



Woodside Homes

Boulder at Sky Ranch | West Jordan, UT | WoodsideHomes.com



Photos courtesy of Woodside Homes

“The goal is to make sure we are producing the most efficient product at an economically responsible price.” Woodside Homes



PROJECT DATA

KEY FEATURES

- **Layout:** 3 bdrm, 2.5 bath, 2 fls + bsmt, 3,192 ft²
- **Climate:** IECC 5B, cold
- **Completed:** March 2023
- **Category:** Production

- **Walls:** 2x6, 16" o.c., R-24 total: blown fiberglass, ½" OSB, housewrap, fiber cement siding.
- **Roof:** Gabled, truss roof, ½" OSB sheathing, felt underlayment, asphalt shingles.
- **Attic:** Unvented roof (hot roof), R-38 closed-cell spray foam under roof sheathing.
- **Foundation:** Insulated basement, R-19 continuous fiberglass insulation blanket on interior of walls. Damp proofing on exterior.
- **Windows:** Double-pane windows, U=0.29, SHGC=0.29, argon gas fill, low-e, vinyl framed.
- **Air Sealing:** 1.92 ACH50. Expansive foam around all exterior penetrations, sealing of drywall to framing, sealing of walls and floors between the garage and living areas. Whole-house aerosolized air sealant.
- **Ventilation:** ERV with its own ducting, with timer controls. MERV 13 filters.
- **HVAC:** Gas furnace, AFUE 96.5%, AC SEER 14. Two furnaces—1 in attic for upper floor, 1 in basement for main floor. Also minisplit ductless heat pump in garage.
- **Hot Water:** Gas tankless water heater, 0.95 EF. Recirculation pump with adaptive and on demand controls. Central manifold PEX plumbing. Recirculation pump with adaptive and on demand controls. Central manifold PEX plumbing.
- **Lighting and Appliances:** LED lighting, ENERGY STAR appliances.
- **Solar:** 4.55-kWh solar PV, 13-kWh battery storage to even out demand and wired to critical loads for power outages.
- **Energy Management System:** Power monitoring devices.
- **Other:** Indoor air quality sensors.

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 53; with PV 29
- **Annual Energy Costs:** without PV \$1,750; with PV \$1,050
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$650; with PV \$1,350
- **Annual Energy Savings:** without PV 1,100 kWh, 480 therms; with PV 7,200 kWh, 480 therms
- **Savings in the First 30 Years:** without PV \$15,000; with PV \$42,400

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