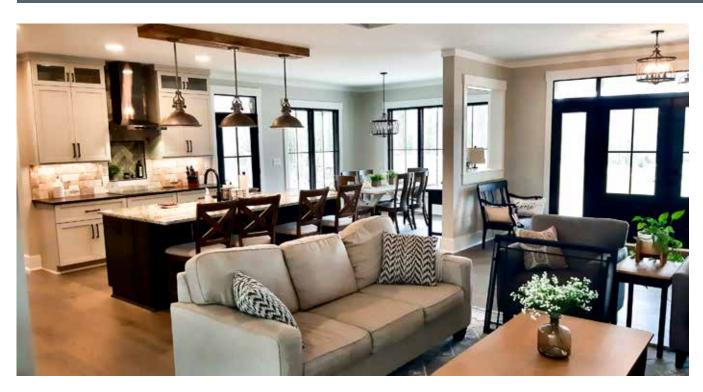


# S.D. Jessup Construction

Modern Farmhouse | Pilot Mountain, NC | SDJessup.com













### PROJECT DATA

• **Layout:** 4 bdrm, 4 bath, 2 fl, 3,630 ft<sup>2</sup>

• Climate: IECC 4A, mixed-humid

• Completed: February 2021

• Category: Custom for Buyer

#### MODELED PERFORMANCE DATA

• **HERS Index:** without PV 47

 Annual Energy Costs: without PV \$1,300

- Annual Energy Cost Savings: (VS typical new homes) without PV \$1,100
- Annual Energy Savings: without PV 13,350 kWh
- Savings in the First 30 Years: without PV \$44,800

## CONTACT

Shawn D. Jessup 336-368-1155 shawn@sdjessup.com

# **KEY FEATURES**

- Walls: 2x4 studs, 16" o.c., R-21.6 total: 2x4 studs, advanced framed, R-15 fiberglass batt, spray foam or XPS in some cavities; coated insulated OSB R-6.6; fiber cement siding.
- Roof: Rafter gable & shed roof: 2x6 or 2x8 rafters, 7/16" OSB; synthetic underlayment, selfadhered membrane in valleys and transitions. 30-yr asphalt shingles or metal roofing.
- Attic: Unvented attic: vaulted ceilings, 7.5" R-30 open-cell spray foam on roof deck.
- Foundation: Sealed, conditioned crawlspace, thermostat-controlled damper on supply ducts. CMU stem walls w/R-10.2 foam cores; 15-mil poly vapor barrier on floors and walls.
- Windows: Double-pane, argon-filled, low-e2, aluminum-clad wood, U=0.28, SHGC=0.19.
- Air Sealing: 0.993 ACH50; crawlspace sealed with 15-mil polyethylene and tape; foundation, sill plates, penetrations, and joints caulked; wall seams and holes taped.
- Ventilation: ERVs in crawl and attic, temp/humidity sensor, MERV 13 and 8 filters.
- HVAC: 2 ducted mini-split heat pumps, 10.8 HSPF, 18.9 SEER (main level) & 17.8 SEER (upstairs); liquid propane 41,000 Btu/h fireplace with battery backup for power outages.
- Hot Water: Heat pump water heater, 50-gal, 3.5 EF, leak detection, pipes insulated to R-3.
- Lighting: 90% LED, motion sensors, large windows and glass doors for daylighting.
- Appliances: ENERGY STAR refrigerator, dishwasher, 4 exhaust fans, freezer.
- Solar: PV ready, conduit in place.
- Water Conservation: Low-flow fixtures; compact PEX plumbing.
- Energy Management System: Smart monitors for energy usage and for indoor air quality.
- Other: During construction: no smoking or fuel burning in house, HVAC registers double sealed, active radon, portable dehumidifier, air filters on electric space heaters.





