



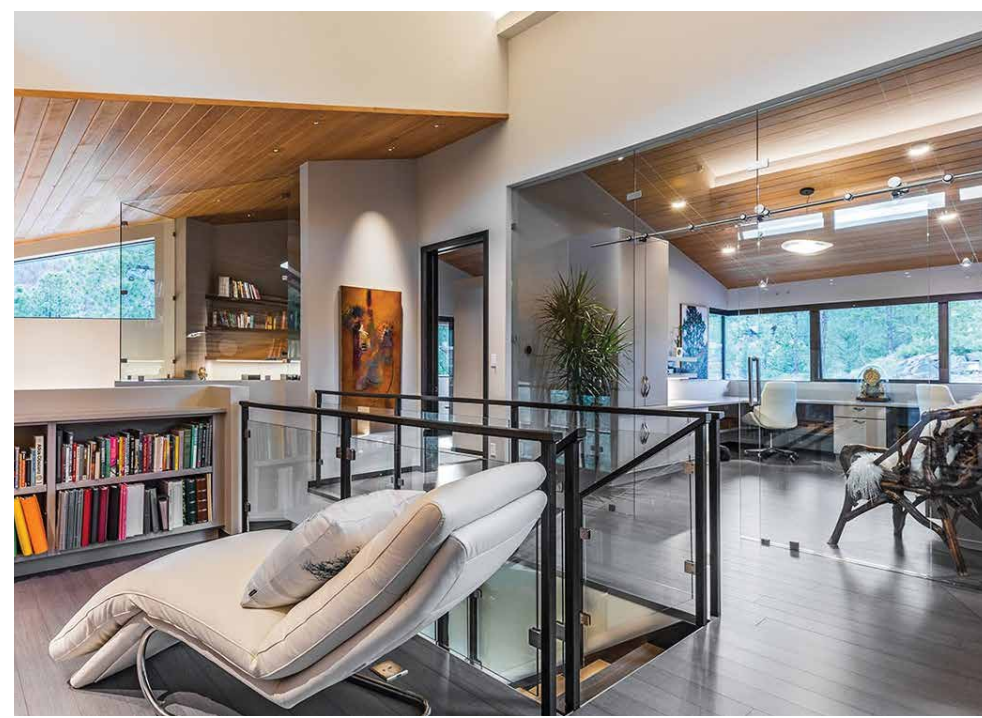
# Mantell-Hecathorn Builders

Glacier Club Modern Home | Durango, CO | M-HBuilders.com



Photos courtesy of Mantell-Hecathorn Builders

"We are so pleased with our new home." Home owner



## PROJECT DATA

- **Layout:** 3 bdrm, 3.5 bath, 3 fls + bsmt, 4,937ft<sup>2</sup>
- **Climate:** IECC 5B, cold
- **Completed:** 2018
- **Category:** custom for buyer

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 46; with PV 20
- **Annual Energy Costs:** without PV \$2,550; with PV \$1,000
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,400; with PV \$2,900
- **Annual Energy Savings:** without PV 2,400 kWh, 2,000 CCF; with PV 14,700 kWh, 2,000 CCF
- **Savings in the First 30 Years:** \$138,400

## CONTACT

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## KEY FEATURES

- **Walls:** 2x6 24" o.c. advanced framing, R-38 total: 5/8" drywall; in cavity - 2.5" closed-cell spray foam plus 3" loose-fill fiberglass; on exterior - coated OSB sheathing, 2" rigid foam, rainscreen under stucco or stone, or 3/4" furring strips under siding.
- **Roof:** Shed roof, 5/8" coated OSB sheathing, ice-and-water shield, metal roof.
- **Attic:** Cathedral ceilings: 3/4" tongue-and-groove Douglas Fir, 5/8" drywall, 11 7/8" I-joists, R-19 batt, 7" closed cell spray foam.
- **Foundation:** Insulated basement, R-23 total: 5/8" drywall, 2x4 studs 24" o.c.; 3" closed-cell spray foam, 8" poured concrete, water proofing, 2" rigid foam, drainage board.
- **Windows:** Triple-pane, low-e2, aluminum-clad wood fixed frames, interior motorized blinds, U=0.19, SHGC=0.50.
- **Air Sealing:** 1.5 ACH 50.
- **Ventilation:** HRV, continuous ventilation, boost switches in bathroom, MERV 13 filters.
- **HVAC:** Radiant floor heat from wall-hung gas boiler, 96% AFUE; 22 SEER AC; passive solar.
- **Hot Water:** Wall hung gas-fired boiler, 96% AFUE, 80-gal., push button recirculation pump.
- **Lighting:** 100% LED, integrated lighting controls.
- **Appliances:** ENERGY STAR dishwasher, clothes washer, and refrigerator.
- **Solar:** 7.2-kW PV system.
- **Water Conservation:** WaterSense fixtures; drought-resistant landscaping.
- **Energy Management System:** Smart thermostats, lighting automation, PV tracking.
- **Other:** Aging-in-place, all low-to-no-VOC and formaldehyde-free products.

