

Module Design

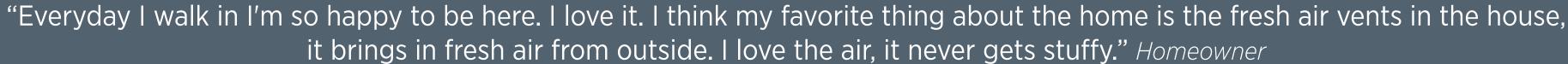
ZERO
ENERGY READY HOME

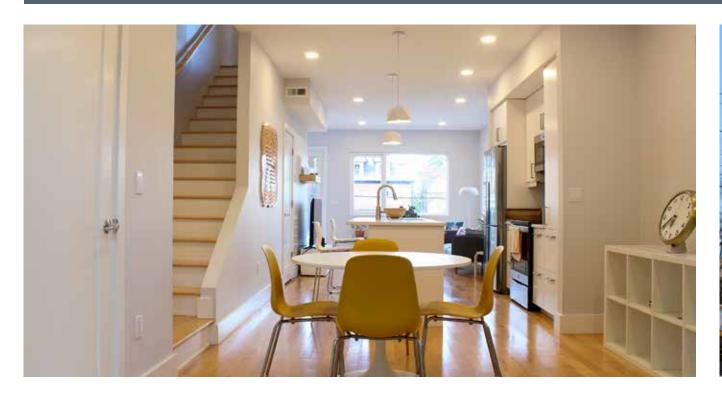
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PROJECT DATA

• **Layout:** 2 bdrm, 1.5 bath, 2 fls, 1,100 ft²

• Climate: IECC 5A, cold

• Completed: September 2020

Category: Custom Spec

MODELED PERFORMANCE DATA

• HERS Index: without PV 51

 Annual Energy Costs: without PV \$1,500

 Annual Energy Cost Savings: (vs typical new homes) without PV \$950

- Annual Energy Savings: without PV 6,800 kWh
- Savings in the First 30 Years: without PV \$38,400

CONTACT

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KEY FEATURES

- Walls: 2x6, 16'' o.c. + 1'' XPS, modular (each floor built in factory), R-28 total: R-23 rockwool cavity, $\frac{7}{16}''$ coated OSB, 1'' R-5 XPS, drain wrap, fiber cement lap siding.
- **Roof:** Truss gabled roof, 2x8 24" o.c., 5/8" OSB decking, self-adhered underlayment, standing seam metal roof.
- Attic: Vented attic: 17" R-53 fiberglass batt in ceiling cavity, 10" raised energy trusses.
- Foundation: Insulated basement: pre-cast concrete walls with integrated rigid foam and insulated concrete studs.
- Windows: Double-pane, argon-filled, low-e2, UPVC frame, U=0.21, SHGC=0.5.
- Air Sealing: 2.0 ACH50, tape, flashing, and sealants at all joints and openings.
- Ventilation: ERV, MERV 8 filters, 40 to 110 CFM.
- HVAC: Heat pump, 7.2 HSPF, 14 SEER, AC variable speed compressor, small-diameter high-velocity duct system with backup electric heat, ducts in conditioned space.
- Hot Water: Heat pump water heater, 50-gal, 3.45 UEF.
- Lighting: 100% LED, lighting controls integrated with energy management.
- Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer, ventless clothes dryer.
- Solar: Solar ready, 1" metal conduit from array location to electric service panel location.
- Water Conservation: Low-flow fixtures, central manifold with PEX piping.
- Energy Management System: Lighting controls, connected appliances, smart thermostat.
- Other: All electric home, Green Seal 11-certified natural maple flooring, Green Label Pluscertified carpeting in bedrooms, Green Guard Gold-certified paints, natural cedar siding.





