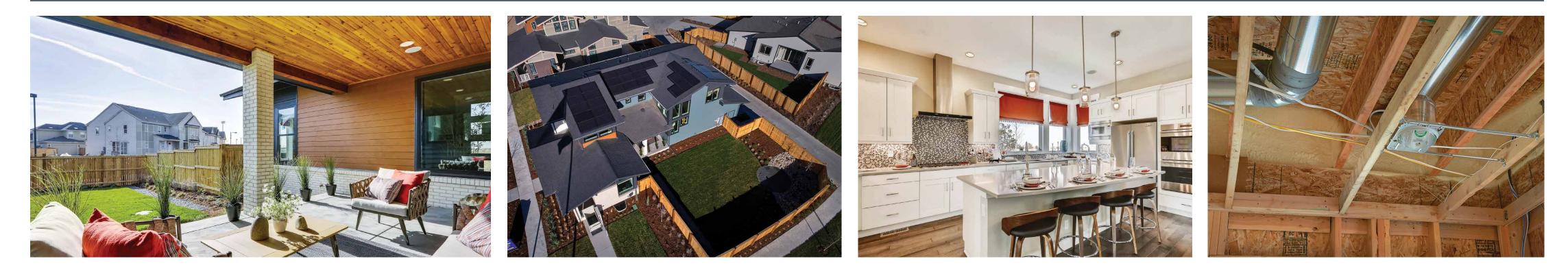


Thrive Home Builders

Panacea | Denver, CO | ThriveHomeBuilders.com



"It is remarkable-the quality of living for me personally just because of the air quality." Home owner



PROJECT DATA

- Layout: 5 bdrm, 4.5 bath, 2 fls + bsmt, 5,142 ft²
- Climate: IECC 5B, cold
- **Completed:** October 2017
- **Category:** production

KEY FEATURES

- Walls: Double wall of two 2x4 24" o.c. advanced framed walls with 2.5" gap. R-41 total: ¹/₂" drywall, 9.5" blown fiberglass, ⁷/₁₆" OSB sheathing, house wrap, brick veneer and fiber cement siding.
- **Roof:** Gable roof; 7/16" APA-rated sheathing, synthetic underlayment, 40-mil self-adhering bituminous ice-and-water membrane, 30-year asphalt shingles.

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 43; with PV 8
- Annual Energy Costs: without PV \$1,800; with PV \$200
- Annual Energy Cost Savings: (VS typical new homes) without PV \$2,800; with PV \$4,500
- Annual Energy Savings: without PV 10,000 kWh, 600 Therms; with PV 24,200 kWh, 600 Therms
- Savings in the First **30 Years:** \$216,000

CONTACT

Bill Rectanus 614-204-9043 brectanus@thrivehomebuilders.com • Attic: Vented attic, R-49 batt in cathedral and R-50 blown fiberglass on flat ceilings, 14" raised heel trusses.

- Foundation: Insulated basement, ¹/₂" drywall, R-15 fiberglass batt, 8" concrete.
- Windows: Double-pane, argon-filled, low-e2, vinyl frames, U=0.25, SHGC=0.20.
- Air Sealing: 1.82 ACH 50; flexible top-plate drywall gasket; spray foam at rim joists.
- Ventilation: ERV MERV 8 filter, HVAC MERV 16 filter; smart indoor air quality monitors.
- HVAC: Central air-source heat pump, 12.5 HSPF, 18 SEER; gas furnace backup, 0.95 AFUE; metal ducts in conditioned space.
- Hot Water: Gas tankless, .96 EF, push-button recirculation pump.
- **Lighting:** 100% LED, transom windows, daylighting.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer, bath fans.
- **Solar:** 9.92-kW PV system, 7-kW battery.
- Water Conservation: EPA WaterSense fixtures and toilets, drought-resistant landscaping.
- Energy Management System: Smart thermostat, internet-enabled energy monitoring.
- **Other:** KCMA cabinets, Green Guard gold-certified flooring, paint; active radon system.



Energy Efficiency & Renewable Energy



For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zeroenergy-ready-home or scan the QR code.

