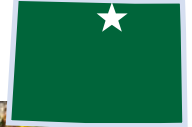


L'Avenir: Net-Zero Energy Townhomes featured on 'Heart of a Building'

Fort Collins, CO



Featured on Heart of a Building, a PBS production, L'Avenir offers net-zero luxury townhome-style condos in Ft. Collins, CO. Designed by Davis Davis Architect and built by PhilGreen Construction, each condo's energy usage is equal to the energy produced through the use of renewable and efficient technologies and design. All items sourced and selected for the project are sustainably and

eco-consciously made. With various partnerships, the 9,200 sq. ft. building features four units with a ground-level flex space, second floor living space, third-floor bedroom, electric bike and car-sharing for residents, GeoComfort geothermal heat pumps, and a solar PV array. L'Avenir is where comfort and style deliver in-harmony urban living.

INSTALLATION DETAILS

These townhouse-styled condos are built on 20-foot slab on grade with waterproof membrane and gravel. The walls are double insulated with 6-inch stud walls with blown in fiberglass insulation, weather resistant barrier, 3-inches of rockwool insulation, and terra cotta exterior finish (R-Value 30-33). The ceiling is insulated with spray foam and blown in fiberglass (R-Value 50). In the utility room on the ground-level a GeoComfort water-to-water geothermal heat pump unit and 65-gallon water heater, are installed with two air handlers







on each floor. True to GeoComfort's four-step process for net-zero homes, the high efficiencies, air-tight insulation, and the use of no fossil fuels are a key contributing factor to the net-zero capabilities, as well as the passive solar energy design and production. Additionally, these condos feature limited number of windows on east to west walls, french-styled windows on north walls for a connection to the outside, energy recovery ventilators, and practice night flash to let cool air flow through and vice versa.

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PROJECT DETAILS

Building Size:	9,200 sq. ft. Building (4) 2,300 sq. ft. Townhomes/Condos + 200 sq. ft. Basements
Loop Type:	Vertical
Geothermal Equipment:	GeoComfort Guide WW Variable-Speed Water-to-Water
Contractor / Installer:	Brian Fowler / Chris Butts
Solar Equipment:	79 - LG 375w panels Micro Inverters and Optimizers with LG battery backup
Utility Company:	Fort Collins Utility
Estimated Utility Bill:	\$0

-  CONSTRUCTION TYPE
New Construction
-  LOOP TYPE
Vertical
-  APPLICATION TYPE
Forced Air System
-  APPLICATION TYPE
Domestic Hot Water
-  SOLAR PANELS
79 Roof Mount
-  POWER PRODUCTION
37.7 kW

