



Mandalay Homes

South Phoenix Village | Phoenix, AZ | MandalayHomes.com



Photos courtesy of Mandalay Homes

“Consume less, conserve more, and give home buyers the most comfortable and healthy living experience possible.” *Geoff Ferrell, Mandalay Homes*



PROJECT DATA

- **Layout:** 4 bdrm, 2 bath, 1 fl, 1,690 ft²
- **Climate:** IECC 2B, hot-dry
- **Completed:** December 2017
- **Category:** affordable

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 49; with PV NA
- **Annual Energy Costs:** without PV \$1,255; with PV NA
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,000; with PV \$NA
- **Annual Energy Savings:** without PV 9,150 kWh; with PV \$NA
- **Savings in the First 30 Years:** \$44,100

CONTACT

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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.
- **Foundation:** Post-tensioned slab on grade, uninsulated.
- **Windows:** Double-pane, low-e, insulated vinyl frames; U=0.19, SHGC=0.33.
- **Air Sealing:** 0.96 ACH 50; whole-house aerosol sealant.
- **Ventilation:** ERV.
- **HVAC:** Heat pump, 16 SEER, 9.6 HSPF; R-6 ducts in conditioned space.
- **Hot Water:** 50-gallon heat pump water heater in garage; smart recirculation pump.
- **Lighting:** 100% LED.
- **Appliances:** All ENERGY STAR appliances, including heat pump, ERV, bathroom exhaust fans, kitchen appliances, lighting fixtures, and HVAC equipment.
- **Solar:** Solar ready.
- **Water Conservation:** WaterSense fixtures and appliances, irrigation system with rain sensor.
- **Energy Management System:** None.
- **Other:** Low- or no-VOC materials. Wi-Fi-enabled electric car charging station. Passive solar design; daylighting.

