



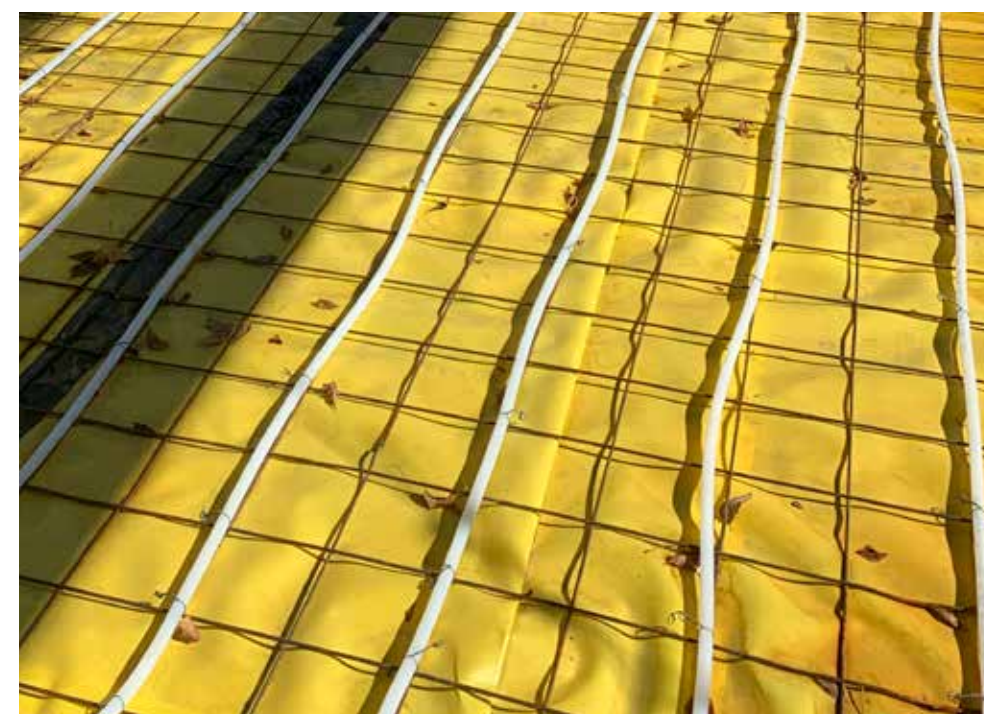
Philgreen Construction

L'Avenir Townhomes | Fort Collins, CO | PhilgreenCo.com



Photos courtesy of Philgreen Construction

"My favorite aspect of the home is all the natural light." Homeowner



PROJECT DATA

- **Layout:** 2 bdrm, 4 bath, 3 fls, 2,478 ft²
- **Climate:** IECC 5B, cold
- **Completed:** December 2020
- **Category:** Attached Housing

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 40; with PV -2
- **Annual Energy Costs:** without PV \$1,300; with PV \$0
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,950; with PV \$3,250
- **Annual Energy Savings:** without PV 16,100 kWh; with PV 27,100 kWh
- **Savings in the First 30 Years:** without PV \$79,300; with PV \$131,100

CONTACT

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KEY FEATURES

- **Walls:** Double wall, R-37 total: first floor double wall 2x6 + 2x4, upper two floors 2x6, 16" o.c., advanced framed 5.5" fiberglass, 5/8" coated OSB, 3" rigid rock wool, metal horizontal furring for air gap and attachment of terracotta tile siding.
- **Roof:** Rafter flat roof and shed roof: 14" I-joint, 5/8" OSB. Shed roof: self-adhered underlayment, Class 4 asphalt shingles. Flat roof: 2" tapered insulation, cementitious board, 80-mil TPO.
- **Attic:** Unvented attic: R-51 total: 3" R-21 closed-cell spray foam on underside of roof deck, 11" R-30 blown-in fiberglass to fill rest of netted I-joint cavity.
- **Foundation:** Insulated basement, 2" rigid foam on exterior over waterproofing.
- **Windows:** Double-pane, argon-filled, low-e2, motorized blinds, U=0.22, SHGC=0.34.
- **Air Sealing:** 2.43 ACH50, seal all nail holes, tape all joints, aerosol sealed whole house.
- **Ventilation:** ERV, MERV 10 filter at 2 air handler locations, 60 SRE, 69 ASRE, 50 ATRE.
- **HVAC:** Ground-source heat pump with 2 air handlers, 1 radiant floor, 4 COP, 18.4 EER.
- **Hot Water:** Ground-source heat pump for space and hot water, reverse indirect tanks, 4 COP.
- **Lighting:** 100% LED, motion sensors, skylights, high LRV wall and ceiling paint.
- **Appliances:** ENERGY STAR refrigerator, clothes washer, dryer.
- **Solar:** 7.13 kW/unit, 9.8 kWh battery. Passive solar design.
- **Water Conservation:** EPA WaterSense-certified home.
- **Energy Management System:** Smart thermostats, PV/battery system tied to utility rates.
- **Other:** EV charging. Accessible shower, framed for future elevator, low/no-VOC carpet, floors, cabinets, paint; shared electric car and electric bike.

