



Mandalay Homes

Wickenburg Ranch | Wickenburg, AZ | MandalayHomes.com



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“What better way to spread the word about healthy, energy-efficient living than through happy, satisfied home owners!” *Geoff Ferrell, Mandalay Homes*



PROJECT DATA

- **Layout:** 3 bdrm, 3.5 bath, 1 fl, 2,915 ft²
- **Climate:** IECC 2B, hot-dry
- **Completed:** May 2018
- **Category:** production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 46; with PV 25
- **Annual Energy Costs:** without PV \$1,550; with PV \$500
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,550; with PV \$2,250
- **Annual Energy Savings:** without PV 11,800 kWh; with PV 17,200 kWh
- **Savings in the First 30 Years:** \$109,600

KEY FEATURES

- **Walls:** 2x6 and 2x8 24" o.c. advanced framed; R-15 open-cell spray foam + R-4 rigid foam; minimal sheathing; house wrap; stucco, Total = R-19.
- **Roof:** 7/16" coated OSB decking taped at seams; felt; battens; tile roofing. No roof penetrations; all vents through gable ends.
- **Attic:** Unvented attic; 5.5 to 7.5" R-25 open-cell spray foam on underside of roof deck. Raised heel trusses.
- **Foundation:** Post-tensioned slab on grade, uninsulated.
- **Windows:** Double-pane, low-e, insulated vinyl frames; U=0.32, SHGC=0.13.
- **Air Sealing:** 0.74 ACH 50; whole-house aerosol sealant.
- **Ventilation:** ERV.
- **HVAC:** Zoned, 4-ton, 18 SEER, 9.6 HSPF, ECM controlled motor.
- **Hot Water:** 50 gal. hybrid heat pump water heater with smart recirculation pump.
- **Lighting:** 100% luminaire LED lights with integrated dimmers.
- **Appliances:** All ENERGY STAR appliances, including heat pump, ERV, bathroom exhaust fans, kitchen appliances, lighting fixtures, and HVAC equipment.
- **Solar:** 3.1-kW PV plus battery storage.
- **Water Conservation:** WaterSense fixtures and appliances, smart irrigation system.
- **Energy Management System:** Smart home automation.
- **Other:** Low- or no-VOC materials. Wi-Fi-enabled electric car charging station. Passive solar design; daylighting.

CONTACT

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