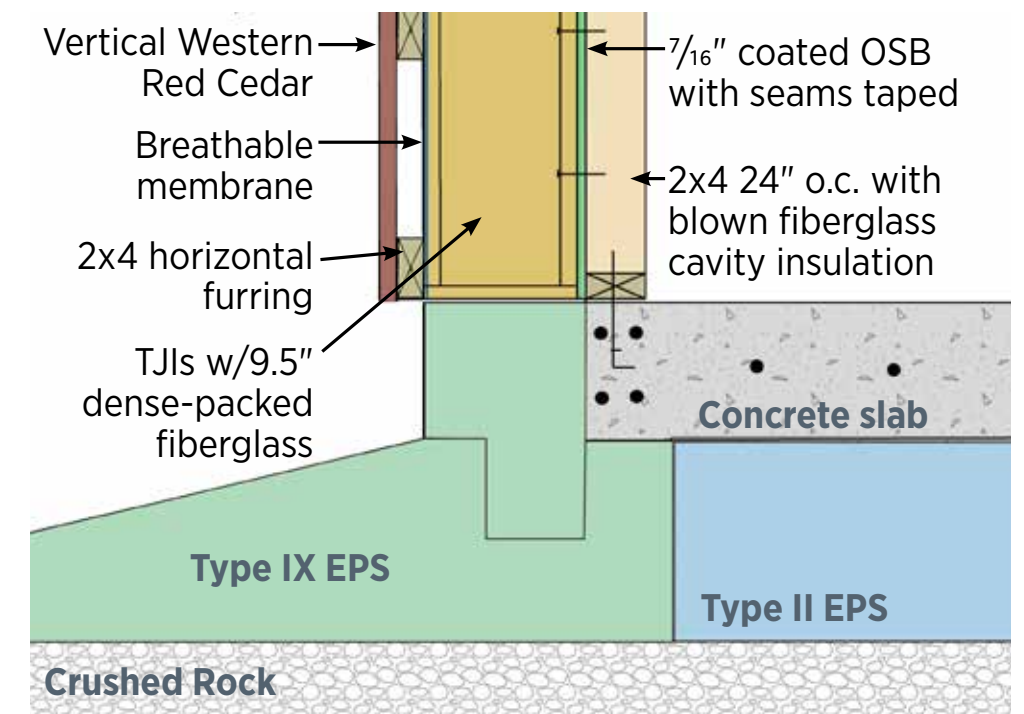




Photos courtesy of Energy Vision Homes

“We believe that designing and building DOE Zero Energy Ready Homes promotes stewardship of our natural resources.” *Builder*



PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl, 2,001 ft²
- **Climate:** IECC 5A, cold
- **Completed:** January 2021
- **Category:** Custom for Buyer <3,000 ft²

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 30; with PV -25
- **Annual Energy Costs:** without PV \$1,450; with PV \$200
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$3,900; with PV \$5,100
- **Annual Energy Savings:** without PV 14,100 kWh; with PV 28,400 kWh
- **Savings in the First 30 Years:** without PV \$157,900; with PV \$207,300

CONTACT

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KEY FEATURES

- **Walls:** 2x4, 24" o.c. + Larsen truss, R-48 total: advanced framed walls with 3.5" blown fiberglass, 7/16" coated OSB taped, TJIs with 9.5" dense-packed fiberglass held by breathable membrane, 2x4 horizontal furring behind vertical Western Red Cedar.
- **Roof:** Vaulted ceilings with scissor truss, 5/8" coated OSB sheathing with taped seams, high-temperature underlayment, standing-seam metal roof, Cool Roof-certified.
- **Attic:** Vented R-76 total: two layers R-38 fiberglass batt in bottom cord of scissor truss.
- **Foundation:** Slab on grade: 12" R-48 EPS under slab, 9.5" R-38 EPS at slab edge. 10-mil poly vapor air barrier.
- **Windows:** Triple-pane, argon, low-e, aluminum-clad wood, awnings, U=0.147, SHGC=0.33.
- **Air Sealing:** 1.49 ACH50, continuous air barrier from below slab to peak of roof: under-slab barrier connected to wall and ceiling membrane with tapes and sealants, all holes sealed.
- **Ventilation:** ERV, MERV 8 filter, 131 CFM, 157 Watts, 78% SRE.
- **HVAC:** Ducted mini-split heat pump, 2.9 COP, 17 SEER. Passive solar design.
- **Hot Water:** Heat pump water heater, 66-gal, 3.35 COP. All hot water lines insulated to R-4.
- **Lighting:** 100% LED, large floor-to-ceiling windows for daylight.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, 4 ceiling fans, exhaust fan, water heater.
- **Solar:** 11.5 kW, rooftop panels.
- **Water Conservation:** Low-flow fixtures, compact plumbing design, PEX piping.
- **Energy Management System:** N/A
- **Other:** EV charging; accessible shower, doors, and floorplan.

