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

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

PROJECT DATA

• Layout: 3 bdrm, 3.5 bath, 3 fls + bsmt, 4,937 ft²
• 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: ½” 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 ½” furring strips under siding.
• Roof: Shed roof, ¾” coated OSB sheathing, ice-and-water shield, metal roof.
• Attic: Cathedral ceilings: ¼” tongue-and-groove Douglas Fir, ½” drywall, 11 ¾” I-joists, R-19 batt, 7” closed cell spray foam.
• Foundation: Insulated basement, R-23 total: ½” 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.