



Haynes Construction

Crown Street | Meriden, CT | HaynesConstruction.com



Photos courtesy of Haynes Construction

"It's even more rewarding when you know every tenant is realizing significant energy savings, increased indoor air quality, and a sense of security in a high-performance home." *Builder*



PROJECT DATA

- **Layout:** 3 bdrm, 3 bath, 2 fls, 1,000 ft²
- **Climate:** IECC 5A, cold
- **Completed:** November 2020
- **Category:** Affordable Housing

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 31
- **Annual Energy Costs:** without PV \$1,400
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,950
- **Annual Energy Savings:** without PV 8,200 kWh
- **Savings in the First 30 Years:** without PV \$119,800

KEY FEATURES

- **Walls:** 2x6, 16" o.c., R-40 total: advanced framed, R-21 fiberglass batts in cavity, coated OSB sheathing taped, 4" R-20 XPS, extensive air sealing.
- **Roof:** Truss gabled roof: hot roof, architectural shingles, Cool Roof certified; extensive air sealing at demising walls between townhomes including attic demising walls.
- **Attic:** Unvented, 10.5: R-60 closed-cell spray foam under roof deck, 12" raised heel trusses.
- **Foundation:** Slab on grade: walk-out basement walls have closed-cell spray foam in wall cavities; garage-to-living space walls insulated with R-10 XPS and fully air sealed; floors of living space over garages separated with 14" truss joist filled with open-cell spray foam.
- **Windows:** Triple-pane, argon-filled, low-e, vinyl frame, hopper style, U=0.18, SHGC=0.40.
- **Air Sealing:** 0.5 to 1 ACH50; taped coated OSB sheathing, closed- or open-cell spray foam in floor joists, closed cell in attics; aerosol whole-house sealant used in apartments.
- **Ventilation:** ERVs; MERV 13 filter in ERVs, MERV 10 filter in air source heat pumps.
- **HVAC:** Ducted mini-split heat pump, 9.4 HSPF, 15.2 SEER.
- **Hot Water:** Gas tankless, 96 EF.
- **Lighting:** 99% LED, 1% CFL, motion sensors.
- **Appliances:** ENERGY STAR clothes washer and dryer, refrigerator, dishwashers.
- **Solar:** Solar installed for community spaces and outdoor electrical use.
- **Water Conservation:** Low-flow fixtures, drip irrigation, stormwater management.
- **Energy Management System:** N/A
- **Other:** EV charging; low/no-VOC flooring, paint, sealants, paneling; no smoking allowed.

CONTACT

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