



Photos courtesy of Insight Homes

“The energy efficiency of the home has been outstanding as promised to us by the builder.” Homeowner



PROJECT DATA

- **Layout:** 4 bdrm, 2.5 bath, 2 fls, 3,680 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** December 2019
- **Category:** Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 50
- **Annual Energy Costs:** without PV \$2,400
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$3,450
- **Annual Energy Savings:** without PV 7,300 kWh, 500 Therms
- **Savings in the First 30 Years:** without PV \$161,200

CONTACT

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KEY FEATURES

- **Walls:** Panelized walls, R-23 total: 2x6, 24" o.c., blown fiberglass, weather barrier coated 7/16" OSB sheathing, vinyl siding.
- **Roof:** Truss gable roof: 7/16" OSB sheathing, 15# roofing paper, architectural shingles, 15" overhangs, ENERGY STAR Cool Roof certified.
- **Attic:** Vented: 16.25" R-49 blown fiberglass, 12" R-38 batt fiberglass in vaulted. 18" raised heel trusses.
- **Foundation:** Unvented crawlspace: poured concrete walls, liquid water proofing on exterior, interior perimeter drain to sump pit, 4" gravel, 10-mil poly vapor barrier, 2" R-10 XPS on interior to footer, R-19 open-cell spray foam in band joist.
- **Windows:** Double-pane, argon-filled, low-e, vinyl double-hung frames, U=28, SHGC=0.19.
- **Air Sealing:** 1.9 ACH 50, spray foam top plates and ceiling penetrations.
- **Ventilation:** Exhaust-only. MERV 13 filters in returns.
- **HVAC:** Gas furnace heater, 97.5 AFUE. Central heat pump up to 20 SEER variable capacity. Round metal trunk lines, flex branch ducts.
- **Hot Water:** Condensing tankless propane water heater, up to 0.97 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator and dishwasher.
- **Solar:** N/A.
- **Water Conservation:** EPA WaterSense fixtures. Central manifold with PEX piping.
- **Energy Management System:** Wi-Fi-connected thermostats.
- **Other:** Low VOC paints, construction adhesives, and carpeting.

