



Ferrier Custom Homes

The Brazos River House | Mineral Wells, TX | FerrierCustomHomes.com



Photos courtesy of Ferrier Custom Homes

“As a specialist in energy-efficient, sustainable, green homes, this home...is an extension of our philosophy.” *Home owner*



PROJECT DATA

- **Layout:** 2 bdrm, 2 bath, 1 fl, 2,133 ft²
- **Climate:** IECC 3A, mixed-humid
- **Completed:** June 2018
- **Category:** custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 50; with PV 12
- **Annual Energy Costs:** without PV \$1,450; with PV \$450
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$400; with PV \$1,400
- **Annual Energy Savings:** without PV 7,200 kWh, with PV 14,800 kWh
- **Savings in the First 30 Years:** \$60,500

KEY FEATURES

- **Walls:** 6.5" SIPs, R-17.5 total: house wrap, stone and brick siding.
- **Roof:** Shed roof; 10.5" R-33 SIPs, synthetic underlayment, Class IV highly reflective standing-seam metal roof, 60-mil TPO membrane on awnings and overhangs.
- **Attic:** Unvented, vaulted ceilings; 10.25" SIPs; small conditioned attic for HVAC.
- **Foundation:** Slab on grade.
- **Windows:** Triple-pane, argon-filled, low-e4, wood, fiberglass, and composite casement frames, U=0.27, SHGC=0.19.
- **Air Sealing:** 2.07 ACH 50.
- **Ventilation:** ERV, exhaust fan timers, MERV 11 filters.
- **HVAC:** 4-ton central air-source heat pump with 5-ton variable-speed air handler, 9 HSPF, 16 SEER; flex ducts located in conditioned attic; humidity controls on thermostat.
- **Hot Water:** Electric tankless, 99% efficient; compact plumbing with PEX piping.
- **Lighting:** 60% LED, 40% CFL, 2 solar tubes for daylighting.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, and clothes washer.
- **Solar:** 4.64-kW PV system.
- **Water Conservation:** EPA WaterSense fixtures and toilets; native and drought-resistant landscaping. Rooftop rainwater catchment with 10,000-gal. tank provides all of the house's water needs.
- **Energy Management System:** Programmable thermostat, PV tracking system.
- **Other:** 3-ft doors, zero-entry shower, non-toxic pest control. Sustainable wood products. IBHS Fortified Home with high wind, tornado, hail, and wildfire-resistant features.

CONTACT

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