



Providence Homes

The Manatee | Jacksonville, FL | MyProvidenceHome.com



Photos courtesy of Providence Homes

"My 8-year-old son has asthma and it gives us such peace of mind to know Providence's mission is to build healthier, more energy-efficient homes." Homeowner



PROJECT DATA

- **Layout:** 5 bdrm, 3 bath, 2 fls, 2,749 ft²
- **Climate:** IECC 2A, hot-humid
- **Completed:** August 2020
- **Category:** Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 48; with PV 23
- **Annual Energy Costs:** without PV \$1,350; with PV \$600
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,100; with PV \$2,050
- **Annual Energy Savings:** without PV 9,350 kWh; with PV 15,750 kWh
- **Savings in the First 30 Years:** without PV \$45,500; with PV \$85,350

KEY FEATURES

- **Walls:** 2x6 24" o.c. R-21 total: advanced framed, R-21 fiberglass batt in cavity, 7/16" OSB sheathing, synthetic house wrap, fiber cement lap siding.
- **Roof:** Truss gable and hip roof. 7/16" OSB roof sheathing, synthetic underlayment, architectural shingles.
- **Attic:** Unvented, 5.5" R-22, open-cell spray foam on underside of roof deck and attic knee walls.
- **Foundation:** Slab on grade.
- **Windows:** Double-pane, U=0.34, SHGC= 0.22, vinyl frame, low-e.
- **Air Sealing:** 1.97 ACH 50: Foam sealant in rough openings around all door and window frames, at framing seams, and attic penetrations; foam sill plate gasket; drywall caulked to top plates; open-cell spray foam under floors over unconditioned space, at second floor rim joist, and in attic.
- **Ventilation:** Exhaust only, humidity sensors in bathrooms.
- **HVAC:** Central air source heat pump, 16 SEER, variable-speed with zoning.
- **Hot Water:** Heat pump water heater, 80-gallon, 3.53 EF, UEF 4.0, in garage. Smart recirculation pump.
- **Lighting and Appliances:** LED lighting, ENERGY STAR appliances.
- **Solar:** 5.85-kWh PV, 27-kW battery.
- **Energy Management System:** Energy monitor on electric panel for remote tracking of electric uses.
- **Other:** All electric homes.

CONTACT

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