



Photos courtesy of Dwell Development

“Sustainable design should stand the test of time...” Dwell Development



PROJECT DATA

- **Layout:** 4 bdrm, 2.5 bath, 3 fls, 2,854 ft²
- **Climate:** IECC 4C, marine
- **Completed:** March 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 \$1,300
- **Annual Energy Savings:** without PV 10,900 kWh
- **Savings in the First 30 Years:** without PV \$55,000

CONTACT

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KEY FEATURES

- **Walls:** R-30 avg: double-2x4 walls with 10" blown cellulose and 2x6 24" o.c. walls with R-5.5" cellulose; ½" OSB, fluid-applied WRB. Rainscreen. Fiber cement & reclaimed wood siding.
- **Roof:** Flat roof: Non-vented R-50 to R-70 avg: 2x12 rafters, R-30 cellulose; ½" OSB, 3" to 6" R-20 to R-40 tapered polyiso, ¼" board, TPO membrane. Pitched roof: Non-vented R-70 to R-90 avg: 16" to 36" open-web trusses, R-50-70 blown cellulose, ½" OSB, 3" R-20 polyiso, ¼" hard board, asphalt shingles.
- **Attic:** No attic.
- **Foundation:** Slab on grade: 4" R-10 EPS under slab.
- **Windows:** Triple-pane, argon-filled, low-e, fiberglass tilt-and-turn frames, U=0.160, SHGC=0.270.
- **Air Sealing:** 1.76 ACH 50; whole-house aerosol sealant.
- **Ventilation:** HRV, continuous, MERV 13 filters.
- **HVAC:** Ductless mini-split heat pump, 10.3 HSPF, 19.7 SEER.
- **Hot Water:** Heat pump water heater, 3.55 EF, 50-gal.
- **Lighting:** 100% LED. Daylighting. Controls integrated with home automation.
- **Appliances:** ENERGY STAR refrigerator, dishwasher; induction cooktop.
- **Solar:** Solar ready.
- **Water Conservation:** EPA WaterSense fixtures; smart recirculation pump.
- **Energy Management System:** Wired for smart home automation.
- **Other:** Electric vehicle charging station, reclaimed recycled wood.

