



Bellingham Bay Builders

Silver Residence | Maple Falls, WA | BellinghamBayBuilders.com



Photos courtesy of Bellingham Bay Builders

"I haven't looked at a thermostat since we moved in." Homeowner



PROJECT DATA

- **Layout:** 4 bdrm, 3 bath, 2 fls, 2,340 ft²
- **Climate:** IECC 4C, marine
- **Completed:** June 2023
- **Category:** Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 47; with PV -1
- **Annual Energy Costs:** without PV \$900; with PV \$100
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,350; with PV \$2,250
- **Annual Energy Savings:** without PV 9,350 kWh; with PV 20,350 kWh
- **Savings in the First 30 Years:** without PV \$56,800; with PV \$93,700

CONTACT

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KEY FEATURES

- **Walls:** 2x6, 16" o.c. + 1" cork, R-27 total: advanced framed, R-23 blown fiberglass, coated sheathing, liquid flashing, 1" cork insulation, wood furring, wood or metal siding.
- **Roof:** 3 roofs: gable truss roof vented; vaulted parallel-chord truss roof vented; flat-chord truss roof unvented. OSB sheathing; self-adhered underlayment; metal roofing or TPO membrane.
- **Attic:** R-60 blown fiberglass on flat ceilings, R-49 fiberglass batt on sloped ceilings and flat roof. R-23 BIBS fiberglass on attic kneewalls.
- **Foundation:** Vented crawlspace.
- **Windows:** Double-pane, U-0.27, SHGC-0.3, low-e4, argon fill, wood/aluminum frame.
- **Air Sealing:** 3.22 ACH50, liquid flashing of all seams and penetrations in walls and subfloor. Taped bottom plate. Ceiling sheetrock sealed to walls with acoustical caulk.
- **Ventilation:** Two HRVs, all ducts inside. Boost switches in bathrooms and kitchen.
- **HVAC:** Air-to-water heat pump for hydronic radiant floor heat, 10.5 HSPF, 3.08 COP. No AC.
- **Hot Water:** Heat pump water heater, 80-gal, 3.45 UEF. Ducted intake air from attic, ducted exhaust to outside. Both ducts insulated. Timer-controlled recirculation pump.
- **Lighting and Appliances:** LED lighting, all-electric ENERGY STAR appliances.
- **Solar:** 7.2 kW of PV, 14 kWh battery storage.
- **Other:** All-electric except wood-burning fireplace. One EV car charger.

