

Conservation is a state of harmony between men and land.
Aldo Leopold



MountainSide Home Builders is proud of its comprehensive effort for building homes that offer fabulous results for affordable energy management and green building solutions. It is not just about using sustainable materials and recycling efforts, though these things are important. It's also about the creation of an exciting in-home environment to easily control and conserve the use of energy, enjoy clean indoor air, and conserve water resources. The results are terrific for making a better environment by saving resources and money. Green is good!

Committed To Being **AWESOME!**





Rating Number: HERS 57

Certified Energy Rater: George Reynolds

Rating Date: _____

Rating Ordered For: _____

ESTIMATED ANNUAL ENERGY COST

| | |
|---------------------------|-------------------|
| Heating | \$193.00 |
| Cooling | \$96 |
| Hot Water | \$70 |
| Lights & Appliances | \$548 |
| Services Charges | \$102 |
| Annual Energy Cost | \$1,007.00 |

These estimates are intended only as a reasonable guide and are based upon energy usage given current utility rates and 68° (winter) and 72° (summer) thermostat control levels. Clearly, weather related variables and the occupants use and operation of electricity (lighting, televisions, appliances, etc) certainly can negatively affect the base estimates as noted herein, and MountainSide Homebuilders, LLC will not assume any liability for any cost variances.

Energy Performance & Rating Certificate...

General Information

Conditioned Area: 2267 sq. ft. House Type: Single-Family detached.
Conditioned Volume: 33000 cubic ft. Foundation: Enclosed crawl space.
Bedrooms: 2

General Information

Air-source heat pump: Electric, Htg: 9.0 HSPF, Clg: 15.0 SEER.
Water Heater: Heat pump, Electric, 3.00 EF, 50.0 Gal, R-8 wrap.
Duct Leakage to Outside: 60.00 CFM
Ventilation System: Balanced: ERV, 90 cfm, 50.0 watta.
Programmable Thermostat: Heating: Yes Cooling: Yes

Building Shell Feature

Ceiling Flat: R-48 Exposed Floor: R-38
Vaulted Ceiling: R-38 Window Type: PT 700
Above Grade Walls: R-20 **Infiltration:**
Foundation Walls: R-1.1 Rate: Htg: 2.00 Clg: 2.00 ACH50
Slab: None Method: Blower door test

Lights and Appliance Features

Percent Fluorescent Pin-Based: 0.00 Clothes Dryer Fuel: Electric
Percent Fluorescent CFL: 80.00 Range/Oven Fuel: Electric
Refrigerator (kWh/yr): 500.00 Ceiling Fan (cfm/Watt): 0.00
Dishwasher Energy Factor: 0.46

Certification Rating For:

Mr & Mrs John Dow
6931 Linkside Court
Brevard, North Carolina, 28277



GreenWay For Living™

We provide Estimated Annual Energy Costs & Estimated Annual Energy Consumption for your home.

Qualified homes include a variety of "tried-and-true" energy-efficient features that contribute to improved home quality and homeowner comfort, and to lower energy demand and reduced air pollution:

- **Effective Insulation** Properly installed and inspected formaldehyde free insulation in floors, walls, and attics ensures even temperatures throughout the house, reduced energy use, and increased comfort.
- **High-Performance Windows** Energy-efficient windows employ advanced technologies, such as protective coating and improved frames, to help keep heat in during winter and out during summer. These windows also block damaging ultraviolet sunlight that can discolor carpets and furnishings.
- **Tight Construction and Ducts** Sealing holes and cracks in the home's "envelope" within heating and cooling duct systems helps reduce drafts, moisture, dust, pollen, and noise. A tightly sealed home improves comfort and indoor air quality while reducing utility and maintenance.
- **Efficient Heating and Cooling Equipment** In addition to using less energy to operate, energy-efficient heating and cooling systems can be quieter, reduce indoor humidity, and improve the overall comfort of the home. When properly installed into a tightly sealed home, this equipment won't have to work so hard to heat and cool the home.
- **Efficient Products** Qualified homes may also be equipped with Energy Star qualified products such as lighting fixtures, compact fluorescent bulbs, ventilation fans, and appliances.
- **Third-Party Verification** With the help of independent Home Energy Raters, MountainSide Home Builders chooses appropriate energy-saving features for all homes. Additionally, raters conduct on site testing and inspections to verify the energy efficiency measures, as well as insulation, air tightness, and duct sealing details.



Bora-Care

Bora-Care is the industry's leading weapon against termites and mold. It is a surface protectant that kills all forms of fungi as it sanitizes and disinfects the treated area. Bora-Care is the industry's leading borate-based wood preservative, rendering treated wood as resistant to termites and other wood destroying insects, as well as wood decaying fungi. Bora-Care has been formulated to penetrate into the wood where it delivers residual protection for years.



Green Guard "RainDrop"

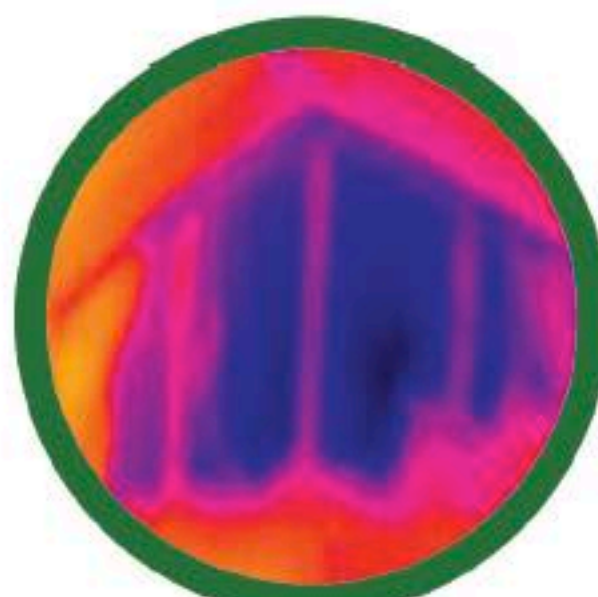
RainDrop's innovative drainage channels help keep water out of the wall system. The channels will not crimp, collapse, or flatten. This will ensure that water will drain, no matter how tightly the cladding is nailed to the wall. RainDrop is a recognized air barrier listed with www.airbarrier.org, and it has demonstrated water holdout capabilities in both industry recognized water resistance tests. This non-perforated wrap also breathes to allow moisture vapor to escape, improving indoor air quality.



Healthy Air Systems

More than 30 additional design and construction features are included in all homes to help protect you against moisture and mold, pests, combustion gases, radon, and other airborne pollutants in your home. Our homes can provide a more comfortable living environment.

- Controlling moisture and pests, among other things, can help protect your family by eliminating common allergens from entering the home, such as mold and pest residue. MountainSide Home Builders will provide a first line defense against pest like cockroaches and rodents, by fully sealing, caulking, or screening where pests enter your home.
- Your home will provide a more comfortable living environment because it includes properly engineered HVAC system sizing, improved duct and equipment installation, improved filtration, spot ventilation to dilute and remove indoor pollutants, and the use of formaldehyde free insulation products.
- The home provides protection from potential exposure to combustion pollutants by the installation of heating equipment that can prevent combustion gases and pollutants in the garage from entering your house. We include carbon monoxide alarms in or near all sleeping areas.



Energy Systems Analysis & Thermal Imaging

Testing of our homes provide you a rating that is prepared by an engineer. This Thermal Graphic Level 2 test provides you with an infiltration blower door test, and thermal imaging of the building envelope to ensure proper insulation and caulking installation.



Environmentally Friendly Green Home Building



LP® SmartSide®

These siding products deliver the beauty of cedar, plus the durability and workability of engineered wood. LP SmartSide siding products are engineered with a proprietary SmartGuard® process to help protect against fungal decay and termites.

- LP uses SFI® certified forest management and procurement systems, which help ensure the wood comes from well managed forests
- Raw material procurement targets small, fast growing trees
- In LP's manufacturing process, no part of the log goes to waste
- Only low-emitting, safe resins are used as a binder
- Minimizes job site waste; absence of knots helps reduce scrap woodpiles; longer product lengths reduce the number of pieces needed and superior durability means less material lost to breakage



Foil Backed Roof Sheathing

Radiant Barrier plywood helps reduce energy consumption by reduction of radiant heat from the roof from entering the attic. This keeps the attic cooler, lowers energy costs and makes the home more comfortable. A certified ENERGY STAR® product, this sheathing reduces air conditioning bills and often reduces the tonnage needs of the HVAC system.

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Geyser Heat Pump Water Heater

By choosing the Geyser Heat Pump Water Heater you can save money from the first day over typical water heaters. With energy prices going up, you want a system that will save you money. You can also reduce your carbon footprint by using Geyser Heat Pump Water Heater. The Geyser System also naturally dehumidifies the indoor environment, reducing the chance for mold and mildew growth.

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