

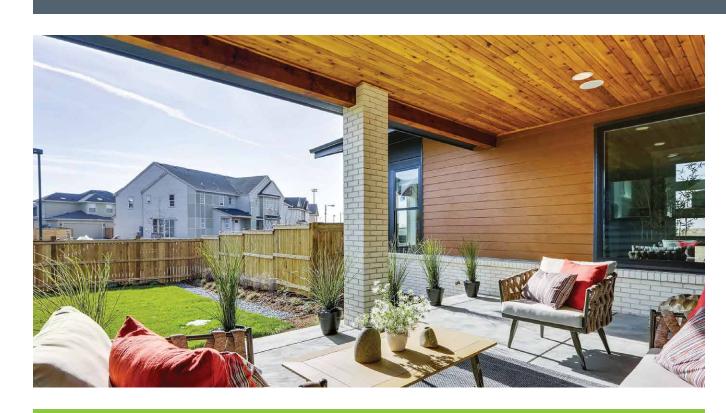
Thrive Home Builders

Panacea | Denver, CO | ThriveHomeBuilders.com















PROJECT DATA

• **Layout:** 5 bdrm, 4.5 bath, 2 fls + bsmt, 5,142 ft²

Climate: IECC 5B, cold
Completed: October 2017
Category: production

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

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KEY FEATURES

- **Walls:** Double wall of two 2x4 24" o.c. advanced framed walls with 2.5" gap. R-41 total: $\frac{1}{2}$ " drywall, 9.5" blown fiberglass, $\frac{7}{16}$ " OSB sheathing, house wrap, brick veneer and fiber cement siding.
- **Roof:** Gable roof; $\frac{7}{16}$ " APA-rated sheathing, synthetic underlayment, 40-mil self-adhering bituminous ice-and-water membrane, 30-year asphalt shingles.
- **Attic:** Vented attic, R-49 batt in cathedral and R-50 blown fiberglass on flat ceilings, 14" raised heel trusses.
- Foundation: Insulated basement, ½" 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.





