

EXTERIOR BREAKDOWN



"We want our home

show visitors their solar panels before they show them the granite. Or show them the dual-flush toilets that conserve. It's important to get people to see that it's not just a green house. It's not a plain Jane house. And the most important benefits of owning it are energy efficiency and durability.— Jon Pleveich, builder, shown here with co-builder Kim Foy

The team chose Azek deck and ceiling products because they are durable, made from 30% postindustrial waste, and don't require additional resources staining, or sealing. www.azek.com

The metal roof, manufactured

The team spec'd 5" of spray foam insulation in the attic, which tightly seals the house. Spray foam offers an added benefit of saving on www.icynene.com





The HardiePlank fiber-

The roof is decked with 5/8" plywood as opposed to OSB. This thicker, heavier material won't deteriorate if it gets wet. The team uses ring shaped nails and nails 6" on edges and 6" in the field. The additional nails and their strategic placement means that under pressure the roof is less likely to come up. The company is doing a customized tie down system from Simpson Strong-Tie to secure roof trusses and the floor system. www.strongtie.com

> > Use the whole lot. The architect used every square foot of the long narrow lot. A beautiful outdoor patio and summer kitchen graces the backyard. The motor court doubles as parking and overflow space for larger parties. The double-deck porch on the front of the house forges a connection to the neighborhood while providing additional space for relaxing. Make sure to make your porches deep enough to accommodate chairs and a table.

TIPS FROM

> Consider alternatives to stick

frame. "ICF block is changing

the way we're building houses

now," says Pleveich. Not only is

the R factor higher in ICFs, but

they go up very quickly, which

saves money on labor. "Everyone

says. "But It took an ICF crew of

four men only three days to put

up the first story."

thinks it's more expensive," he

> Use multiple entries. While the front door is the main entry to the home, a homeowner might opt to use the private side door, which offers convenient access to a mudroom, powder room, and easy access to the kitchen. The accessory building at the rear of the site has its own entry via a spiral staircase, which means guests can come and go without disturbing people in the main house.

> Innovate for memory points. Add special touches to the house that don't break the bank. The porch railings for this house were created by a local metal fabricator out of stock hog wire fencing from the local Tractor Supply Co.

> Wire for electric cars. Florida is a leader in electric car infrastructure planning, so it made sense to run a 220V line for a charging station. Even if you don't provide a charging station, it may pay to run a 220V line to future-proof your homes.

by Fabral www.fabral. com and installed by Neal heating and cooling costs installation and durability. such as priming, painting, Strickland Roofing www. buyers] to by up to 50% because of nealstricklandroofing.com, has its air sealing properties. an acrylic-coated Galvalume first and finish. Its color has an IR (initial foremost reflectivity) of .68, which is one of the highest IR color ratings. It is installed over Resisto's Lastobond Pro HT-S underlayment, which waterproofs the roof deck and can withstand extremely high temperatures. www.resisto.ca

The SolPak Active Water Heating System by Rheem is a must-have for sunny Florida. The high-efficiency closed loop, active water heating system features a Lifetime Marathon tank. www.rheem.com

The modern aluminum and glass garage doors are from the Avante Collection by Clopay. The product has a 2 1/8" thick rust-proof aluminum frame. The team picked a white frame with obscure tempered glass. www.clopavdoor.com

The Enduro exterior metal spiral staircase adds urban style to the guest house. The standard kit can be ordered taller or shorter and is made from 12-guage steel with a hot-dipped galvanized finish. www.arkestairs.com

The team spec'd Anderson 100 Series windows, which are a cost-effective way to add high-efficiency glazing to a project. The product is made of Fibrex, which is a sustainable structural composite that blends the best attributes of wood fiber and polymer. Much of the wood fiber is reclaimed from the company's milling operations. www. andersenwindows.com

To protect the house against storm damage, the team spec'd MetalTech's Dura-Weld Colonial Shutters which are engineered to surpass the strictest hurricane standards. Made of hand-crafted aluminum construction, they have a welded master frame. a durable powder coat paint finish, and clear polycarbonate backing. www metaltech com

The building team felt that ARXX Prime ICFs enable significant energy savings, security, and a faster build than conventional construction. www.arxx.com

The edible landscaping includes tantalizing options such as tangerine, lemon, and pineapple guava. St. Johns Water Management www.sjrwmd.com will certify the house to Florida Water Star's Gold level. Landscape consultant Teresa Watkins helped the team choose resource-efficient landscaping. The grass is perennial peanut from Blodgett Gardens www.blodgettgardens.com



more about the VISION House Orlando, .WWW OT Og 10 greenbuildermag.com and visit the Vision House section.

Scan here to learn

INTERIOR BREAKDOWN: FIRST FLOOR



To help provide fresh air, Lechuza self-watering planters are a low maintenance option. The planter system can take care of plants for up to 12 weeks with its water storage and nutrient sub-irrigation system. www.lechuza.com



DeNova engineered stone in Armadillo

Alto tops the cabinets in the kitchen. The

product consists of 93% natural quartz and



"It's a great thing when you can marry good design with classic style. It's even better when the design includes items that are locally sourced, have good indoor air

quality, or are made from materials that are renewable or sustainable. I call that a real win-win situation."—Pat Gaylor, interior designer Continuing the urban farmhouse feel in the kitchen, Gaylor chose the galvanized Wire Guard Pendant from Barnlight Electric www. barnlightelectric.com. She used lighting fixtures from this company throughout the house for continuity in style. She spec'd Cree's Ecosmart LED soft white lights. These LEDs have an integrated trim that fits most standard and shallow 6" cans, are dimmable, don't contain mercury, don't get hot, and last up to 15 years. www.creelighting.com

The gas fireplace from Escea www.escea.

co.nz/ is a direct vent to outside, which

warms the house but keeps odors out.

Mohawk's Queenstown 07 Hickory Vintage wood floor is reclaimed from dismantled buildings and structures. Full of texture, the flooring brings antique natural beauty to interiors. The product is engineered as well. The reclaimed hardwood is bonded to a no-added-urea formaldehyde substrate called Columbia Forest Product's PureBond, which doesn't offgas. www.mohawkflooring.com

The KitchenAid KIBU568SBL induction technology

heats the pan and not the cooktop surface, which

offers fast heating speed, precise control, and

or go to www.

House section.

Scan here to learn more about the VISION House Orlando, greenbuildermag.com and visit the Vision

TIPS FROM THE PROS

- > Consider a galley kitchen. The central kitchen is a galley to make cooking more efficient. It is designed to encourage people to congregate around the space like they would in a bar in a restaurant. From behind the island, you can see 180 degrees into the living areas.
- > Keep it flexible. Architect Binkley designed the space for ultimate layout flexibility. "You could get rid of every interior wall and use folding doors or rolling walls and screens to divide the space-you could personalize it for how you live," he notes. For example, the dining room and family rooms in this plan could be flopped if a home buyer wanted to connect the dining area to the outdoor "summer kitchen."
- > Include quiet space. Scaled down, enclosed, and intimate, the chat room provides a quiet place to converse while at the same time being part of what's going on in the house. Interior designer Gaylor turned this space into a semiopen home office, where a homeowner could pay bills or work without having to completely retreat from the scene. The space could also be used as a parlor where intimate conversations can take place.
- > Consider indoor air quality. Including green components in your home isn't just about recycling or durability, it's also about good air quality. which is important today as allergies and asthma rates continue to rise. In this house, engineered wood with a noadded formaldehyde substrate. countertops that don't offgas. no-VOC paint, live plants that provide oxygen, Energy Starrated exhaust fans, and plenty of windows to let in fresh air, are some of the components that let homeowners breathe a little easier.

INTERIOR BREAKDOWN: SECOND FLOOR

Cope Closet Concepts' closet system was chosen because it uses solid hardwood to manufacture closet shelving. Wood component parts, such as connectors and supports, use stock material not used in the manufacture

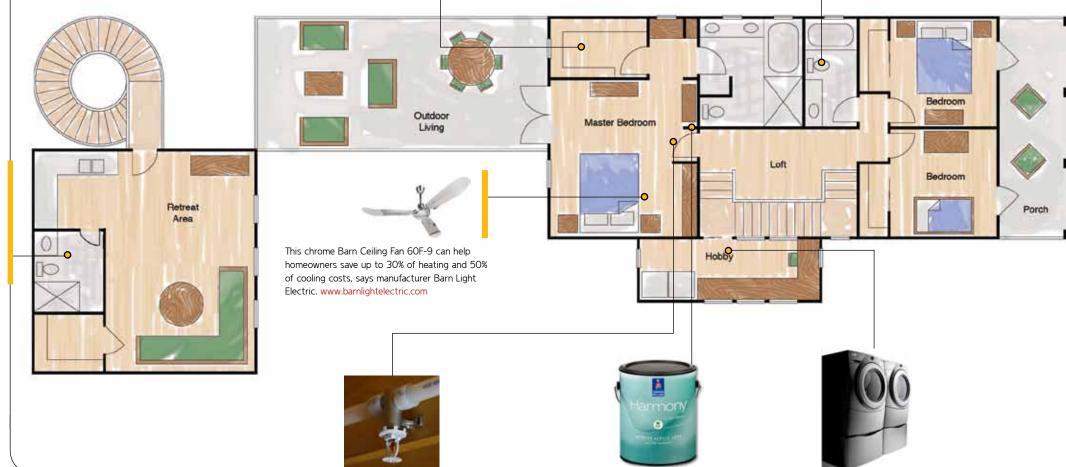
of shelving, which minimizes wood waste. The wood is finished with a water-borne formula. The company collects waste sawdust to be used on farms as compost. www. copeclosetconcepts.com To maintain good air quality in the house, the team put in Panasonic's WhisperGreen Energy Star-rated exhaust fans, which are lead free and mercury free and can run for more than a year using the equivalent energy of a 4W light





Gaylor spec'd Kohler faucets throughout the house because they offer sophisticated style and are WaterSense qualified. Shown here is the K-647-VS Purist Rite-Temp pressure-balancing bath and shower faucet. www.savewateramerica.com





"The upstairs is an extension of social space—another area in a relatively small house where you can have different experiences and different places to go and enjoy. The guest space above the garage is

another such space and has a multitude of uses. It could be a rec room or a home office or a place for college kids to come and go." —Ed Binkley, architect

The house is protected against fire by Uponor's Aquasafe Residential Fire Safety System. While sprinkler systems are not commonly used in Florida, builder Pleveich points out that about 34 states have made it mandatory. "It's a really good idea," he says. "It's not that much of an up charge, and it's one of those things that will help home buyers save money on insurance." www.uponor.com

The house is painted in Sherwin-Williams Harmony no-VOC paint www.sherwinwilliams.com. The main color used throughout the home is Accessible Beige. Coordinating Hunter Douglas Architella honeycomb blinds are Daisy White. They are not only attractive, but they also provide insulative value. www.hunterdouglas.com

The laundry room boasts a Whirlpool Duet front-load washer and dryer pair. The energyefficient Duet dryer features an innovative 6th Sense technology that helps keep clothes looking newer longer. The Energy Starqualified washer has a CEE Tier 3 rating. Steam enhancements help remove stains. www.insideadvantage.com

Scan here to learn more about the VISION House Orlando, or go to www. greenbuildermag.com and visit the Vision

House section.





TIPS FROM

- > Consider an accessory building. Because today's lots can be tight or irregular, it may make sense to use an accessory structure to house some functions that would normally be in the main house. The VISION project includes a 576-square-foot retreat over the garage that can be used as a recreation room, rental unit, guest quarters, or home
- > Use every square foot. Architect Binkley used space halfway up the stairs for the laundry and craft room. The room has openings to the stairwell, which adds daylight to the stairwell as well as the loft area.
- > Provide flexibility. Mimicking the flexibility of downstairs where the living room and dining room could potentially switch places, the upstairs master can be either in the back of the house (as shown) or flopped with the two bedrooms at the front of the house to have more connection with the street.
- > Remember indoor air quality. Many people opt for wood floors downstairs and carpet upstairs for both cost and comfort reasons. It is important to use a green carpet choice, such as Mohawk's SmartStrand, so the material doesn't offgas. Use bathroom fans, such as Panasonic's Whisperlight, to provide ventilation, and offer brochures about furniture that doesn't offgas to your home buyers. Interior designer Gaylor recommends Young America www.youngamerica.com and Martha's Vineyard www. mvfurnitureco.com.



BEHIND THE **SCENES**

A Sense of Place



Crafting good solutions to life's wily situations is all about context. For example, you can use the same spoon to stir cream into your coffee as you do to blend fertilizer into your planting soil. You just need to do it in the right order. Designing and building a green home requires this kind of context. The benefit of an efficient house is greatly diminished if a homeowner doesn't know how to live sustainably in that home.

Furthermore, the sustainability of a home isn't defined only by the green products and systems within it. Sustainable living doesn't end at the building envelope or even at the lot's

edge. A truly green home exists in balance with the natural environment, seamlessly connected to its community. The VISION House Orlando, located in the charming community of College Park, responds contextually to its surroundings. This "urban farmhouse" blends the serenity of country living with a colorful metropolitan aesthetic. Its advanced green technologies and upbeat design bolster the neighborhood's value and sustainability.

As a community, College Park epitomizes a trend in the housing market toward smaller, walkable neighborhoods. These desirable, mixed-use communities are located close to public transportation and amenities such as schools, shopping areas, and restaurants, enabling homeowners to reduce their environmental impact by limiting the need for long drives and commutes.

For more information about the VISION House Orlando, visit the VISION House pages at www.greenbuildermag.com or email us at info@greenbuildermag.com.



Sara Gutterman sara@greenbuildermag.com

VISIT THIS HOUSE AT IBS!

Visit the completed VISION House Orlando while you are at the International Builders Show. Tours runs January 12-15, and transportation will be provided from the Orange **County Convention** Center. Stop by the Green Builder Media booth (W4671) or email Heather: heather@ greenbuildermag.

HEALTHY CHOICE

he VISION House team didn't stop the sustainability at the energy story or the products, it continues the education by showing people how they can live better in their green home. With today's tight houses, minimizing the amount of chemicals brought in after the house is complete is important.

Gaylor researched the green furniture options and found a company that had collections suitable for the entire VISION house: Martha's Vineyard.

The company's products are made out of reclaimed materials and domestically made in family-run workshops. The company's Olive Street line boasts cushions filled with 100% post-consumer





PATH TO SAFETY

he Blueprint for Safety Education Program mission is to provide residential builders and citizens with accurate, current and reliable information about how to make homes more disaster-resistant. The VISION House team adhered to the program when building this year's house. The Blueprint for Safety Field Manual supports the mission by offering information about how to build, remodel or restore homes

using disaster-resistant techniques, technologies and products.

This website includes references for additional learning; however, it is not intended to replace the counsel of registered architects, engineer, or licensed contractors. For information regarding the Blueprint for Safety Education Program or any other Federal Alliance for Safe Homes program, call 877-221-SAFE, log onto www.flash.org or email flash@flash.org.

A SPECIAL THANK YOU TO OUR SPONSORS

- > Andersen www.andersenwindows.com
- > Arxx www.arxx.com
- > AT&T www.att.com/business and www.att.com/prontoforms
- > Beam www.beamvac.com
- > Cope Closet www.copeclosetconcepts.com
- > Daltile www.daltile.com
- > DeNova Surfaces www.denova.com
- > Fabral www.fabral.com
- > Icynene www.icynene.com/products

- > James Hardie www.iameshardie.com
- > Kohler www.savewateramerica.com
- > Masco www.masco.com
- > Merillat www.merillat.com
- > Mohawk www.mohawkflooring.com
- > Panasonic www.panasonic.com/building
- > Rheem www.rheem.com
- > Uponor www.uponor-usa.com
- > Whirlpool www.insideadvantage.com























the dream kitchen for the real world.



Panasonic ventilation



JamesHardie

THE VISION HOUSE TEAM WOULD LIKE TO THANK THE FOLLOWING ORGANIZATIONS FOR THE DONATION OF LABOR, CONSULTING, OR PRODUCTS.

- > Azek www.azek.com/azek-rail
- > Arke Stairs www.arkestairs.com
- > Barn Light Electric www.barnlightelectric.com
- > Blodgett Gardens www.blodgettgardens.com
- Clear Water Products and Services www.clearwaterpsi.com
- > Clopay www.clopay.com
- > Cree www.creelighting.com
- > Department of Energy www.doe.gov
- > Escea www.escea.com
- > FLASH www.flash.org

- > Hunter Douglas www.hunterdouglas.com
- > Lechuza www.lechuza.com
- > Martha's Vineyard Furniture www.mvfurnitureco.com
- Metal Tech www.metaltech.com
- > Neal Strickland Roofing nealstricklandroofing.com
- > Orlando Utilities Company www.ouc.com > Sherwin-Williams www.sherwin-williams.com
- > Simpson Strong-Tie www.strongtie.com
- > St. Johns Water Management www.sjrwmd.com

BEHIND THE **VISION**

Here are the details on this ground-breaking sustainable show home.

he VISION House Orlando 2011 is a new home that Green Builder Media constructed with partners Southern Traditions Development www.southerntraditionsfl. com, ed binkley design www. edbinkleydesign.com, and Designs by Pat Gaylor www. patriciagaylor.com.

The project incorporates the essentials of sustainable design and construction and includes education and training for building professionals and consumers about green building products and techniques, as well as broader aspects of sustainable living.

Visit the VISION House Orlando '11 pages for case studies, videos, articles, and other important information. To learn more about green design and construction, visit Green Builder College ww.greenbuildercollege. com, our online educational platform, which offers a comprehensive curriculum about sustainable development.



Scan here to learn more about the ReVISION House Orlando, or go to

greenbuildermag. com and visit the Vision House section.