



# Scott Norman and WATERSHED

First ZERH + Fortified Hurricane Home | Fairhope, AL | [WATERSHED.pro/projects](http://WATERSHED.pro/projects)



Photos courtesy of Scott Norman and WATERSHED

“The super-insulated home holds temperatures easily and doesn’t require much heating and cooling.” *Rebecca Bryant, WATERSHED*



## PROJECT DATA

- **Layout:** 3 bdrm, 3.5 bath, 2 fl, 3,542 ft<sup>2</sup>
- **Climate:** IECC 2A, hot-humid
- **Completed:** August 2021
- **Category:** Custom for Buyer

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 49
- **Annual Energy Costs:** without PV \$1,650
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,400
- **Annual Energy Savings:** without PV 9,250 kWh, 130 therms
- **Savings in the First 30 Years:** without PV \$117,900

## KEY FEATURES

- **Walls:** 2x6 (1st flr), 2x4 (2nd flr), 16" o.c., R-24 total: advanced framed, R-21 dense-pack cellulose, coated OSB with integrated 1/2" R-3.6 EPS; 1.5" air gap, 3-5/8" local brick.
- **Roof:** Rafter hip roof: 2x8 rafters, self-adhered membrane, architectural asphalt shingles.
- **Attic:** Unvented, vaulted attic, 10.5" R-38 open-cell spray foam on underside of roof deck, covers rafters and top plates.
- **Foundation:** Slab on grade, CMU footing filled with grout and waterproofed.
- **Windows:** Double-pane, argon-filled, low-e3, fiberglass, U=0.30, SHGC=0.19. Interior motorized blinds.
- **Air Sealing:** 1.6 ACH50; spray foam at top plates, band joists, and all penetrations.
- **Ventilation:** Supply-only, ventilating dehumidifiers to HVAC. MERV 11 filters.
- **HVAC:** Central air-source heat pump, 9.5 HSPF, 17.5 SEER; duct board trunk, flex branches.
- **Hot Water:** Tankless gas water heater, 0.93 EF, manifolds with PEX piping.
- **Lighting:** 100% LED, dimmer switches, automated window blinds.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer, clothes dryer, ceiling fans (5), exhaust fans (4).
- **Solar:** None; south-facing roof is shaded.
- **Water Conservation:** Whole house is EPA WaterSense-certified.
- **Energy Management System:** Drip irrigation, dimmer switches, humidity sensors.
- **Other:** Low-emission products.

## CONTACT

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