

WHAT MAKES THIS HOME GREEN?



275 Bingham Ridge Dr., Pittsboro, NC 27312

THE DESIGN

- Southern orientation provides space heating & daylighting for reduced energy consumption
- Properly sized overhangs provide summer shading
- Public areas of the home sited on the south for optimum daylighting benefits, private spaces & utility spaces sited on the north & west
- Minimization of windows on the north and west for reduced energy consumption

THE ENVELOPE

- Air tight insulation systems using Icynene spray foam insulation for reduced energy consumption
- High Performance Low E windows for reduced energy consumption
- Sealed and dehumidified crawl spaces for reduced energy consumption & healthier indoor air
- Insulated fiberglass entry doors with Low E glass for reduced energy consumption
- Third party inspections during construction include a blower door test for house air tightness and a duct pressure test for duct air leakage and ensure reduced energy consumption
- Energy Star Certification qualifies home for 5% reduction on Progress Energy electric bills
- Lowered energy usage reduces carbon emissions

HEATING AND COOLING SYSTEMS

- High SEER HVAC system engineered for optimum comfort & efficiency
- Substantially reduced allergen and mold contact with the use of pleated air filters
- Engineered fresh air intakes for healthier indoor air
- Programmable thermostats for reduced energy consumption

SPECIAL SYSTEMS

- 2 KWh photovoltaic array with battery back up capable of providing 20% of the electricity needs of the home. Fully automated battery back-up operates critical functions during grid outages. Renewable Energy Tax Credits Available.
- Solar hot water system capable of providing 80-100% of the hot water needs of the home. Renewable Energy Tax Credits Available.
- Central bath exhaust system with electronic timers for reduced energy consumption
- Energy Star rated appliances for reduced energy consumption

MATERIAL CHOICES

- Cement Board Siding (Hardi Plank)
- Miratech composite trim materials
- Compact fluorescent lamping
- Formaldehyde-free Advantech sub flooring
- Low flow plumbing fixtures
- Slow start well pump for reduced energy usage
- Soapstone and concrete kitchen counter tops