

# WHAT MAKES THIS HOME GREEN?



98 Bingham Ridge Dr., Pittsboro, NC 27312

## THE DESIGN

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

## THE ENVELOPE

- Air tight insulation systems using open cell spray foam insulation for reduced energy consumption
- High Performance Low E windows for reduced energy consumption
- Sealed and dehumidified crawl space 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
- 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
- Formaldehyde-free Advantech sub flooring
- Formaldehyde-free custom cabinetry with low VOC water based lacquer finish
- Semi-solid interior doors with soy based formaldehyde-free core materials
- Low flow plumbing fixtures
- Choice Dek composite deck flooring
- All compact fluorescent and fluorescent lamping for reduced energy consumption