



# C&B Custom Homes

Crossroads at Mingus | Clarkdale, AZ | CandBHomes.com



Photos courtesy of C&B Custom Homes

"It is much more energy efficient than our last home." Homeowners



## PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl, 1,328 ft<sup>2</sup>
- **Climate:** IECC 4B, mixed-dry
- **Completed:** June 2022
- **Category:** Custom Spec

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 45; with PV 30
- **Annual Energy Costs:** without PV \$1,100; with PV \$850
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$550; with PV \$1,000
- **Annual Energy Savings:** without PV 7,550 kWh, 380 therms; with PV 10,100 kWh, 380 therms
- **Savings in the First 30 Years:** without PV \$26,900; with PV \$49,150

## CONTACT

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## KEY FEATURES

- **Walls:** 2x6, 16" o.c., R-27 total: R-22 spray foam in cavity, house wrap, 1" R-5 foam sheathing. Type F acrylic stucco.
- **Roof:** Truss gabled roof: ½" deck sheathing, fully self-adhered underlayment. Cement tiles.
- **Attic:** Unvented attic with 7" R-25 open-cell spray foam on underside of roof deck.
- **Foundation:** Slab on grade: CMU stem walls. Rigid foam is 2" thick (R-10) and 48" wide under slab perimeter and 1" R-5 on slab edge.
- **Windows:** Double-pane, argon-filled, low-e, vinyl frame, U=0.27, SHGC=0.19.
- **Air Sealing:** 1.80 ACH50, spray-foamed attic, sill seal, foam seal all exterior penetrations.
- **Ventilation:** ERV tied to central air handler, MERV 9 filter.
- **HVAC:** Gas furnace, 96% AFUE. 14 SEER AC unit. Flex ducts in attic.
- **Hot Water:** Gas tankless, 97% efficient, central manifold plumbing with PEX piping.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR dishwasher, refrigerator, ceiling fan, exhaust fans.
- **Solar:** 3.45-kW, 10 rooftop panels with integrated micro-inverters.
- **Water Conservation:** EPA WaterSense-rated low-flow showerheads, faucets, and toilets. Central manifold with PEX piping. Button-activated recirculation pump. Drip irrigation.
- **Energy Management System:** Smart thermostats; app that tracks electricity usage and production.
- **Other:** Low/no-VOC finishes, paints, adhesives; GreenGuard Gold flooring. Outlets for EV charging.

