



# Bellingham Bay Builders

Fairhaven High Performance | Bellingham, WA | [BellinghamBayBuilders.com](http://BellinghamBayBuilders.com)



*Photos courtesy of Bellingham Bay Builders*

“Designed to optimize energy performance and provide a healthy indoor environment, and last for generations.” *Bellingham Bay Builders*



## PROJECT DATA

- **Layout:** 3 bdrm, 2.5 bath, 2 fl, 2,828 ft<sup>2</sup>
- **Climate:** IECC 4C, marine
- **Completed:** September 2017
- **Category:** custom for buyer

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 37; with PV 2
- **Annual Energy Costs:** without PV \$950; with PV \$150
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,250; with PV \$3,100
- **Annual Energy Savings:** without PV 18,100 kWh; with PV 28,000 kWh
- **Savings in the First 30 Years:** \$135,700

## CONTACT

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## KEY FEATURES

- **Walls:** 2x6 conventional framing, 5" blown-in fiberglass, coated taped OSB, 3" rigid mineral wool insulation on exterior,  $\frac{3}{4}$ " rain screen battens, fiber cement siding.
- **Roof:** Drywall, 1.5" spacers, taped OSB air barrier, 18" parallel chord trusses, two layers of R-30 fiberglass batts,  $\frac{5}{8}$ " roof sheathing, metal roofing.
- **Attic:** Vented vaulted ceilings with 2 layers of R-30 fiberglass batts (R-60 total).
- **Foundation:** Daylight basement - 4" R-16 EPS under slab; poly vapor barrier beneath slab and up below-grade walls; Interior walls 2x4 24" o.c. with batt. Total wall = R-25.
- **Windows:** Double-pane, low-e, composite frames, avg. U=0.25, SHGC=0.30.
- **Air Sealing:** 1.0 ACH 50.
- **Ventilation:** HRV, 116 CFM, 42.0 watts.
- **HVAC:** Ductless mini-split, 3 indoor heads, 23.0 SEER, 12.5 HSPF.
- **Hot Water:** Heat pump water heater; intake air ducted from vented garage attic, exhaust air ducted outside.
- **Lighting:** 100% LED, ENERGY STAR ceiling fan.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer, clothes dryer, heat pump water heater, and HRV.
- **Solar:** 8.96-kW PV system.
- **Water Conservation:** Low-flow fixtures, greywater diversion valve installed for future.
- **Energy Management System:** None.
- **Other:** Electric car charging station, salvaged kitchen cabinets.

