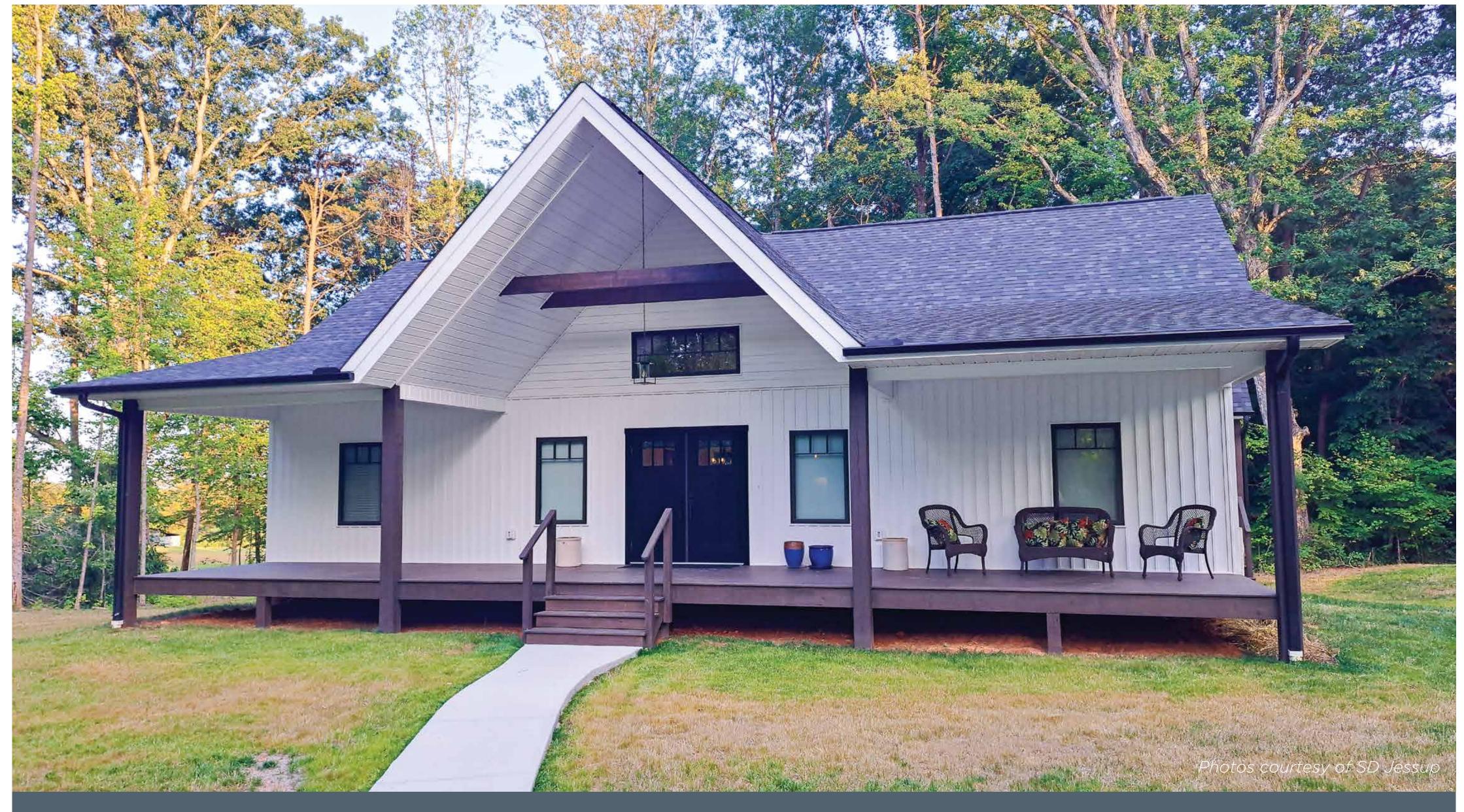


S. D. Jessup Construction

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PROJECT DATA

- **Layout:** 3 bdrm, 3 bath, 1 fl + bsmt, 3,147 ft²
- Climate: IECC 4A, mixed-humid
- Completed: October 2023
- Category: Custom

MODELED PERFORMANCE DATA

- **ERI:** without PV 37
- Annual Energy Costs: without PV \$900
- Annual Energy Cost Savings: (versus typical new homes) without PV \$1,600
- Annual Energy Savings: without PV 13,130 kWh
- Savings in the First 30 Years: without PV \$66,750

CONTACT

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KEY FEATURES

- **Walls:** 2x4 16" o.c. + 1" polyiso, advanced framed, R-21.6 total: R-15 unfaced fiberglass batt plus R-6.6 continuous polyiso; coated OSB sheathing; vertical vinyl siding.
- **Roof:** Gable truss roof, $\frac{7}{16}$ " OSB sheathing, peel and stick membrane, synthetic roof underlayment, asphalt shingles, ridge vent.
- Attic: Vented attic: R-38 blown fiberglass in flat ceilings. R-20 fiberglass batt plus 4" blown fiberglass in cathedral ceilings.
- **Foundation:** Insulated basement: Precast concrete wall system with adhered 2.5" rigid polyiso on interior with metal facing over insulation-wrapped concrete studs; R-19 unfaced fiberglass batts and $\frac{1}{2}$ " drywall in finished areas (80% of basement).
- **Windows:** Triple-pane windows, U=0.20, SHGC=0.18. Southward wall has a covered porch. All windows fixed or casement with triple seals.
- Air Sealing: 1.5 ACH50. Sheathing is coated, taped, and caulked to foundation.
- **Ventilation:** Controlled central fan with fresh air intake and timed exhaust integrated with HVAC system. Master bath timed for ASHRAE 62.2 ventilation rate.
- **HVAC:** Central air-source heat pump, 12.6 HSPF, 18 SEER. Variable-speed compressor. Integrated dehumidifier. Zone dampers. MERV 13 filter. Condensate drain shared by HP AC, dehumidifier, and HPWH.
- Hot Water: Heat pump water heater, 50-gal, 3.88 EF. Core plumbing design.
- Lighting and Appliances: ENERGY STAR appliances.
- Solar: None.
- Energy Management System: IAQ and energy monitoring. App-connected water heater.
- Other: Builder draws house plans to incorporate ZERH at design stage.





