



Photos courtesy of Addison Homes

"We love this home. The energy bills are miniscule and the comfort is tremendous!" *Home owner*



PROJECT DATA

- **Layout:** 3 bdrm, 2.5 bath, 1 fl + bsmt, 3,444 ft²
- **Climate:** IECC 3A, mixed-humid
- **Completed:** July 2016
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 41, with PV 13
- **Projected Annual Energy Costs:** without PV \$1,500, with PV \$600
- **Projected Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,300, with PV \$2,200
- **Annual Energy Savings:** without PV 13,300 kWh, 80 therms; with PV 22,400 kWh, 80 therms

KEY FEATURES

- **Walls:** 2x6 24" o.c. advanced framed, insulated headers, 2-stud corners; R-13 unfaced fiberglass batt, 7/16" OSB, 1" R-5 taped XPS: R-18 total. Vinyl siding; fiber cement trim.
- **Roof:** Ice-and-water shield in valleys and low roofs; kick-out flashing, synthetic felt, drip edge flashing, vent gaskets, butyl tape flashing, asphalt and PV shingles.
- **Attic:** R-38 blown fiberglass. All penetrations and top plates sealed. Skylight shafts have R-10 XPS foam and R-19 unfaced fiberglass batts.
- **Foundation:** Daylight basement of precast concrete walls with R-16 XPS foam, R-5 XPS under slab perimeter. Daylight wall has R-5 XPS. 19.2" o.c. open-web floor joists.
- **Windows:** Double-pane, low-e2; U=0.32, SHGC=0.23. Solar tubes U=0.36, SHGC=0.23.
- **Air Sealing:** 1.49 ACH 50.
- **HVAC:** Heat pump 18.5 SEER, 9.7 HSPF. Ducts inside; rigid trunk, flex branch. Return registers in every room, balancing dampers. Fresh air intake with air cyclor controller, MERV 16 filter, photocatalytic oxidation air filter. Kitchen and timered bath fan exhaust outside.
- **Hot Water:** ENERGY STAR tankless gas water heater, 0.98 EF.
- **Lighting:** 98% LED, 2% CFL, skylights, solar tubes.
- **Appliances:** ENERGY STAR clothes washer, refrigerator, dishwasher, ceiling fans, exhaust fans.
- **Solar:** 6-kW solar shingles, grid tied.
- **Water Conservation:** Low-flow fixtures. Hot water recirc. WaterSense irrigation.
- **Energy Management System:** Smart HVAC, solar PV monitoring system.
- **Other:** No-/low-VOC paints, adhesives; GREENGUARD-certified hardwood flooring, carpet, pad; non-toxic pest control; KCMA ESP-labeled cabinets; no added formaldehyde insulation. Laminated beams, I-joint floors, finger-jointed trim and cabinets. Universal design.

CONTACT

Todd Usher
864-848-2667
todd@addison-homes.com

