



THE BUILT GREEN HOME AT SUNCADIA OVERLOOKS THE 13TH HOLE ON THE PROSPECTOR GOLF COURSE.

# FIVE STAR GREEN

A SUNCADIA RESIDENCE ACHIEVES THE PINNACLE OF SUSTAINABLE DESIGN

WHEN DEVELOPER BRENDA NUNES purchased a lot in Central Washington's growing Suncadia development in June 2004, she wanted to create a beautiful custom home that would showcase the possibilities of green building techniques and materials.

"I had been involved in green building from the site-development angle and saw Suncadia as an opportunity to tell a story," Nunes says. "Building green just makes sense. It's a holistic way of quality building—looking at all of the components and building a home that is durable, easy to maintain, environmentally friendly, resource-efficient and healthy."

In June 2006, her dream was realized with the completion of the Built Green™ Home at Suncadia. The 3,000-square-foot home contains a wide variety of environmentally friendly materials, including energy-efficient appliances and light fixtures; tiles, counter tops and sinks made from recycled materials, paints and finishes that emit low levels of volatile organic compounds (VOCs); and wood products such as flooring and cabinets certified by the independent nonprofit Forest

Stewardship Council (FSC). Landscaping is drought tolerant, and porous pavers allow stormwater runoff to absorb into the ground.

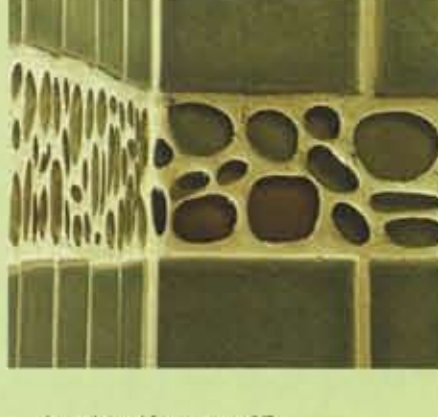
Designed by architect Richard Fisher, AIA, and built by Grey Lundberg of Bellevue's CMI Homes (cmihomes.com), the home meets the highest standards of the Built Green program (builtgreen.net). Developed by the Master Builders Association of King and Snohomish Counties, the program is a voluntary one- to five-star certification system that reflects the environmentally friendly building practices used during a home or development's construction. Achieving five-star status means the home saves water and energy; uses recycled, durable and low-maintenance materials; and meets indoor air-quality standards.

The Built Green home is Energy Star-certified and uses 15 to 30 percent less energy than a typical Northwest home, which means it makes fiscal sense too. Energy-saving additions to the home include:

- Geothermal heat pump that provides energy-efficient heating (including radiant floor heating) and cooling, and improves indoor air quality through constant circulation. (continued on page 91)

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56 | PROMOTION



(continued from page 87)

- Energy-Star qualified washer and dryer, kitchen appliances, natural gas furnace, water heater and compact fluorescent lighting
- Foam insulation and insulated concrete forms for the foundation and wine cellar
- Energy-efficient windows and patio doors, pre-finished off-site
- Dual-flush toilets

The house opened for tours in June, and drew more than 3,000 visitors in the first two months. In addition, the home will be included on the Kittitas Valley Tour of Homes, September 15-17 (cvhba.org). Information cards posted throughout the house highlight its green features and increase awareness about how easy and economical it is to build green.

Other attention-grabbing features:

- Recycled tiles from Ambiente Tile and the Environmental Home Center
- EcoTimber Australian chestnut floors
- Cork flooring in the upstairs reading loft

Suncadia (suncadia.com), owned by subsidiaries of JELD-WEN, PacTrust and Lowry Enterprises, is a 6,300-acre resort community near Roslyn, Washington, 80 miles east of Seattle. Adjacent to the 22-million-acre Wenatchee National Forest, Suncadia is a four-season resort with three championship golf courses, biking and cross-country-skiing trails, a spa, sports center and conference facilities. All private homes within the community will meet or exceed three-star Built Green standards.

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Counter Culture

As seen in the BUILT GREEN HOME AT SUNCADIA

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56 | PROMOTION

## green design at suncadia

### ONE WITH THE LAND

The Built Green™ home at Suncadia meets the highest standards of the program, inside and out, as well as high standards for great design.

Trees removed from the site before construction were used to make exposed interior and exterior columns, the fireplace mantle and three bathroom vanities. Engineered lumber products made of recycled waste wood were used for many floor beams and roof rafters.

The home also features long-lasting, low-maintenance natural cedar siding and durable Montana Rockworks natural stone veneer trim. "You can't beat cedar siding for its ability to resist rot and weather," says builder Grey Lundberg of CMI Homes.



FSC-Certified Tigerwood Decking, sustainably produced in Brazil, can last 25 years, from **Environmental Home Center**; (206) 682-7332, [environmentalhomecenter.com](http://environmentalhomecenter.com).

Drought-tolerant landscaping uses native plants and requires minimal maintenance and irrigation, installed by **CMI Homes**; (425) 644-9595, [cmihomes.com](http://cmihomes.com).

The rear patio is made from Uni Eco-Stone® Porous pavers ([uni-groupusa.org](http://uni-groupusa.org)), which allow rainwater and snowmelt to drain naturally.

## Looking for Attractive, Energy Efficient Lighting?

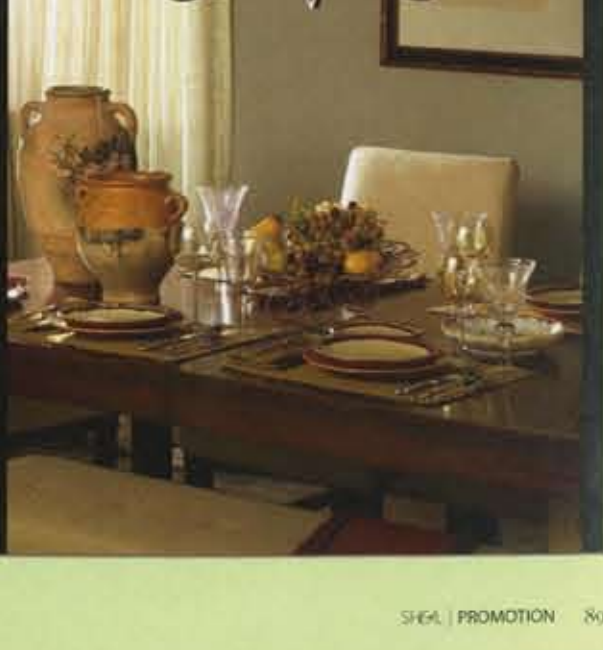
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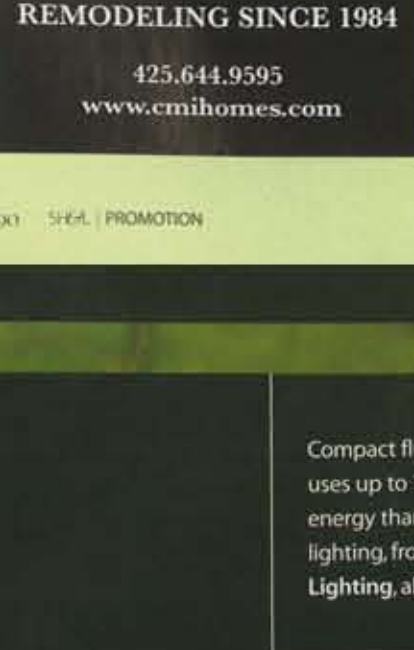
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56 | PROMOTION

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Northwest-made light fixtures feature fluorescent bulbs and energy-saving dimmers to reduce energy consumption, from [rejuvenation.com](http://rejuvenation.com), (206) 382-1901.

The glass mosaic backsplash was crafted from locally produced materials by artist Diana Maxum, from [acapelladesign.com](http://acapelladesign.com).

Walls throughout the home are painted with low-VOC Horizon paints by Rodda ([roddapaint.com/ps\\_horizon.asp](http://roddapaint.com/ps_horizon.asp)) to improve indoor air quality.



Kitchenette cabinets are made of alder, a renewable resource, from **Pacific Crest Cabinets**; (253) 529-8692, [pacificcrestcabinets.com](http://pacificcrestcabinets.com).

The KitchenAid drawer dishwasher uses 33 percent less energy than federal guidelines require, from **Whirlpool**, [insideadvantage.com](http://insideadvantage.com).

Chemically inert and low-maintenance concrete counter tops are durable and non-toxic.

### LOFTY AMBITIONS

The multi-purpose loft suite sits above a two-car garage, connected to the house by a timber breezeway. Inside the 560-square-foot space are an entertaining kitchen, dining area, media center and three-quarter bath. Above the sink, a glass mosaic depicts the snow-capped peaks of the nearby Stuart Range. Ceramic wall tile and porcelain floor tile—made from at least 50 percent recycled post-industrial waste—line the loft's guest bath. KitchenAid Energy Star-qualified appliances from Whirlpool include a dual fuel range and drawer dishwasher. Locally produced materials, such as alder cabinets, contribute to the Built Green design. Using local products reduces the effect of transportation on the environment—air pollution and fuel consumption.

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Compact fluorescent lighting uses up to 75 percent less energy than incandescent lighting, from **Alexander Lighting**; [alexanderlighting.com](http://alexanderlighting.com).

Oceanside glass tiles (Harvest 108) contain up to 85 percent recycled glass, primarily from residential curbside recycling, from **Ambiente Tile**; (206) 524-2113, [ambientetile.com](http://ambientetile.com).

The KitchenAid Energy Star-qualified two-drawer dishwasher uses 33 percent less energy than federal guidelines require, by **Whirlpool**, [insideadvantage.com](http://insideadvantage.com).

Nell Chestnut kitchen cabinets are manufactured using formaldehyde-free resins and are pre-finished off-site with low-VOC water-based finishes to improve indoor air quality, from **Environmental Home Center**; (206) 682-7332, [environmentalhomecenter.com](http://environmentalhomecenter.com).

Amber Pearl IceStone counter tops contain 75 percent recycled glass in a cement matrix, from **Ambiente Tile**; (206) 524-2113, [ambientetile.com](http://ambientetile.com).

EcoTimber Australian chestnut engineered wood floors are FSC certified to be sustainably produced, from **Environmental Home Center**; (206) 682-7332, [environmentalhomecenter.com](http://environmentalhomecenter.com).



### GET COOKING

An open floor plan connects the large kitchen to the dining area and great room with views of the adjacent Prospector Golf Course. With ample floor and counter space, the kitchen is designed for activity and maximum maneuverability. A wide IceStone counter top extends into a bar, a focal point in the L-shaped floor plan. KitchenAid appliances include a dual fuel range, wall canopy hood and Energy Star-qualified built-in refrigerator, which uses 15 percent less energy than federal guidelines require. The Sun Valley Bronze farmhouse-style sink was hand crafted in the Northwest.

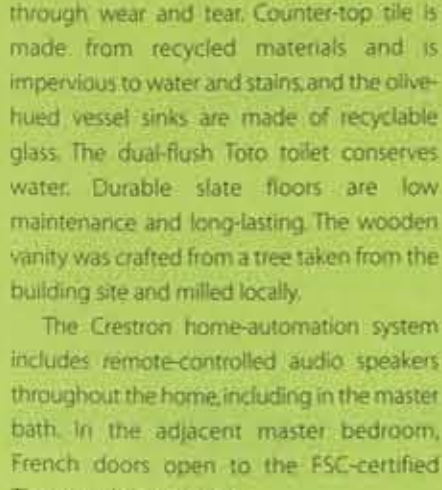
Audio, air-quality and security are covered by a Crestron home-automation system from **The Music Room**; (800) 774-9099, [TheMusicRoom-online.com](http://TheMusicRoom-online.com).

Wood products are stained and finished off-site to reduce indoor air pollution.

Walls are painted with low-VOC Horizon paint by Rodda ([roddapaint.com/ps\\_horizon.asp](http://roddapaint.com/ps_horizon.asp)) to minimize indoor air pollution.

### PRIVATE SCREENINGS

In the media room, comfort, convenience and green living coincide. Residents lounge in front of a 50-inch plasma screen television with surround sound. The Crestron full-home automation systems include security, HVAC and audio/visual controls, and can be programmed to heat or cool the home only when owners are home. Everything can be controlled on-site or remotely via the Internet. "You can use it to monitor your energy consumption," explains developer Brenda Nunes.



### BATHED IN GREEN

Like all rooms in the Built Green home, the master bathroom is designed to last through wear and tear. Counter-top tile is made from recycled materials and is impervious to water and stains, and the olive-hued vessel sinks are made of recycled glass. The dual-flush Toro toilet conserves water. Durable slate floors are low maintenance and long-lasting. The wooden vanity was crafted from a tree taken from the building site and milled locally.

The Crestron home-automation system includes remote-controlled audio speakers throughout the home, including in the master bath. In the adjacent master bedroom, French doors open to the FSC-certified Tigerwood deck outside.



The Carol Hall-designed custom glass Fish Vanity Sconce features compact fluorescent light bulbs, from **Alexander Lighting**; (206) 624-7357, [alexanderlighting.com](http://alexanderlighting.com).

The antique-style bathtub is made from recycled copper.

Eco-Terrazzo recycled tile is made from stone debris and recycled glass chips and has more than 80 percent recycled content.

46 | PROMOTION