



Photos courtesy of Thrive Home Builders

“We love the super-insulated, extra-thick walls, not just for the comfort and efficiency they provide, but for the quiet, peaceful environment they create within our home.” Homeowners



PROJECT DATA

- **Layout:** 5 bdrm, 5.5 bath, 2 fl + bsmt, 5,004 ft²
- **Climate:** IECC 5B, cold
- **Completed:** May 2022
- **Category:** Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 42; with PV 9
- **Annual Energy Costs:** without PV \$2,300; with PV \$350
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$4,200; with PV \$6,150
- **Annual Energy Savings:** without PV 19,300 kWh, 300 therms; with PV 34,850 kWh, 300 therms
- **Savings in the First 30 Years:** without PV \$170,300; with PV \$249,000

CONTACT

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KEY FEATURES

- **Walls:** Double wall, R-39 total: two 2x4 24" o.c. walls set 2.5" apart, advanced framed, 9.5" R-39 blown fiberglass, 1/16" OSB sheathing, drain wrap, engineered wood siding.
- **Roof:** Gable truss roof: 10-mil synthetic underlayment, 30-year asphalt shingles.
- **Attic:** Vented attic: 16" R-50 blown-in fiberglass, 14" raised energy trusses.
- **Foundation:** Basement: poured concrete; finished basement walls are 2x4 24" o.c. with R-15 fiberglass batts. Unfinished walls have R-19 fiberglass drape. Active radon vent.
- **Windows:** Double-pane, argon-filled, low-e, vinyl frame, U=0.23, SHGC=0.21.
- **Air Sealing:** 1.34 ACH50, closed-cell spray foam rim joists, canned foam at all top plates.
- **Ventilation:** Continuous exhaust + fresh air supply; temperature and humidity sensors.
- **HVAC:** Central air-source heat pump, 10 HSPF, 3.24 COP, 19.5 SEER, compact duct design.
- **Hot Water:** Heat pump water heater, 3.55 UEF, 65-gal.
- **Lighting:** 100% LED lighting.
- **Appliances:** ENERGY STAR dishwasher, refrigerators, clothes washer, clothes dryer.
- **Solar:** 9.88-kW rooftop panels, 10-kW battery storage.
- **Water Conservation:** EPA WaterSense rated low-flow fixtures, PEX piping: push-button hot-water recirculation pipe. Drip and smart irrigation.
- **Energy Management System:** Monitoring system tracks energy production and usage. Wi-Fi appliances and doorbell.
- **Other:** No-VOC paint, Green Label Plus carpet, KCMA-certified cabinetry, GreenGuard-certified hardwood flooring. Prewired for EV charging.

