



STANDARD GREEN FEATURES

Nappier & Turner Construction Co., Inc. builds 100% of its homes to meet the requirements of the NC Healthy Built Home, the EPA ENERGY STAR and WaterSense programs. Our mission is to provide a quality home that is healthy to live in, energy and resource efficient, and comfortable at a fair price. We believe that building green is the responsible thing to do for our customers, our community and the environment.

SITE DEVELOPMENT

- Extensive erosion control site plan. All stumps and limbs on site are ground for mulch to be used for erosion control and trails.
- Much of the timber removed during site development is sent to the lumber mill. Poplar bark was removed to be used as bark single siding.
- Native plants and grasses are used throughout.
- A minimum of 12 trees are planted per acre of developed land.
- Communities are within 1/2 mile of a business district with banking, grocery, shopping and restaurants.



ENERGY EFFICIENCY & COMFORT

- 92% high efficiency gas furnace
- 13 SEER air conditioners
- HVAC equipment located in conditioned space
- R-410A refrigerant used that does not deplete ozone like conventional refrigerant used in the air conditioner condenser.
- ENERGY STAR rated programmable thermostats with multiple set points.
- ENERGY STAR rated Low-E windows with solar heat gain and thermal heat resistance suited to our climate.
- Complete insulation of the building envelope of the home including the slab. All homes must pass a thermal bypass inspection by a third party inspector.
- Extensive air sealing to limit air and moisture infiltration of the home. HVAC ducts are sealed using duct mastic to ensure less than 5% duct leakage (compared to 15-20% for typical homes). Every home is third party tested to ensure that they meet the ENERGY STAR criteria for air infiltration and duct leakage.
- All walls adjacent to attics are insulated and sealed with rigid insulation board to reduce heat gain and air infiltration.
- High efficiency water heater with all hot water pipes insulated and system design to reduce the amount of heat loss and water waste.
- Compact fluorescent light bulbs used throughout the home
- All can lights are air-tight and insulation contact rated to not create gaps in the building envelope.



INDOOR AIR QUALITY

- Low-VOC and non-toxic paint used that meets Green Seal standards.
- Low-VOC carpet certified by the Carpet & Rug Institute
- Fresh air ventilation system installed to recycle stale air.
- HVAC ducts are covered until construction is completed to keep debris and dust out of the system.
- Carbon monoxide detector installed in mechanical equipment area.
- Passive radon soil gas vent installed and pre-wire complete for fan if necessary. Radon test are completed prior to home occupancy.
- Borate termite treatment applied that eliminates need for chemical termite treatment.



WATER EFFICIENCY

- All homes are built to meet the requirements of the EPA WaterSense Program.
- Plumbing manifold system used to dedicate a hot water line to each plumbing fixture to decrease wait time for hot water and wastes less water.
- Kohler Eco-Smart, comfort-height toilets installed that use 1.28 gallons per flush.
- WaterSense labeled kitchen and bathroom faucets
- ENERGY STAR dishwashers installed that use less water and energy.
- Landscape design based on WaterSense guidelines that limit turf to 40% of landscapable area. 100% of non-paved areas are drought resistant thru use of native plants and grasses.

RESOURCE EFFICIENCY

- Construction waste is diverted through our waste management plan and construction waste recycling efforts. We recycle all of the following waste through Consolidate Waste Services:

-Untreated Wood	-Concrete	-Metal
-Masonry	-Cardboard	-Paper
-Plastic	-Glass Bottles	-Shingles
- Framing Efficiency Package utilized to use less wood in unnecessary areas and to increase insulation coverage.
- Panelized wall system used that reduces framing waste and exposure to weather.
- Cellulose insulation used that is made from recycled newspapers.
- Concrete has a minimum of 25% fly ash (by-product of coal power plants) that makes concrete stronger, more durable, and more resistant to chemicals.
- Recycled carpet pad used under all carpets.
- Shaw carpet with N6 nylon specified that can be returned to the manufacturer and recycled into new carpet.
- Flooring options that include cork and bamboo, rapidly renewable resources.
- Interior trim made from medium density fiberboard.

