



S.D. Jessup Construction, Inc.

Rolling View Dr. | Tobaccoville, NC | SDJessup.com



Photos courtesy of S.D. Jessup Construction

"I know that I have left my clients with a more durable, efficient, comfortable, and healthy home than most any one has around." *Shawn Jessup, builder, SD Jessup*



PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl, 4,215 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** March 2017
- **Category:** custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 41, with PV NA
- **Projected Annual Energy Costs:** without PV \$1,850, with PV \$NA
- **Projected Annual Energy Cost Savings:** (vs typical new homes) without PV \$550, with PV \$NA
- **Annual Energy Savings:** without PV 14,400 kWh, with PV NA

CONTACT

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KEY FEATURES

- **Walls:** Double wall - two 2x4 16" o.c. walls with 10" R-40 blown fiberglass in cavity; coated 7/16" OSB with taped seams; interior smart vapor membrane.
- **Roof:** Coated, taped OSB; drip edge; asphalt shingles; cont. ridge vent.
- **Attic:** Vented; baffles sealed to top plates; R-57 blown fiberglass; raised heel trusses.
- **Foundation:** Basement pre-cast concrete walls with integral R-12.5 XPS rigid foam. Washed stone, 2" R-10 XPS foam, and 6-mil vapor retarder under slab. Radon vent. Sill plate sealed with sill seal, caulk, and spray foam. Band joist insulated to R-40 with closed cell spray foam.
- **Windows:** Vinyl-framed, low-e, argon-filled windows: double-pane U=0.30, SHGC=0.25; triple-pane (living room only) U=0.22, SHGC=0.25.
- **Air Sealing:** 0.8 ACH 50.
- **Ventilation:** ERV with MERV 8 filters and boost switch for bathrooms.
- **HVAC:** Air-source heat pump, 18 SEER, 9.5 HSPF, with variable-speed fan, 5-stage compressor, 11 MERV filter. All ducts inside.
- **Hot Water:** Air-source heat pump; 50-gal tank, 3.25 EF.
- **Lighting:** 95% LED interior, 100% LED exterior, motion sensor activated.
- **Appliances:** ENERGY STAR dishwasher, two ENERGY STAR ceiling fans.
- **Solar:** None.
- **Water Conservation:** Compact plumbing design, insulated hot water pipes.
- **Energy Management System:** Internet tracking of HVAC and energy use.
- **Other:** All low/no-VOC paints, finishes, glues. All insulation GreenGuard certified.

