



Photos courtesy of Habitat for Humanity North Central CT

"It has always been my dream to be a homeowner." Homeowner



## PROJECT DATA

- **Layout:** 4 bdrm, 1.5 bath, 2 fl, 1,612 ft<sup>2</sup>
- **Climate:** IECC 5A, cold
- **Completed:** March 2022
- **Category:** Affordable

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 34
- **Annual Energy Costs:** without PV \$1,450
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$600
- **Annual Energy Savings:** without PV 11,300 kWh
- **Savings in the First 30 Years:** without PV \$24,050

## CONTACT

Kris McKelvie  
860-541-2208 ext.2212  
construction@hfhnc.org

## KEY FEATURES

- **Walls:** 2x6, 24" o.c., R-29.5 total: R-23 mineral wool, R-6 coated sheathing, taped; vinyl siding.
- **Roof:** Truss gabled roof: ½" coated OSB, all seams taped; 2 rows membrane at eaves; drip edge; soffit and ridge vents. IBHS Fortified Roof certified.
- **Attic:** Vented attic: 17" R-60 blown cellulose at attic floor. 16" raised heel energy trusses.
- **Foundation:** Slab on grade: poured concrete stem walls. Vapor barrier and 2" XPS foam under slab. Sill seal.
- **Windows:** Triple-pane, argon-filled, low-e, vinyl frame, U=0.22, SHGC=0.23. Double-hung.
- **Air Sealing:** 1.5 ACH 50. Spray foam at all gaps, acoustic caulk on wood seams, 1" rigid foam on all exterior walls, all sheathing seams taped.
- **Ventilation:** ERV; separately ducted, SRE 75%. MERV 8 filter on air intake.
- **HVAC:** Ductless mini-split heat pump with 14 Btu/hr, 33 SEER; 2 indoor air handlers, and 1 outdoor compressor. Air transfer fans over bedroom doors.
- **Hot Water:** 50-gallon heat pump water heater, 3.45 EF, located in mechanical room.
- **Lighting:** 100% LED with motion sensors and daylight sensors.
- **Appliances:** ENERGY STAR dishwasher, refrigerator, clothes washer, clothes dryer.
- **Solar:** Solar ready; conduit in place from roof to inverter location.
- **Water Conservation:** Whole house is EPA WaterSense certified. Compact plumbing design. Rain gardens.
- **Energy Management System:** Smart ventilation; motion and daylight sensors.
- **Other:** No-VOC paint, flooring. Metal conduit in for future electric vehicle charging station.

