



*A Great Way of Life.*

## NAHB

# Rouse Chamberlin Homes Compliance with the NAHB Green Building Program

### I. Lot Design, Preparation and Development

1. Select the site
  - Select the site to minimize the environmental impact
  - Avoid environmentally sensitive areas
2. Minimize slope disturbance
  - Limit development on steep slopes
  - Complete a hydrological/soil stability study for steep slopes and use it to guide the design of all structures onsite
  - Align road or extended driveway with natural topography to minimize its grade
  - Reduce long-term erosion effects
3. Maintain wildlife habitat
4. Develop the site
  - Minimize environmental intrusion during construction
  - Provide onsite supervision to ensure that targeted practices are implemented
5. Conserve existing onsite vegetation
  - Minimize disturbance and damage to trees and other vegetation designated for protection by installing fencing and avoiding trenching, significant changes in grade compaction of soil, and critical root zones
  - Prepare designated existing trees and vegetation for the impacts of construction through pruning, root pruning, fertilizing, and watering.
6. Minimize onsite soil disturbance and erosion
  - Designate limits of clearing and grading
  - Create "no disturbance" zones using fencing or flagging to protect vegetation and sensitive areas from construction vehicles, storage and washout
  - Install and maintain sediment and erosion controls

- Stockpile and cover good soil for later use
- Reduce soil compaction by laying mulch, chipped wood or plywood sheets
- Stabilize disturbed areas within the EPA recommended 14-day period
- Improve the soil with organic amendments and mulch

## II. Resource Efficiency

1. Create an efficient floor plan that maintains the home's functionality
2. Use advanced framing techniques that reduce the amount of building material with maintaining the structural integrity of the home
3. Use building dimensions and layouts that maximize the use of the resources by minimizing materials
4. Use building materials that require no additional finish resources
5. Use pre-cut or pre-assembled building systems or methods
6. Provide a covered entry at exterior doors to prevent water intrusion and subsequent rotting of joists, sills and finishes
7. Install perimeter drain for all basement footings
8. Install drip edge at eave and gable roof edges
9. Install gutter and downspouts to divert water 5 feet away from foundation and from there into the overall onsite drainage area
10. Divert surface water from all sides of the building
11. Provide a water-resistive barrier behind the exterior veneer or siding
12. Dedicate and provide onsite areas for the sorting and reuse of scrap building materials
13. Conduct onsite recycling efforts
14. Recycle construction waste offsite (e.g. wood, cardboard, metals, etc.)
15. Use certified wood and wood-based materials and products from credible 3<sup>rd</sup> party sources
16. Use products that contain fewer resources to do the same job as traditional products

### III. Energy Efficiency

1. The home is equivalent to the most stringent energy code
2. Heating and cooling systems loads are calculated using an approved method
3. 3<sup>rd</sup> party review to verify the design and compliance with the Energy Efficiency guidelines
4. The size, design and installation of the duct system uses an approved method
5. The performance of the heating and cooling system has been verified
6. The HVAC installer and service technicians have been certified by a nationally or regionally recognized program
7. Seal ducts to reduce leakage
8. Water heating equipment complies with appropriate energy factor per gallon
9. Install manifold plumbing system using smallest diameter piping allowed by code
10. Install ENERGY STAR labeled appliances
11. Third-party inspection to verify installation of energy-related features

### IV. Water Efficiency

1. ENERGY STAR water-conserving appliances have been installed
2. Water efficient showerheads with a flow rate of <2.5 gpm have been installed
3. Water efficient sink faucets <2.2 gpm have been installed
4. Ultra low flow toilets (<1.6 gallon/flush) have been installed

### V. Indoor Environmental Quality

1. Direct vent equipment and induced/mechanical draft combustion equipment has been installed for vented space heating and water heating equipment
2. Space heating and water heating equipment has been installed in isolated mechanical room or closets with an outdoor source of combustion and ventilation air
3. A tightly-sealed door has been installed between the garage and the living area

4. HVAC outlets have been masked during construction and the ducts have been vacuumed before turning on the HVAC
5. Special filters have been installed on central air or ventilation systems
6. All exhaust flows have been verified to meet design specifications
7. Moisture resistant backerboard has been installed under tiled surfaces in wet areas
8. Unused moisture-sensitive materials have been stored in a dry area
9. Plumbing supply lines have been kept out of exterior walls
10. HVAC ducts in unconditioned basements have been insulated to avoid condensation

## VI. Operation, Maintenance, and Homeowner Education

1. Provide Home Manual to buyers on the use and care of the home
2. Provide education to buyers about the building's goals and strategies and their impacts on costs of operating the building and for all control systems in the home

## VII. Global Impact

1. Low or no-VOC indoor paints have been used