



Habitat for Humanity South Sarasota Co.

The Venetian at Eldron | North Port, FL | HabitatSouthSarasota.org



Photos courtesy of Habitat for Humanity South Sarasota County

“We simply love our energy-efficient home!” Homeowner



PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl, 1,464 ft²
- **Climate:** IECC 2A, hot-humid
- **Completed:** November 2020
- **Category:** Affordable

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 45
- **Annual Energy Costs:** without PV \$750
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$800
- **Annual Energy Savings:** without PV 6,500 kWh
- **Savings in the First 30 Years:** without PV \$31,400

KEY FEATURES

- **Walls:** CMU walls insulated to interior with 3/4" EPS board, 3/4" furring strips, perforated foil insulation sheet, drywall.
- **Roof:** 2x8" borate-treated trusses, 5/8" sheathing, self-adhering underlayment, Cool Roof-certified asphalt shingles.
- **Attic:** Unvented, hot roof: 5.5" R-20 open-cell spray foam on underside of roof deck.
- **Foundation:** Slab on grade, uninsulated. All framing is borate treated for termites and mold.
- **Windows:** Double-pane, argon-filled, low-e, vinyl frame, single-hung, U=0.29, SHGC=0.19.
- **Air Sealing:** 2.24 ACH50.
- **Ventilation:** Controlled central fan with fresh air intake and timed exhaust, MERV 10 filters.
- **HVAC:** Central air-source heat pump, 9.0 HSPF, 17 SEER, AC variable speed compressor.
- **Hot Water:** Heat pump water heater, 50-gal, 2.35 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator, dishwasher.
- **Solar:** Solar ready.
- **Water Conservation:** EPA WaterSense-certified home, compact PEX plumbing, IFAS "Florida Friendly" landscaping.
- **Energy Management System:** Wi-Fi connected smart thermostat.
- **Other:** "Habitat Strong" disaster-resistant construction: can withstand 160-mph winds with truss-to-footer tie downs, extra nails on roof sheathing and shingles; impact-resistant windows and doors, fire-resistant stucco. Borate-treated lumber, and sealed soffits.

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