

# GreenBuilder®

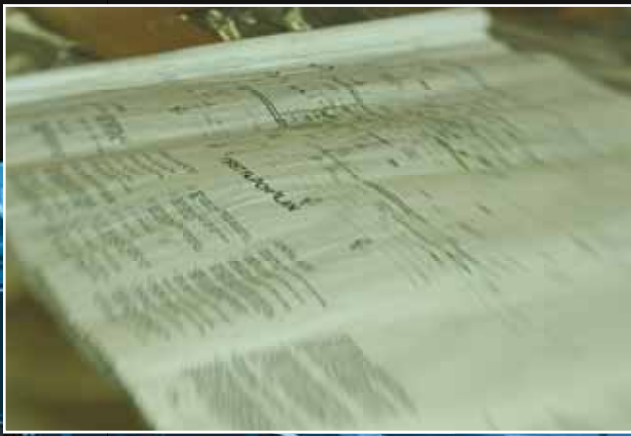
## VISION HOUSE LOS ANGELES BEHIND THE WALLS

As our West Coast demonstration home nears completion, here's a sneak peak at 25 products that put it on the leading edge of innovation.



**Also in this issue: Disney Goes Green**

A first-hand account of the Earth Day grand opening of our new *Epcot*® exhibition.



# VISION HOUSE Los Angeles

# PRODUCT SHOWCASE

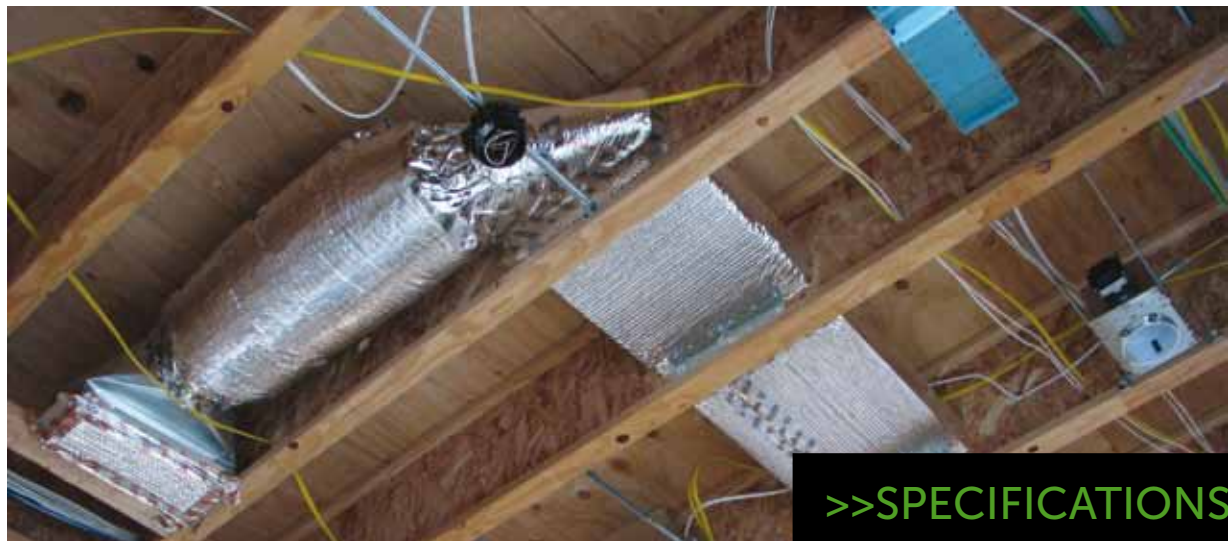
>> As Structure Home puts the finishing touches on our VISION House® Los Angeles project, here's a sneak preview of the many eco-friendly products that together make this demonstration home a model of performance, durability and indoor air quality. We'll have full coverage of the home in our July issue, when all of the finish work is complete. >>

BY CHRISTINA BIRCHFIELD

## Certification and Verification Goals for VISION House® Los Angeles

- Leadership in Energy and Environmental Design (LEED) Certification
- California ENERGY STAR Certification
- California Advanced Homes Program (CAHP)
- California Home Energy Efficiency Rating System (CHEERS) Verification
- Cal-Green (Tier 2)
- WaterSense-Certified Products
- VHLA will surpass the minimum Title 24 requirements by 30%





# Boise Cascade BCI Floor Joists

**B**oise Cascade *BCI* floor joists support VISION House® L.A.'s floors. Boise's engineered wood products are stronger, more reliable, and when installed, use 50% less wood than ordinary lumber. Using Boise's engineered wood products is a more efficient use of valuable natural resources.

### >>SPECIFICATIONS>>>>

- Forest Stewardship Council (FSC)
- Sustainable Forestry Initiative (SFI)
- Program for Endorsement of Forest Certification (PEFC)
- National Association of Home Builders (NAHB)



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for more information  
on this product.

VHLA Application

All Floors



VHLA Application

Roof and Gutters

### SPECIFICATIONS



- Standing-seam metal is a long-lasting roof solution
- Steel-bonded metallic coating assures durability
- ULTRA-Cool technology by PPG reflects 70% of the sun's energy
- Reduces cooling costs by 20%
- Meets Energy Star requirements

# Custom-Bilt Metals Titan Cool Roof

**T**itan *Cool Roof* standing-seam metal roof saves money and lasts longer than many other roofing systems. The steel roof features steel-bonded metallic coating with ULTRA-Cool technology by PPG. Colors like the weathered copper used on VISION House® L.A. reflect up to 70% of the sun's energy in both visible and UV light, reducing cooling costs by 20%. *Cool Roof* meets Energy Star requirements. Custom-Bilt gutters complement the roof.

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### SPECIFICATIONS

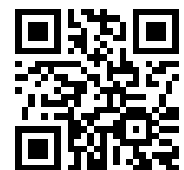


- Solid surface is easy to keep clean
- Heat and scratch resistant

## DuPont Zodiaq

**H**eat and scratch resistant, DuPont *Zodiaq* is an engineered solid-surface material made with pure quartz crystals. It scores seven on a hardness scale, compared to 10 for diamonds. Its non-porous surface does not require sealants or waxes, and cleanup is easy with a damp cloth or non-bleach, non-abrasive cleaners. Colors used in VISION House® L.A. include Snow White and Crema Marfil, along with one of the line's newest colors—Coarse Pepper.

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VHLA Application

Kitchen; Bathroom

www2.dupont.com/Surfaces

### VHLA Application

## Complete Suite of Kitchen Appliances

# Gaggenau Kitchen



**V**ISION House® L.A. is fully outfitted with a Gaggenau dream kitchen suite. First, there's a refrigerator tower with stainless-steel interior, wine storage with separate temperature controls for white and red wines and a water-sensing dishwasher. The suite also includes a combi-microwave oven, combi-steam oven, warming drawer, gas cooktop, induction cooktop and a teppanyaki cooktop. A powerful wall-mounted ventilation hood clears the air, and a coffeemaker with built-in grinder completes the scene.



### >>SPECIFICATIONS>>>>>>

- Cooling and cleaning appliances are Energy Star certified
- Five-year warranty

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www.gaggenau-usa.com



# GreenRock Landscape Decorative Rock

**G**reenRock landscape decorative rock is derived from 100% recycled concrete. Color and texture is a special blend of concrete roofing tiles, concrete paving stones and concrete blocks recycled from damaged unused materials. Depending on size, the landscape rock can be either a ground cover or a paver base.

## SPECIFICATIONS

- 100% recycled concrete
- Available in fine (3/8") or coarse (3/4") sizes
- Also available in paver base, as a less energy intensive alternative to decomposed granite

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VHLA Application

Pathways and Patios



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# Honda Fit EV

**H**onda *Fit EV* is a pure electric vehicle. Honda says the vehicle is dedicated to "blue skies for our children." The five-passenger car with fold-down rear seats features a three-mode driving system—normal, sport and ECON (economy mode). The vehicle can go as many as 123 city miles with a three-hour charge, and emits no tailpipe emissions. The car comes with a smartphone *HondaLink* for monitoring its energy use—and locating the nearest charging station.

VHLA Application

Parked in the  
Driveway or  
Garage

## SPECIFICATIONS



- 20 kWh lithium ion battery
- Charges in as little as three hours
- City driving range: 123 miles
- *HondaLink* smartphone monitoring system



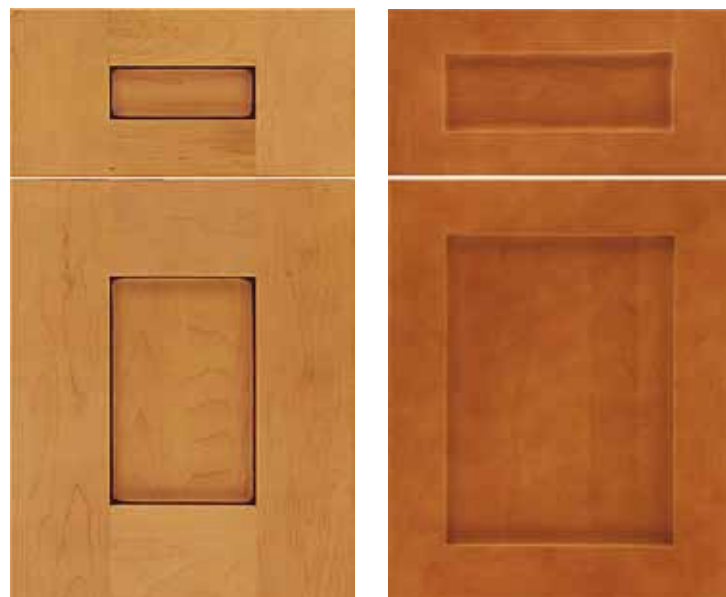
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# Kitchen Craft Cabinetry

**K**itchen Craft cabinets in a variety of styles and finishes provide storage throughout the kitchen, bathrooms and mudroom/laundry room of VISION House® L.A. The styles include classic Shaker influences and contemporary. Finishes range from a coffee bean-like espresso to hand-brush glazed and high-gloss white. A certified member of the Kitchen Cabinet Manufacturers Association's (KCMA) Environmental Stewardship Program (ESP), Kitchen Craft uses environmentally responsible materials and low-emission coatings.



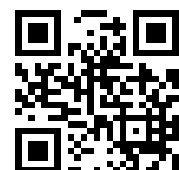
### VHLA Application

Kitchen; Master Bathroom; Three Other Baths; Mudroom/Laundry

### SPECIFICATIONS



- Kitchen: Door styles Plymouth and Pamli in Maple Espresso, Palermo and Alumina Door with Frosted Glass finishes
- Master Bathroom: Pamli door style in Palermo finish
- Bathroom two, three and five: New Haven door style and Maple Espresso finish
- Mudroom/laundry: Calvi and Terni door styles in Gloss White and Plymouth Maple Espresso Alumina doors with Frosted Glass finishes



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# Kohler Generator

**K**ohler Generators for grid-connected electric systems provide just-in-case peace of mind. VISION House® L.A. features a 20-kW generator that can be powered by propane or natural gas. The generator includes a 100-amp automatic transfer switch. The switch monitors utility power usage. At the first sign of an outage, the switch automatically and safely transfers power from the utility to the generator.



### VHLA Application

Located Outside the Home: Whole House Capability

### SPECIFICATIONS



- 20-kW generator
- 100-amp automatic power transfer switch
- Operates on propane or natural gas
- Available with Remote Monitoring/OnCue Home Generator Management System



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on this product.

VHLA Application

Master Bathroom

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# Kohler Plumbing Fixtures

The Kohler Reve toilet is EPA WaterSense certified. The Reve elongated one-piece toilet features dual-flush technology. The flush can be either .8 or 1.6 gallons. A .8-gallon toilet can save as much as 6,000 gallons of water annually, compared with a 1.6-gallon flush toilets, and saves as much as 16,500 gallons a year compared to an older, 3.5-gallon model.

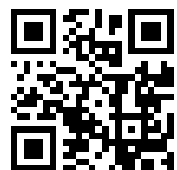


## SPECIFICATIONS



- Dual flush option
- Qualifies for EPA's WaterSense program
- Saves 6,000 gallons compared to 1.6-gallon toilet and 16,500 gallons compared to 3.5-gallon toilet
- Elongated bowl
- Quiet-Close seat
- May be eligible for consumer rebate

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VHLA Application

Throughout  
the House; Car  
Charger

# Leviton Electric Car Charging Station and Lighting Control

Part of energy saving is monitoring lighting use. Control systems used in VISION House® L.A. include a universal dimmer that, unlike many other dimmers, controls either LED- and CFL-dimmable bulbs. An occupancy sensor switches lights on and off automatically. Mini-meters measure electrical consumption or production, and the *Evr-Green Level 2 Car Charger* enables fast charging of most electric vehicles.

## SPECIFICATIONS



- Dimmers control both dimmable CFLs and LEDs
- Occupancy sensors turn lights on and off as needed
- Mini-meters measure electrical consumption or production
- Car charger quickly charges electric vehicles



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on this product.

# Maytag High-Capacity Maxima Front-Load Laundry Pair

**M**aytag High-Capacity *Maxima* Front-Load washer features a PowerWash cycle that provides extra-cleaning action to loosen deep set-in stains using an internal water heater. The 7.4-cubic ft. dryer has Advanced Moisture Sensing, to provide even drying on loads as large as 18 pounds.



## SPECIFICATIONS



- Energy-Star rated
- Internal water heater and *PowerWash* cycle clean deep-set stains
- Washer uses 82% less water and 84% less energy than pre-2004 top loaders
- Washer can handle up to 29 towels per load
- *Fresh Hold* option allows a 16-hour window in which to transfer wet laundry to the dryer
- 7.4-cubic ft. dryer evenly dries up to 18 pounds of laundry

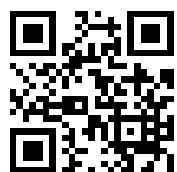
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VHLA Application

Laundry Room



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# Mythic Paint

**M**ythic Paint is a premium, non-toxic, zero-VOC paint available in more than 2,000 hues. Colors used in VHLA include Bedouin Sand, Blooming Berry, Green Gold and Washed Clay. It can also be matched to any color, and is available in all finishes for interior and exterior painting. There are three lines. Mythic Pro, Mythic Classic and Mythic Black Label. The last is not only non-toxic, but is also primer and top coat in one. The paint has a patented technology to prevent fading, and is extremely durable.

## SPECIFICATIONS



- Zero VOC
- Non-toxic and requires no warning label
- Manufactured in zero-emission facility
- Recyclable plastic container



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on this product.

VHLA Application

Used Throughout  
the Home

# Noritz Tankless Gas Hot Water Heater

The Noritz Tankless Gas Water Heater is Energy Star rated, designed to last twice as long as a traditional tank water heater. It's built with recyclable components and replaceable parts—and is 93% efficient—providing up to 8.4 gallons per minute of endless hot water.



VHLA Application  
All Domestic Hot Water

## >>SPECIFICATIONS>>>>>>

- Energy Star rated
- 93% efficient
- Less expensive PVC-vented installation

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# Orenco Stormwater System

Since 1981, Orenco has produced rain-, gray-, storm- and wastewater collection and treatment systems that use little energy and produce high-quality, re-usable treated water. VISION House® L.A. features the company's stormwater catch basin and pump basin, which provide stormwater filtration, storage and transportation. The system uses no chemicals or additives.



VHLA Application  
Exterior Stormwater Basin

## >>SPECIFICATIONS>>>>>>

- Catch basin
- Pump basin
- Pumps run only when necessary
- Stone-patterned access lid helps system blend into the landscape



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# Schlage Knob Sets and Back Plates

**S**chlage *Century Collection* levered knobs and back plates, used throughout VISION House® LA, house provide ease of access for all. Levers are easier to operate than typical round knobs, making it easier for people with arthritis or other disabilities—or just with their hands full—to open and close doors. Knob sets offer an easy three-step installation.

## SPECIFICATIONS

- Century Collection with Privacy locks
- Century Collection Passage does not lock
- Aged Bronze finish
- Lifetime finish and mechanical guarantee

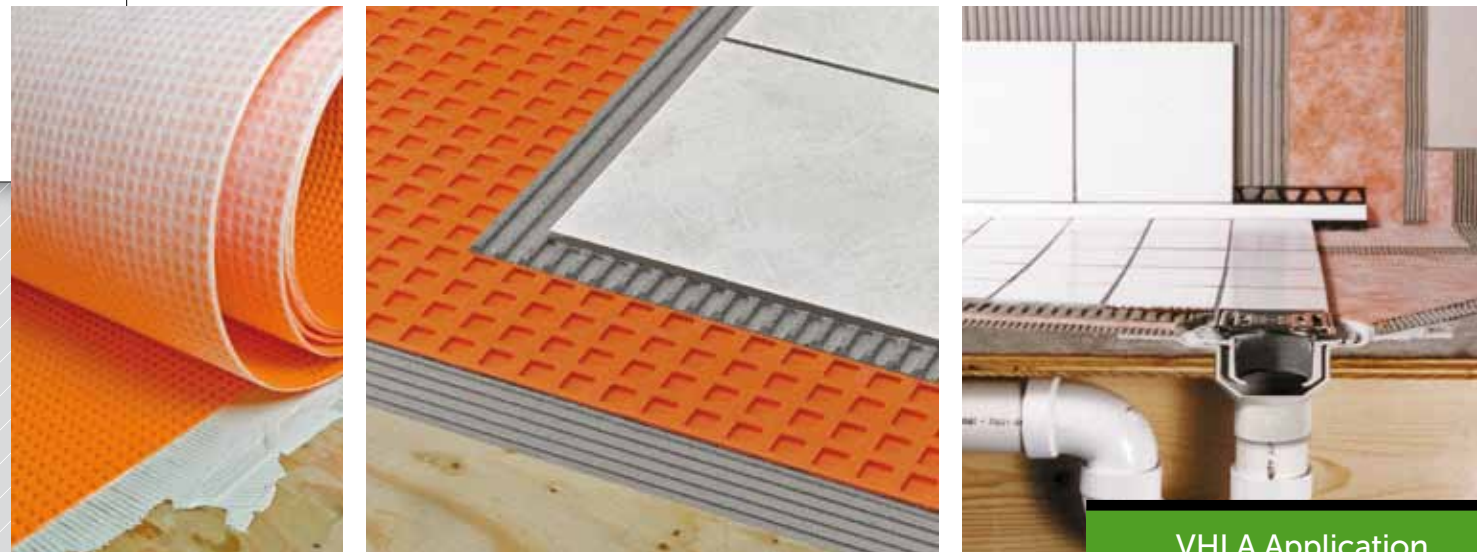


VHLA Application

Doors Throughout the Home



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VHLA Application

All Tile  
and Shower  
Installations

# Schluter Tile Installation Systems

**W**hat's underneath tile determines long-term installation success. A Schluter Shower System creates a totally waterproof and vapor-tight environment, and can be installed in showers constructed with standard drywall. In many instances, it eliminates the need to build a mortar bed. *KERDI-BOARD*, available in seven thicknesses, can be a substrate, building panel and bonded waterproofing solution. *DITRA* is a polyethylene mat that serves as an uncoupling layer, waterproofing membrane and provides support/load distribution to prevent cracks.

## SPECIFICATIONS

- Designed to increase the longevity of ceramic and stone tile installations
- Manufacturing waste is recycled
- Produced in a plant powered with geothermal technology



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# Trane 16 SEER, EER 13 HVAC System

**H**eating, ventilating and air conditioning systems have been selected for the Los Angeles climate. The Trane HVAC four- and five-ton systems feature 16 SEER cooling condensers and the company's *FreshEffects* energy-recovery ventilation system (ERV): an energy-efficient air ventilator, plus their *CleanEffects* air cleaner.



VHLA Application

Whole-House HVAC

SPECIFICATIONS



- 4-ton air handler model #TAM7AOC048
- 5-ton air handler model #TAM7AOC060
- Whole-house air filtration units model #FD260CLAH000C
- 4-ton condensing unit model #4TTX5049 E1000B
- 5-ton condensing unit model #4TTX5061 E1000A
- ComfortLink thermostat model #XL950
- Relay panels model #BAY24VRPAC52DA
- 75VA 24 volt transformers model #CB00714P01
- Energy-recovery ventilators model #100A9P00A



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# Trex TranscendAE Decking

**T**rex turns approximately 1.5 billion recycled plastic bags, along with scrap wood and sawdust, into durable outdoor railings and decks. Trex *Transcend* combines a finish that resists stains, scratches and mold with a distinctive and natural-looking high-definition, wood-grain pattern available in seven rich, deep colors.



VHLA Application

Exterior Decks and Railings

SPECIFICATIONS



- Made of recycled plastic bags, sawdust and scrap wood
- Keeps 1.5 billion plastic bags out of trees, rivers and landfills
- High-definition, wood-grain pattern
- 25-year Limited Fade and Stain Warranty



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