



# Mantell-Hecathorn Builders

Cortez Custom | Durango, CO | M-HBuilders.com



Photos courtesy of Mantell-Hecathorn Builders and Marona Photography

“The house is so well built that heating and cooling demands are minimal.” *Home owner*



## PROJECT DATA

- **Layout:** 2 bdrm, 2 bath, 1 fl, 1,559 ft<sup>2</sup>
- **Climate:** IECC 5B, cold
- **Completed:** May 2015
- **Category:** custom for buyer

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 45, with PV -13
- **Projected Annual Energy Costs:** without PV \$1,252, with PV -\$101
- **Projected Annual Energy Cost Savings:** (vs home built to 2006 IECC) without PV \$1,219, with PV \$2,572
- **Annual Energy Savings:** without PV 11,080 kWh, with PV 23,380 kWh

## CONTACT

Hunter Mantell-Hecathorn  
hunter@m-hbuilders.com  
970-799-0580

## KEY FEATURES

- **Walls:** R-42 double-wall with 2x6 24" o.c. outer wall, 2x4 24" o.c. inner wall for 9" cavity with 3" closed-cell spray foam plus 6" blown fiberglass; coated OSB sheathing with seams taped, 3/8" woven plastic rain screen, fiber cement lap siding.
- **Roof:** 6' ice-and-water shield at eaves, synthetic vapor-permeable underlayment, standing seam metal roofing.
- **Attic:** R-70 22" blown fiberglass in vented attic; 7" R-46 closed-cell spray foam + R-22 batt in vaulted ceilings total R-68.
- **Foundation:** Conditioned crawlspace with R-22 ICF walls, R-20 4" rigid foam under garage slab.
- **Windows:** Vinyl-framed, triple-pane, low-e, air-filled, U=0.20, SHGC=0.26.
- **Air Sealing:** 1.59 ACH 50.
- **Ventilation:** ERV.
- **HVAC:** Ductless mini-split heat pumps, 12 HSPF, 26 SEER.
- **Hot Water:** 58-gal heat pump water heater, 3.00 EF.
- **Lighting:** 100% LED, ENERGY STAR ceiling fan.
- **Appliances:** ENERGY STAR refrigerator, clothes dryer.
- **Solar:** 6.8-kW PV.
- **Water Conservation:** All faucets EPA WaterSense certified.
- **Energy Management System:** None.
- **Other:** Low-VOC, electric car charging station, EPA Indoor airPLUS qualified home.

