



Mandalay Homes

The Dells at Cathedral Point | Prescott, AZ | MandalayHomes.com



Photos courtesy of Mandalay Homes

“The greatest reward would have to be pride in what we have chosen to do.”
Geoff Ferrell, Manager of Construction and Energy Efficiency, Mandalay Homes



PROJECT DATA

- **Layout:** 3 bdrm, 3 bath, 1 fl, 2,207 ft²
- **Climate:** IECC 4B, mixed-dry
- **Completed:** March 2016
- **Category:** production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 47, with PV -2
- **Projected Annual Energy Costs:** without PV \$1,473, with PV -\$234
- **Projected Annual Energy Cost Savings:** (vs home built to 2012 IECC) without PV \$897, with PV \$2,334
- **Annual Energy Savings:** without PV 4,206 kWh, 392 therms; with PV 16,081 kWh, 404 therms

CONTACT

Geoff Ferrell
Geoff@mandalayhomes.com
928-710-5915

KEY FEATURES

- **Walls:** 2x6 24" o.c. studs, advanced framing, R-17 spray foam in cavities, R-4 continuous rigid foam exterior, coated 7/16" OSB taped at seams for moisture barrier, stucco siding.
- **Roof:** 1/2" coated OSB decking taped at seams, felt, battens, tile roofing.
- **Attic:** Unvented attic, raised heel trusses, R-25 open-cell foam on underside of roof deck.
- **Foundation:** 2" R-10 foam at slab edge to 24" deep, on interior of stem wall on conventional slab.
- **Windows:** Vinyl-framed, dual-pane, argon-filled, low-e, U=0.29, SHGC=0.23.
- **Air Sealing:** 0.83 ACH 50.
- **Ventilation:** ERV.
- **HVAC:** 2-stage 95% AFUE gas furnace, 18 SEER AC, in conditioned attic.
- **Hot Water:** 95% efficient, natural gas tankless water heater.
- **Lighting:** 90% LED, 10% CFL, motion sensors, ENERGY STAR ceiling fans.
- **Appliances:** All ENERGY STAR.
- **Solar:** Wired for solar.
- **Water Conservation:** All WaterSense fixtures, and drip irrigation, smart-timed.
- **Energy Management System:** Automatic controls of HVAC, ventilation, and lighting.
- **Other:** EPA indoor airPLUS certified, no-/low-VOC paints, stains, adhesives, and flooring.

