Ferrier Custom Homes
Coleman Project | Fort Worth, TX | FerrierCustomHomes.com

“The Zero Energy Ready Home has given me a superior home-owning experience.” Homeowner

PROJECT DATA

• Layout: 3 bdrm, 2.5 bath, 2 fls, 2,938 ft²
• Climate: IECC 3A, hot-humid
• Completed: October 2019
• Category: Custom for Buyer <3,000 ft²

MODELED PERFORMANCE DATA

• HERS Index: without PV 48; with PV 2
• Annual Energy Costs: without PV $2,000; with PV $450
• Annual Energy Cost Savings: (vs typical new homes) without PV $200; with PV $1,500
• Annual Energy Savings: without PV 2,100 kWh, 50 Therms; with PV 13,900 kWh, 50 Therms
• Savings in the First 30 Years: without PV $9,800; with PV $69,500

KEY FEATURES

• Walls: SIPs, 4.5” R-17.5 total: SIPs, house wrap; window and door flashing; stone, brick, wood, and cementitious stucco siding; drip caps over all exterior doors & windows.
• Roof: SIP roof, R-31 total: 8.25” SIPs, synthetic underlayment, class IV highly reflective white standing seam metal cladding, ENERGY STAR Cool Roof certified. Mono-pitch roof design.
• Attic: No attic.
• Foundation: Uninsulated slab on grade.
• Windows: Triple-pane, argon-filled, low-e3, aluminum-clad wood awning, casement, fixed, and single-hung frames, U=0.29, 0.28, 0.28, SHGC=0.22, 0.20, 0.24, tuned for direction.
• Air Sealing: 1.3 ACH 50, all SIP seams sealed with elastomeric sealant.
• Ventilation: Balanced central fan with fresh air intake and timed exhaust.
• HVAC: Central air source heat pump, 9 HSPF, 16 SEER. All ducts in conditioned space.
• Hot Water: Tankless gas water heater, 0.82 EF. Compact plumbing design.
• Lighting: 95% LED, 5% CFL. Daylighting.
• Appliances: ENERGY STAR dishwasher, refrigerator, and clothes washer.
• Solar: 8.85-kW; 30 295-W rooftop panels, 1 inverter.
• Water Conservation: EPA WaterSense fixtures, drought-resistant landscaping; drip, smart irrigation.
• Energy Management System: PV tracking, programmable thermostat, smart lighting.

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For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.