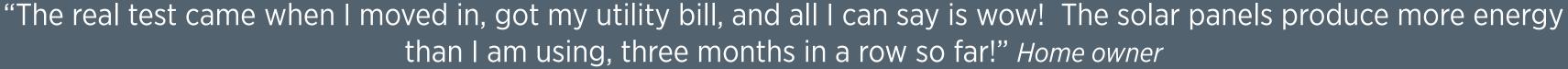


Thrive Home Builders

Courtyard Rows | Lone Tree, CO | ThriveHomeBuilders.com















PROJECT DATA

• **Layout:** 2 bdrm, 2 bath, 2 fl + bsmt, 2,780 ft²

Climate: IECC 5B, cold
Completed: August 2016
Category: multifamily

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 41, with PV 8
- Projected Annual Energy Costs: without PV \$1,200, with PV \$150
- Projected Annual Energy Cost Savings:
 (vs typical new homes) without PV
 \$1,750, with PV \$2,850
- Annual Energy Savings: without PV 6,300 kWh, 360 therms; with PV 15,300 kWh, 360 therms

CONTACT

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KEY FEATURES

- Walls: Double walls, $2x4\ 24''$ o.c. advance framed, staggered studs, 9.5'' R-41 blown fiberglass. Sprayer applied sealant; $\frac{1}{2}''$ OSB; corrugated house wrap; fiber cement & stone siding.
- **Roof:** Ice-and-water shield; waterproof underlayment; metal drip edge; 30-yr asphalt shingles.
- Attic: Vented attic; R-50 blown fiberglass; 14" raised heel trusses; sealed top plates.
- **Foundation:** Basements with R-19 blanket insulation on interior of unfinished walls; R-15 in cavity of finished walls; 4" gravel and vapor barrier under slab.
- Windows: ENERGY STAR double-pane, argon-filled, vinyl-framed; U=0.21, SHGC=0.28.
- **Air Sealing:** 4.35 ACH 50.
- Ventilation: Continuous exhaust fans.
- **HVAC:** Central air-source heat pump HSPF 9.0, SEER 15.5, plus 97.4 AFUE backup gas furnace. Ducts in conditioned space.
- Hot Water: .97 EF tankless gas water heater.
- Lighting: 100% CFL.
- Appliances: ENERGY STAR refrigerator, dishwasher, exhaust fans.
- Solar: 6.2-kW solar PV.
- Water Conservation: WaterSense fixtures, "smart" hot water recirc; drip irrigation.
- Energy Management System: Internet monitoring of PV production and energy use.
- Other: EPA Indoor airPLUS; low-VOC paints; low-formaldehyde wood products. Shear walls; reinforced framing and roof. Excavation to 30-ft depth to replace high-expansion soils. Active radon ventilation system. Ducts cleaned.





