



Deltec Homes and Old School Rebuilder & Co.

Custom Ridgeline F | Wilmington, NC | DeltecHomes.com



Photos courtesy of Deltec Homes

"We continue to enjoy our Deltec home every day. It's amazing!" Homeowner



PROJECT DATA

- **Layout:** 2 bdrm, 2 bath, 1 fl, 1,288 ft²
- **Climate:** IECC 3A, hot-humid
- **Completed:** March 2021
- **Category:** Custom for Buyer <3,000 ft²

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 50; with PV -21
- **Annual Energy Costs:** without PV \$850; with PV \$150
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,000; with PV \$1,650
- **Annual Energy Savings:** without PV 5,700 kWh; with PV 15,400 kWh
- **Savings in the First 30 Years:** without PV \$39,600; with PV \$66,200

CONTACT

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KEY FEATURES

- **Walls:** 2x6, 24" o.c., panelized, R-24 total: advanced framed, 5.5" cellulose in cavity, 5/8" plywood sheathing, 1" R-5 graphite EPS, drain wrap, fiber cement lap siding and trim.
- **Roof:** Truss monoslope: vaulted parallel chord 16" open-web trusses at 24" o.c., 5/8" plywood sheathing, synthetic roof underlayment, Cool Roof-certified asphalt shingles.
- **Attic:** Unvented, vaulted ceilings: 6" R-21 open-cell spray foam on underside of roof deck.
- **Foundation:** Slab on grade: R-10 rigid foam at slab edge + under perimeter to 3 ft total.
- **Windows:** Double-pane, argon-filled, low-e3, fiberglass-wood frames; U=0.27, SHGC=0.20.
- **Air Sealing:** 2.46 ACH50, open-cell spray foam at roof deck and rim joist; all plates, joints, and holes caulked; sill seal; gasket installed between plywood and framing at factory.
- **Ventilation:** Dehumidifier with fresh air intake tied to air handler; MERV 13 filter; bath fans.
- **HVAC:** Central air-source heat pump, 11 HSPF, 18.5 SEER, AC variable speed compressor.
- **Hot Water:** Heat pump water heater, 50-gal, 3.55 UEF.
- **Lighting:** 100% LED, 2 solar tubes, 6 clerestory windows.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer, heat pump dryer, bath fans.
- **Solar:** 7.2 kW, rooftop panels, passive solar design.
- **Water Conservation:** Low-flow fixtures. Hot water recirc. pump. Drip, predictive irrigation.
- **Energy Management System:** PV production and energy use tracking. Wi-Fi connected frig, water heater, oven. Smart thermostat. Water leak detection.
- **Other:** EV charging. Accessible doorways, handles, showers, sinks. Borate-treated lumber.

