



Asheville, NC

**Osada Construction**  
**[www.Osadaconstruction.com](http://www.Osadaconstruction.com)**

- **Overall Description:** This efficient cottage, with 1,260 square feet of space, in the Villages of Crest Mountain received Platinum NC GreenBuilt Home certification. On-site solar energy systems, rainwater collection, and extensive use of low-impact products make this a showcase of green features.

- **Energy Efficiency:** Earning a 19 HERS rating, this home is made efficient through spray foam insulation in the walls and attic. It is heated through radiant floor heating, and cooled through ductless mini-split air conditioning. A 5 kilowatt solar electric system is expected to generate 6,700 kWhs of clean energy per year.

-**Resource Efficiency:** Cabinets made from locally milled wood were used in the home.

- **Water Efficiency:** Rain chains allow for water to fall from the roof in a gentle manner, but most of the rainfall is collected in a rainwater collection system for use in irrigation on the site.

- **Site Work:** Minimal impact was done to the 0.06 acre lot. Permeable pavers reduce run-off and allow for rainfall to permeate into the ground.

- **Indoor Air Quality:** Spot ERVs (energy recovery ventilators) provide fresh air exchange, while the use of low VOC finishes minimizes off-gassing of noxious chemicals, resulting in optimal air quality.