing seam metal roof.
- Attic: Vented attic, R-60 total: 22" blown fiberglass, 14" raised-heel trusses.
- Foundation: Insulated basement, R-39 total, R-20 insulated pre-cast foundation walls with steel-faced insulated concrete studs, R-19 unfaced fiberglass batt in cavities.
- Windows: Double-pane windows: U=0.28, SHGC=0.2, argon-fill, Low-e, fiberglass framed, overhangs and fixed awnings.
- Air Sealing: 0.53 ACH 50. Rubber gasket under sill plate; sill seal and caulk at wall sheathing and top plates. All penetrations sealed with tape and joint sealant.
- Ventilation: HRV, timered bath exhaust. MERV 8 filters.
- HVAC: Two ducted air source heat pumps, HSPF of 10 and 15.4 SEER.
- Hot Water: Heat pump water heater, 50-gallon tank, 3.75 UEF. Two manifolds near kitchen and baths, recirculation pump, $\frac{1}{2}$ " PEX.
- Lighting and Appliances: 100% LED lighting. ENERGY STAR appliances, all electric, induction cooktop.
- Solar: 14.8 kW PV.
- Energy Management System: smart thermostat.
- Other: 2 electric vehicle chargers.



