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





HOUSE

Los Angeles

Vvek

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%

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

he central vacuum is clinically proven to relieve allergies. It delivers up to five times the cleaning power of a conventional vacuum, and removes 100% of contracted dirt and allergens from living areas without stirring up dust inside the home. And it is quiet. The system qualifies for green building certification points in both the National Association of Home Builders and LEED green building programs.



>>SPECIFICATIONS >>>>>>>>>>

- Quiet Pak sound insulation
- Built-in utility inlet
- Self-cleaning filter
- On-Guard anti-microbial dirt-collection bucket
- 10-year warranty



SCAN HERE

for more information on this product.

VHLA Application

Whole-House Service

www.beamvac.com

Bentley Prince Street Carpet

Hollywood Sequel and Scan biobased carpeting. Hollywood Sequel has a hint of "old Hollywood glamour" with "dynamic lines and glimmering highlights." With fun color names such as "Bagger" and "Invalid Coupon," multi-colored Scan carpet takes a humorous approach to everyday life. The company conducts product life-cycle assessments (LCAs) and invests in third-party verified carbon credits to neutralize the CO2 emissions.

VHLA Application

Two Secondary Bedrooms; Area Rug for the Office Downstairs



>>SPECIFICATIONS >>>>>>>>>>

- Carpet and Rug Institute (CRI) Green Label Plus-certified
- Produced with net-zero greenhouse gas emissions
- Company has ReEntry carpet recycling program
- Easy-to-use LEED calculator automatically determines points



SCAN HERE

for more information on this product.



VHLA PRODUCTS

VHLA Application

>>SPECIFICATIONS>>>> Forest Stewardship Council (FSC)

Boise Cascade **BCI Floor** Joists

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.

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



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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.

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



SCAN HERE

for more information on this product.

VHLA Application

All Floors

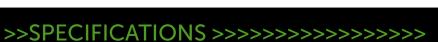
www.bc.com/wood

SCAN HERE for more information o this product



DuChateau Chateau Collection

uChateau Floors' Chateau Collection in Kasteel has an antique appearance that recreates centuriesold European styles. One of the first companies to introduce its finishing system, its pure hard-wax oil finish penetrates deep into wood fibers, protecting them from within, and offering excellent durability and reparability. The environmentally friendly, zero-VOC finish maximizes the wood's natural character and beauty. Floors gain a rich patina as they age.



- Material: FSC-certified wood
- Finish: hard wax oil
- Natural finish ingredients include sunflower, soybean and thistle oil, combined with natural carnauba and canella waxes
- Zero VOCs



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SCAN HERE

for more information on this product.

VHLA Application

Floors in Main Living Areas

www.duchateaufloors.com

DuPont Tyvek Whole House Weatherization System

yvek StuccoWrap and FlexWrap protect VISION House® L.A. from weather. StuccoWrap has an engineered, grooved surface that better manages water when ■ installed as a drainage plane. Curing stucco over the wrap helps keep the scratch coat from cracking, and promotes a stronger stucco facade. FlexWrap is a flashing that requires no mechanical fasteners, thus better protecting the home.



SPECIFICATION

- Non-woven fiber reduces air leakage
- Breathable, which allows moisture vapor to pass through, and can prevent growth of mold and mildew
- Reduces susceptibility of scratch coat to cracking
- Contributes to National Green Building certification and LEED



SCAN HERE

for more information on this product.

VHLA Application

Home Exterior



DuPont Zodiaq

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.

Solid surface is easy to keep clean

Heat and scratch resistant

VHLA Application

Kitchen; Bathroom

SCAN HERE

for more information on this product.

www2.dupont.com/Surfaces

VHLA Application

Complete Suite of Kitchen Appliances





Gaggenau Kitchen

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

SCAN HERE

for more information on this product.



24

station.

Honda Fit EV

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 **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





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.

(3/4") sizes

B B B B

SCAN HERE

for more information on this product.

VHLA Application

Pathways and Patios

SCAN HERE

for more information on this product.

www.fitev.honda.com

SPECIFICATIONS

decomposed granite

• 100% recycled concrete

Available in fine (3/8") or coarse

 Also available in paver base, as a less energy intensive alternative to

www.greenrock.us.com/products

Spider Insulates

Walls

Johns Manville JM Corbond MCS and Spider Insulation

ohns Manville *JM Corbond MCS SPF* closed-cell spray polyurethane foam insulates the roof to R-38, while blown-in *Spider* insulation brings walls to R-19. Corbond is made with 13% pre- and post-consumer waste. The foam product acts as both a thermal and moisture barrier. Spider is a formaldehyde-free, blown-in fiberglass insulation made of 25% recycled fiberglass content.



- Corbond MCS achieves R-38 at 6" thickness
- Corbond MCS creates thermal, air and moisture barrier
- Corbond MCS does not shrink or settle
- Spider has little or no waste and does not settle
- Spider is naturally mold resistant and used with a moldresistant adhesive
- Spider spray application allows for installation around pipes, wires and junction boxes



SCAN HERE

for more information on this product.

Kichler Fluorescent and LED Lighting

nergy-saving fluorescent and LED lighting is now available for almost any application. In VISION House® L.A., Kichler Lighting provides LED path, step, garden up-lighting and underwater lighting outdoors. Fluorescent lanterns illuminate entries. Indoors, fluorescent bath lighting includes several stylish fixtures that save on electricity use.



VHLA Application

Underwater;
Garden; Entries;
Bathrooms

SPECIFICATIONS

>>>>>>>>

- 2-in-1 LED Water/ Accent Light is designed for underwater use, but can also be used as an accent light
- LED mini-step light is available with a louvered faceplate, and provides even light to illuminate steps
- Fluorescent lantern is available for mounting on walls, posts or ceilings—or as a hanging light fixture



SCAN HERE

for more information on this product.

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Located Outside

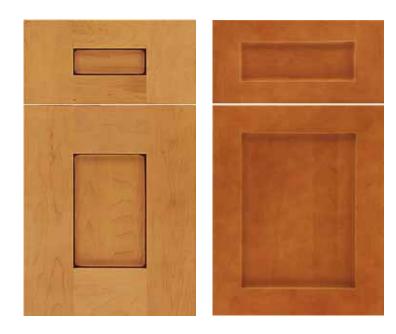
the Home: Whole

House Capability

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Kitchen Craft Cabinetry

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

- 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

Kohler Generator

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.



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





SCAN HERE

for more information on this product.



SCAN HERE

for more information on this product.

www.kitchencraft.com

Master Bathroom

Kohler Plumbing **Fixtures**

he Kohler Reve toilet is EPA WaterSense certified. The Reve elongated one-piece toilet features dual-Iflush 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

www.us.kohler.com

SCAN HERE

for more information on this product.

31

Leviton Electric Car Charging Station and Lighting Control

art 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.

VHLA Application

Throughout the House; Car Charger

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





SCAN HERE

for more information on this product.

Maytag High-Capacity Maxima Front-Load Laundry Pair

aytag High-Capacity Maxima Front-Load washer features a PowerWash cycle that provides extracleaning 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

33

34



Mythic Paint

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 zeroemission facility
- Recyclable plastic container



SCAN HERE

for more information on this product.

VHLA Application

Laundry Room

www.insideadvantage.com www.maytag.com



SCAN HERE

for more information on this product.

VHLA Application

Used Throughout the Home

36

35

Noritz Tankless Gas Hot Water Heater

he 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.



>>SPECIFICATIONS>>>>>

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

SCAN HERE

for more information on this product.

Orenco Stormwater System

ince 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



SCAN HERE

for more information on this product.

39

Schlage Knob Sets and Back Plates

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.



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





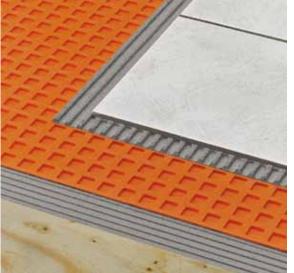
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for more information on this product.

VHLA Application

Doors Throughout the Home

Application





VHLA Application

All Tile and Shower Installations

Schluter Tile Installation Systems

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



SCAN HERE

for more information on this product.

www.schlage.com

www.schluter.com

VHLA Application

Whole-House HVAC

Trane 16 SEER, EER 13 HVAC System

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 energyrecovery ventilation system (ERV): an energy-efficient air ventilator, plus their CleanEffects air cleaner.



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

Trex TranscendAE Decking

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 highdefinition, wood-grain pattern available in seven rich, deep colors.



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



SCAN HERE

for more information on this product.



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for more information on this product.

VHLA PRODUCTS

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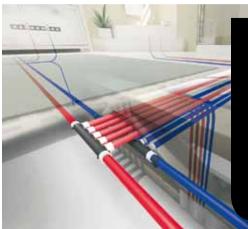
Uponor AquaPEX Plumbing, D'MAND Hot Water Delivery and Radiant Floor Systems

quaPEX plumbing includes easy-to-install cross-linked polyethylene tubing to supply water. The system resists corrosion, pitting, scaling and freeze damage. *D'MAND Hot Water Delivery* uses a pump activated by a button or motion sensor near a plumbing fixture to deliver hot water in seconds. The system saves about 40 gallons of water daily in a typical home. The company's Radiant Floor system also reduces home heating costs.

VHLA Application

Plumbing; Radiant Heat; Hot Water Circulator





>>SPECIFICATIONS>>>>>>>>>>>

- In a "Logic Plumbing" layout uses 83% fewer fittings than a trunk and branch system
- Uses 58% less tubing than a homerun system
- Saves roughly 40 gallons of water a day
- Floor heating can be zoned so that different rooms are set at different temperatures



SCAN HERE

for more information on this product.

www.uponor.com

VISION HOUSE LOS ANGELES



Presenting the home of the future: a smart house that takes advantage of integrated design elements, advanced technologies, and intelligent systems to enhance the home's performance. Durable green products keep the home healthy and safe. The house is regenerative, returning energy to the grid, adding value to its neighborhood, and replenishing its surrounding natural environment.



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