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S | SWEETS NEWS AND PRODUCTS

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GreenSource
THE MAGAZINE OF SUSTAINABLE DESIGN
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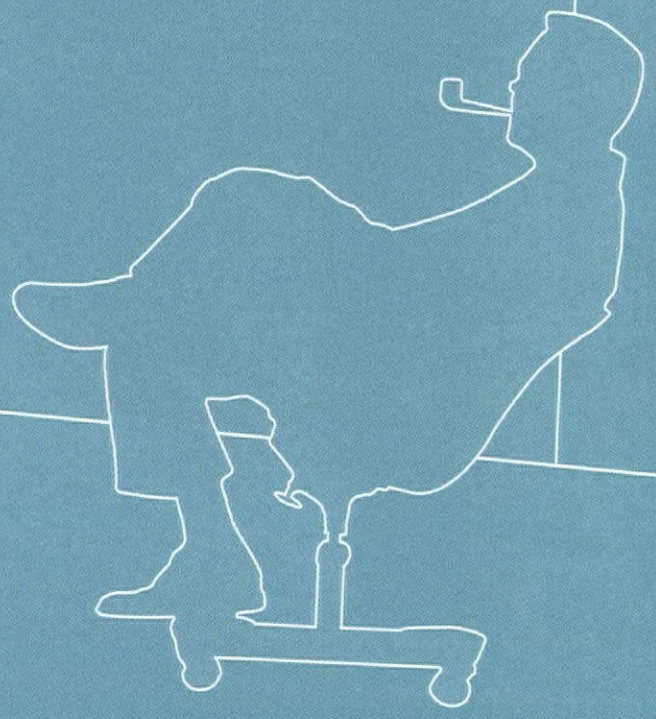

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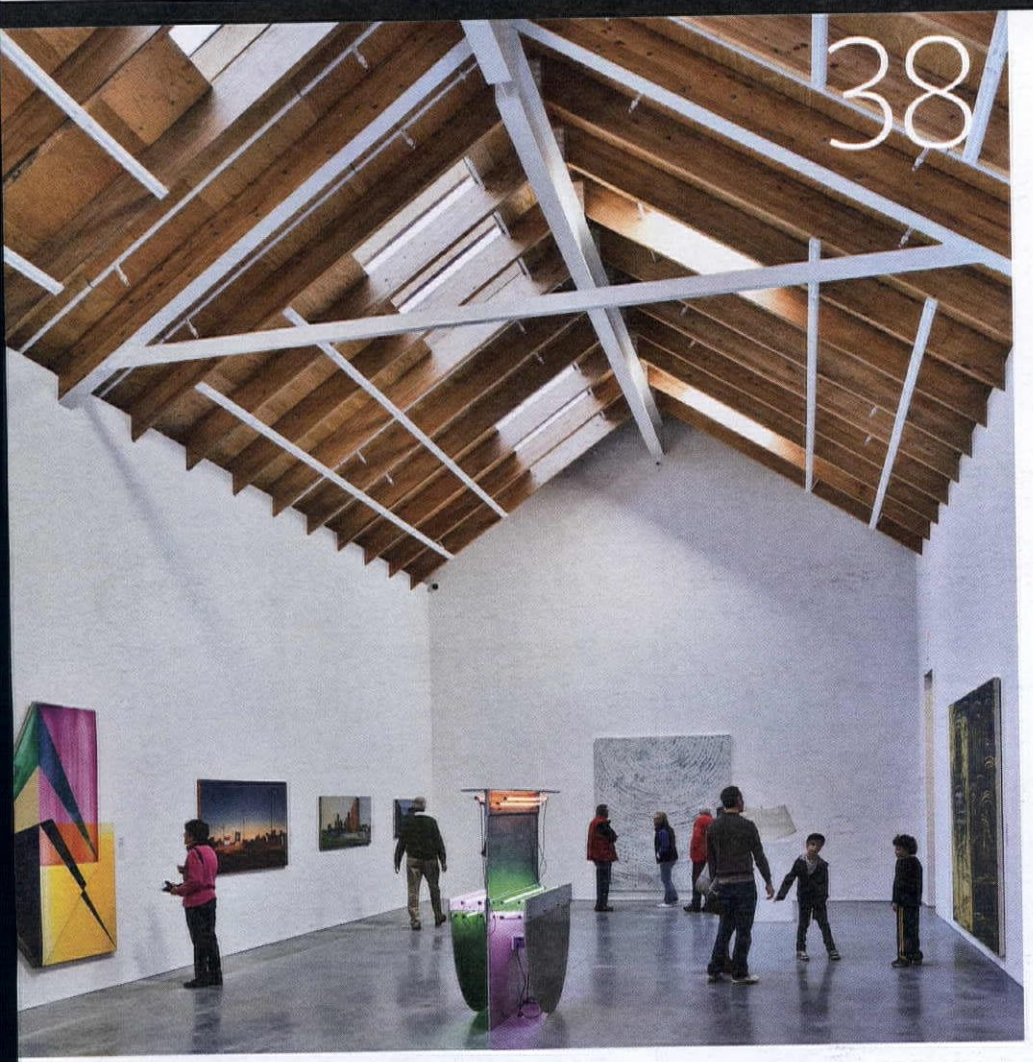

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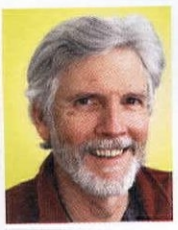

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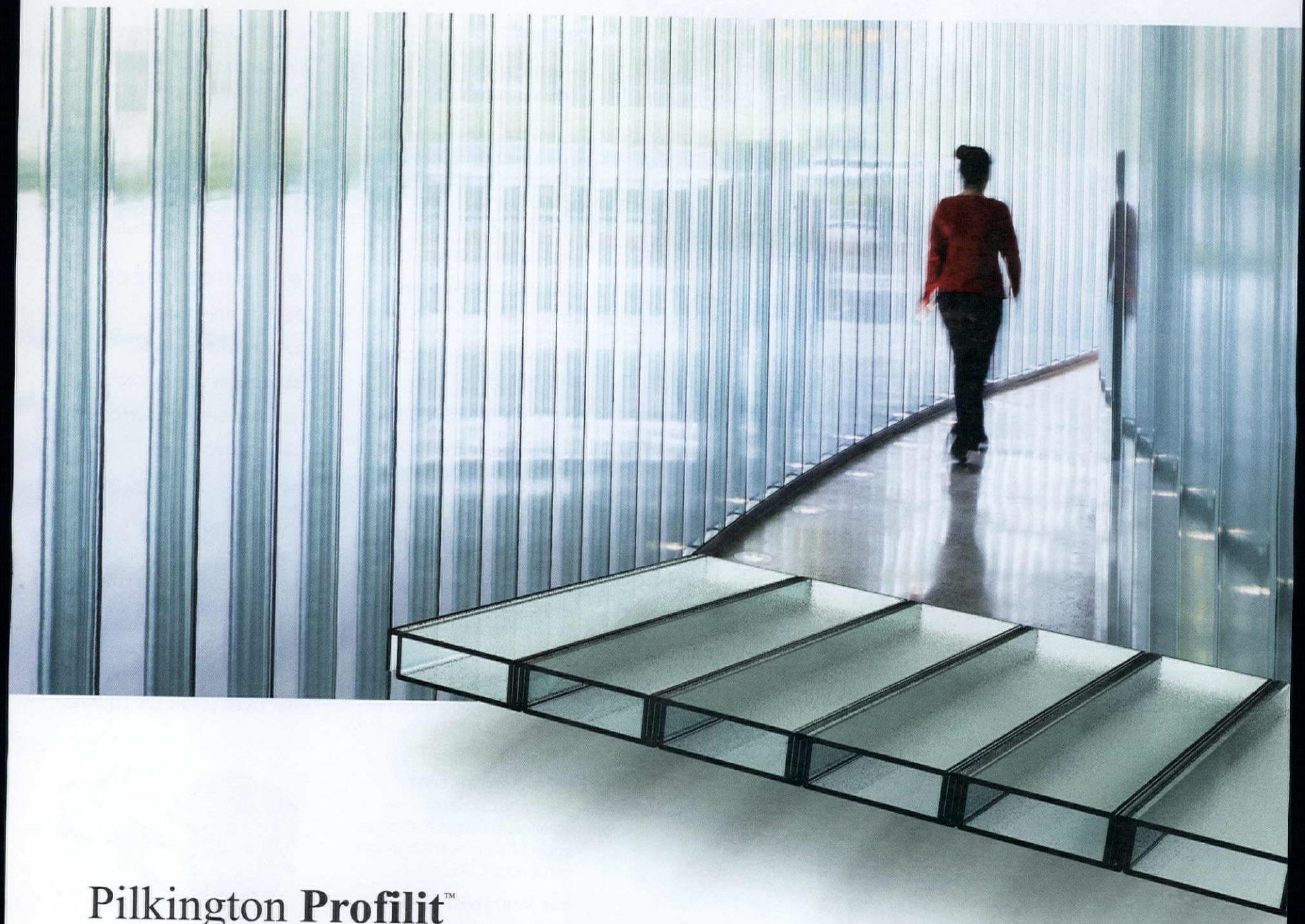
PUSH THE ENVELOPE.



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Take it Outside

WE MAY BE HALFWAY through summer already, but my mind is still focused on the outdoors and play. Perhaps because here in New York City, new recreational gems seem to be sprouting up on an ongoing basis.

In May alone, we saw three new openings: two sections in Brooklyn Bridge Park, a 30-acre site on Governors Island (see "Curb Appeal," page 30), and the three-acre Heritage Park on Staten Island's north shore.

At the Heritage Park opening, Mayor Bill de Blasio referenced Superstorm Sandy, saying, "Not only will this waterfront site provide Staten Island with stunning new parkland for the community to enjoy but also its innovative features will help Staten Island and the rest of the city be better buttressed from the fury of another storm and flooding."

Therein lies the challenge: How do we design such amenities, particularly those along the waterfront, to be attractive yet discreetly **resilient**? In this edition's CEU article, "Going With the Flow" (68), we examine five projects—from coast to coast—that deftly address this issue. The **focus on parks and recreation** continues in the feature story, "Hard at Play" (24), where we highlight outstanding indoor and outdoor designs built to withstand the rough-and-tumble—as well as in the Product Spec sections **Site Furniture** (30) and **Exterior Lighting** (32).

Some consider shopping a form of play. If that describes you, read the Case Study "Motor City Goes East Coast" (20), featuring the New York City flagship Shinola store by **Rockwell Group**. There's also our Q&A (17) with **Jeff Kovel**, the architect behind an award-winning retail project design in Portland, Oregon.

Whatever floats your boat, relish these final days of summer!

Warm regards,

Sheila Kim

SHEILA KIM *Editor*

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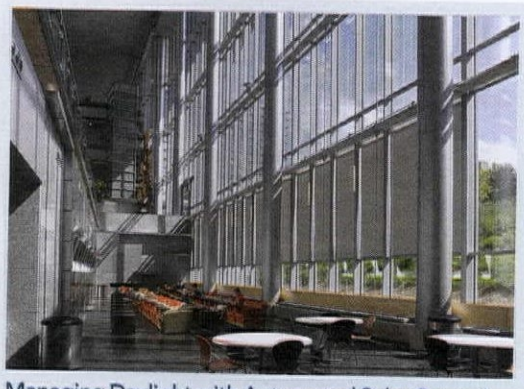

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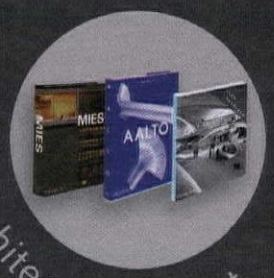

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in brief

"Anyone who has installed a standard pop-up drain knows how frustrating and time-consuming it can be."

—NOAH TAFT, SENIOR VICE PRESIDENT, CALIFORNIA FAUCETS

SNAP MATH

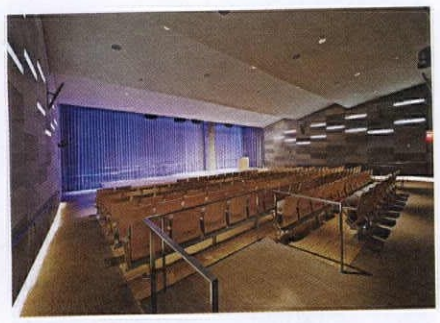
4,880

The approximate number of current **construction projects** in North America that are **incorporating low-e glass.**

SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

NEWS BRIEFS

DuPont Helps the 9/11 Museum Go for Gold



GREEN ACRES DuPont donated 500 yards of carpet constructed of its eco-friendly Sorona fiber.

BACK IN MAY, the **National September 11 Memorial Museum** opened in New York City to both praise and debate. But one aspect of its design wasn't hotly contested—the goal to make it green. And **DuPont** is a manufacturer contributing to this effort. Designed by **Davis Brody Bond** to attain LEED Gold, the museum incorporates energy-efficient systems and sustainable materials. To this end, DuPont donated 500 square yards of **Mohawk**'s SmartStrand Contract carpet for use in various spaces, such as the auditorium (above) and family room.

SmartStrand is made of DuPont Sorona fibers, which contain 37 % renewable plant-based ingredients. But Sorona's manufacturing is also worth noting: It requires 30% less energy compared to the production of nylon 6 and releases 63 % fewer greenhouse-gas emissions. Together these attributes can earn LEED points in the categories of Rapidly Renewable Materials, Regional Materials, and Indoor Air Quality. It may be some time before the project achieves certification, but visitors can truly breathe easier knowing that they're walking on a product that is sustainable—and CRI Green Label Plus–certified for low-emitting materials. *—Sheila Kim*

Don't Mind the Gap

WITH PROTRUDING STOPPERS, cumbersome lift rods, and the inevitable buildup, typical sink drains haven't improved in design the way that sinks themselves and faucets have. But **California Faucets** is trying to change this with its latest patent-pending design, **ZeroDrain**.

The world's first "pop-down" drain, ZeroDrain is a streamlined unit that **sits flush with the sink** and allows water to pass through a discreet ring-shaped gap around the stopper. Instead of a lift knob, it utilizes a piston that creates a perfect seal when the stopper is pushed down. The stopper can also be easily removed, rinsed, and reinserted. The solid-brass fixture, available in 30 finishes, has a diameter of 2 7/16 inches (the stopper itself measures 1 7/8 inches in diameter).

"Pop-up drains are dinosaurs. Anyone who has installed a standard pop-up drain knows how frustrating and time-consuming it can be," says Noah Taft, California Faucets senior vice president of marketing and sales. "We're approaching everyday plumbing in a new and innovative way with products that work better, look better, and are easier to use." *—Jasmine Bager*

DOWN THE DRAIN ZeroDrain, from California Faucets, is the world's first "pop-down" drain with no protruding components. Its stopper utilizes a piston design to create a seal when pressed down.

PHOTO CREDIT: COURTESY DUPONT

ON THE RED CARPET RGA, a Mexico City project by Trazo, was a winner in the Small Office Category of Shaw Contract Group's annual "Design Is..." competition.

MAIN EVENT

Design Takes the Floor

THE BREADTH OF FLOORING PRODUCTS available today has undoubtedly contributed to innovation in design, and in recognition, flooring giant Shaw Contract Group presented its ninth annual "Design Is..." awards. Architects and interior designers were invited to submit projects incorporating a Shaw brand hard-flooring or carpet product in the categories of Government/Civic, Hospitality, Health Care, Education, Small Office, Mid-Size Office, and Large Office. A panel of 20 judges—distinguished members of the A&D community hailing from Gensler, ZGF Architects, and SmithGroupJJR, among others—reviewed more than 350 entries from 25 countries, ultimately naming 40 projects Market Winners.

"The design showcased in the entries signifies the global reach of our brand and utilization of high-performance, Cradle to Cradle–certified products

(continued)

in brief

(Shaw continued)

across the globe," says John Stephens, vice president of marketing for Shaw Contract Group. "This year's winners reflect how design profoundly impacts the mission of the space, and its positive effect on the people who use it."

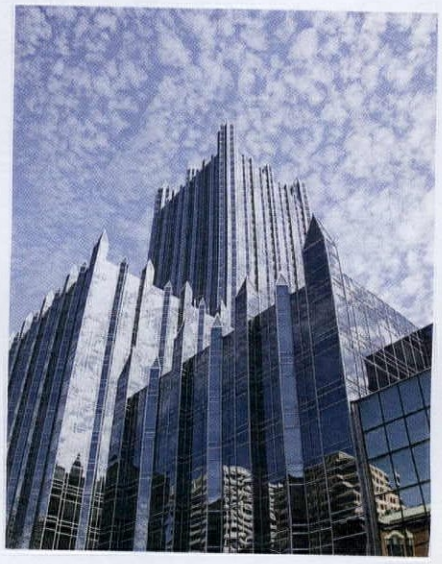
AECOM won in the Large Office category for its DIRECTV project in El Segundo, California. The high-energy environment was emphasized through color and distinct zones for social connection and amenities in addition to work spaces.

A winner in Mid-Size Office, **Design Blitz**'s SquareTrade Headquarters in San Francisco featured exposed raw structural elements and ceilings, paired with plank-style flooring that echoes the distressed and industrial vibe as well as complements the rectilinear logo of the client.

And in the Small Office category, architecture firm **Trazo** scored points for its RGA offices in Mexico City. Here, geometric motifs—mostly in the form of Shaw's Hexagon carpet—counterbalance clean lines and minimalist contract furnishings. (View all winners on shawcontractgroup.com.)

But there is more to this competition than honors bestowed upon winning projects and firms: The 40 Market Award winners are entered into a second phase of judging for the program's Global Awards distinction. The Global winners, to be announced in September, will each receive $2,000 to be donated to a school or organization of their choice. *—JB*

GOLDEN ANNIVERSARY
Among the famous structures featured in an exhibit celebrating 50 years of Solarban glass in the built environment are Colonnade Plaza/Mutual of Omaha Regional Office by Minoru Yamasaki (left) and PPG Place by Philip Johnson and John Burgee Architects (below).



And the First C2C Door Is...

THE ACROVYN COLLECTION of impact-resistant doors by **Construction Specialties** recently became the **first door to achieve Cradle to Cradle certification**. Qualifying at the Bronze level, the interior FSC-certified particleboard and mineral-core doors—offered in 15 wood-grain patterns, 60 solid colors, and two simulated metal finishes—can now be counted toward credit in **LEED Version 4**.

The manufacturer provides an inventory of the doors' chemical compositions and information on their life cycles, enabling architects specifying them to earn one point for Materials and Resources: Building Product Disclosure and Optimization/Material Ingredients. As part of the continual improvement criteria required for the C2C assessment, Construction Specialties sourced suitable alternatives to certain adhesives and fire retardants used in the doors.

In the Cradle to Cradle certification process, products are evaluated by a third party—**McDonough Braungart Design Chemistry**, based in Charlottesville, Virginia—in five areas: material health, material reutilization, renewable energy and carbon management, water stewardship, and social fairness. The assessment and certification process takes two to six months to complete. Committed to C2C principles, Construction Specialties is no stranger to the procedure, with more than 40 of its products—other than doors—already awarded the designation under earlier versions of the program.

"Cradle to Cradle allows us to fulfill our corporate vision," explains Howard Williams, LEED AP, ID+C, vice president of Construction Specialties, "as its rigorous sustainability protocol encourages us to create products that make buildings better."

Executive general manager of the company Ken Barbour says, "We want to make sure we are still delivering the durability of our doors but with healthier materials in place." The Acrovyn doors contain no chemicals of concern, like persistent bioaccumulative toxins (PBT), and they are free of halogenated fire retardants, which were banned in 2006 by the European Union. For more information, visit c-sgroup.com. *—Lisa Caldwell*

KNOCK ON GOOD Acrovyn doors from Construction Specialties are the first doors to achieve Cradle to Cradle certification.

Looking (at) Glass

TRADITIONALLY, a 50th anniversary is marked by gifts of gold. But in the case of **PPG**, which this year is celebrating the semicentennial of one of its marquee products, the material of choice is glass—in a manner of speaking.

Solarban, the groundbreaking and now ubiquitous low-emissivity, heat- and light-reflective glazing, was first fabricated in 1964, when Pittsburgh-based PPG adapted the wet-chemical deposition process to produce an energy-efficient, coated architectural glass.

The manufacturer is commemorating the technological achievement with a photographic survey of case studies spanning five decades of design. The exhibition is traveling to various AEC industry trade shows throughout 2014, but may also be viewed in a digital montage at solarbanglasslegacy.com. To see it is to experience a concise history of high-rise structures. Among some of the 50-plus projects featured are Colonnade Plaza, once known as the Mutual of Omaha Regional Office, in Miami (**Minoru Yamasaki**, 1965), One United Nations Plaza in New York (**Kevin Roche John Dinkeloo and Associates**, 1975), PPG Place in Pittsburgh (**John Burgee Architects** and **Philip Johnson**, 1984), the Salt Lake City Public Library (**Moshe Safdie and Associates** and **VCBO Architecture**, 2003), and the Queen Alia International Airport in Jordan (**Foster + Partners**, 2013). Other noteworthy architects and firms represented are **SOM**, **AC Martin**, **HOK**, **Paul Rudolph**, **I.M. Pei/Pei Cobb Freed & Partners**, and **Fentress**.

Continuing research and proprietary innovation have expanded the Solarban family through today. Magnetron-sputtered vacuum deposition, developed by PPG in 1983, formed the basis of Solarban 70XL—the world's first triple-silver-coated solar-control low-e glass, which was released in 2005. In the exhibit, a timeline charts these and other related advances in energy-efficient glass, translating technical performance data into a user-friendly infographic format. *—LC*

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NEW!

SuperLite™ II-XL 45

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SNAP 299

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V/S

New products enliven in- and outdoor settings

The latest introductions range from edgy modular furniture and lighting systems to practical yet beautiful window, door, and floor products.

1.
VESSEL

MANUFACTURER: 3M Architectural Markets
PERFORMANCE: The pendants and sconces feature solid quartz cylinders that channel LED light through. Two color temperatures are available.
PRICE RANGE: **$$**
APPLICATIONS: Precise lighting on tabletops or walls. Perfect for residential and contract interiors.
3M.COM
(SNAP #01)

2.
VOLA RS10

MANUFACTURER: Vola
PERFORMANCE: A discreet in-wall dispenser, measuring 7¼ inches in diameter, RS10 uses liquid or foam soap. Electricity or battery powered.
PRICE RANGE: **$$$**
APPLICATIONS: With a ring offered in a range of metallic finishes or colors, the attractive fixture suits any commercial project.
HASTINGSTILE BATH.COM
(SNAP #02)

3.
LA2 CONNECTED

MANUFACTURER: LightArt by 3form
PERFORMANCE: The modular LED system is a customizable kit of parts that attach via concealed connectors for a seamless look.
PRICE RANGE: **$$**
APPLICATIONS: More than 1,000 color options are available, and the configuration possibilities are limitless for various settings.
3-FORM.COM
(SNAP #03)

4.
BUZZIVILLE

MANUFACTURER: BuzziSpace
PERFORMANCE: An expandable modular system, BuzziVille features tall walls composed of eco-felt acoustical material. Tabletops are installed simply by hanging them onto the walls.
PRICE RANGE: **$$–$$$**
APPLICATIONS: Ideal for work spaces, the system can be used to create cubicles and meeting booths.
BUZZISPACE.COM
(SNAP #04)

KEY **$** = VALUE, **$$** = MID-RANGE, **$$$** = HIGH-END

= ECO-FRIENDLY ATTRIBUTES

5.
STRIPE SLIDING DOOR

MANUFACTURER:
Rimadesio
PERFORMANCE:
Black or brown aluminum slatted frames sandwich lacquered glass to create these elegant doors.
PRICE RANGE: $$$
APPLICATIONS:
The glass is available in a number of tints or with a reflective surface. Ideal for either residential or hospitality projects.
DOMINTERIORS.COM
(SNAP #05)

6.
HUMAN NATURE

MANUFACTURER:
Interface
PERFORMANCE:
Biophilia inspired this carpet-tile collection, which is constructed of 100% recycled-content nylon yarn and manufactured in energy- and water-efficient factories.
PRICE RANGE: $$
APPLICATIONS:
Well suited to contract spaces, from offices to hotels, the tiles come in five fresh patterns.
INTERFACE.COM
(SNAP #06)

7.
DUE

MANUFACTURER:
Del Conca
PERFORMANCE:
These hefty through-body porcelain tiles, offered in 19 styles that mimic natural stone, measure 24 inches square by ¾ inch thick.
PRICE RANGE: $$$
APPLICATIONS:
For indoor or outdoor flooring and steps; can be dropped onto grass or other terrains as pavers.
DELCONCA.COM
(SNAP #07)

8.
TWO BY PIET BOON

MANUFACTURER:
Formani
PERFORMANCE:
The Dutch-made hardware line of handles, locks, and fasteners marries hard and curved edges, stainless steel and solid oak.
PRICE RANGE: $$$
APPLICATIONS:
For residential doors and windows; bathroom hardware also available.
BRIDGEPORT WORLDWIDE.COM
(SNAP #08)

9.
VIEW DYNAMIC GLASS

MANUFACTURER:
View
PERFORMANCE:
An electrochromic coating is applied onto float glass, enabling it to transition between four tints. Can be controlled via wall switches or mobile application.
PRICE RANGE: $$$
APPLICATIONS:
Ideal for buildings requiring glare- and solar heat–gain control.
VIEWGLASS.COM
(SNAP #09)

10.
MINNIONE TREE GRATE

MANUFACTURER:
Iron Age Designs
PERFORMANCE:
The made-to-order grates, composed of recycled materials like iron, bronze, and aluminum, are offered in various finish options. This grate features a 12-inch opening.
PRICE RANGE: $$
APPLICATIONS:
Tree grating in parks, plazas, and other public zones.
IRONAGEGRATES.COM
(SNAP #10)

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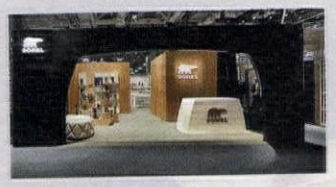
INTERVIEW BY ALIA AKKAM

Jeff Kovel: Reimagining Retail

Principal Architect, Skylab Architecture, Portland, Oregon

ELABORATE ON SOME OF YOUR RECENT RETAIL PROJECTS.



Like a music venue that transforms nightly, the Portland flagship of online retailer **Solestruck** is a flexible, event-based space with a changeable readerboard for the exterior sign. In the shoe cellar, featuring **cork wallpaper by Wolf Gordon**, back stock is visible through a floor-to-ceiling glass wall. For **Sorel** [above], the global retail design **abstracts forms of the Arctic** and detailing found on the products. **Upholstered walls and nesting fiberglass blocks** reminiscent of igloo structures serve as footwear risers. Throughout are **Maharam textured vinyl fabric** walls and epoxy-coated, black-gloss fiberglass arches.

SOLESTRUCK IS WITHIN AN ADAPTIVE REUSE BUILDING. HAVE YOU WORKED ON OTHER PROJECTS OF THIS KIND?

The **Flavor Paper** headquarters [left] is a mixed-use redevelopment of a five-story parking structure in Brooklyn. The fascinating manufacturing process takes place on **60-foot-long silkscreen tables**. We amplified the artwork by installing a **mirrored soffit and exterior canopies over the tables**, enabling pedestrian traffic to view the process in an overhead reflection.

WHAT HAVE YOU SPECIFIED RECENTLY?

Watermark plumbing fixtures in the bathrooms of the **Snowmass** residence, a project under construction in Colorado. At the **W Hotel Seattle**, we roped together custom handblown, 42-inch-tall glass tubes from **Esque Studio** to create chandeliers [right].

WHAT MATERIALS AND FINISHES ARE YOU DRAWN TO?

Shou sugi ban, the Japanese technique of curing wood through torch burning. The Solestruck storefront highlights this treatment through laminated curving strips. I also like bronze mirror finishes and mild-finished steel.

Upon graduating from the Cornell University Department of Architecture, **JEFF KOVEL** *headed for Portland, Oregon; in 1999 he founded Skylab Architecture there. The firm's projects, which span the retail, hospitality, residential, and commercial realms, include Nike's "Camp Victory" for the 2012 Olympic Track and Field Trials in Eugene, Oregon; the W Seattle; and the Hoke residence, which appeared in the film* Twilight.

40% The percentage of Skylab Architecture staff biking to work on a weekly basis.

The architect stands inside his retail project, Solestruck, in Portland, Oregon. The curving display platforms are treated with a black DuPont Scuffmaster paint.

PHOTO CREDITS: ROBBIE MCCLARAN (PORTRAIT); COURTESY SKYLAB ARCHITECTURE

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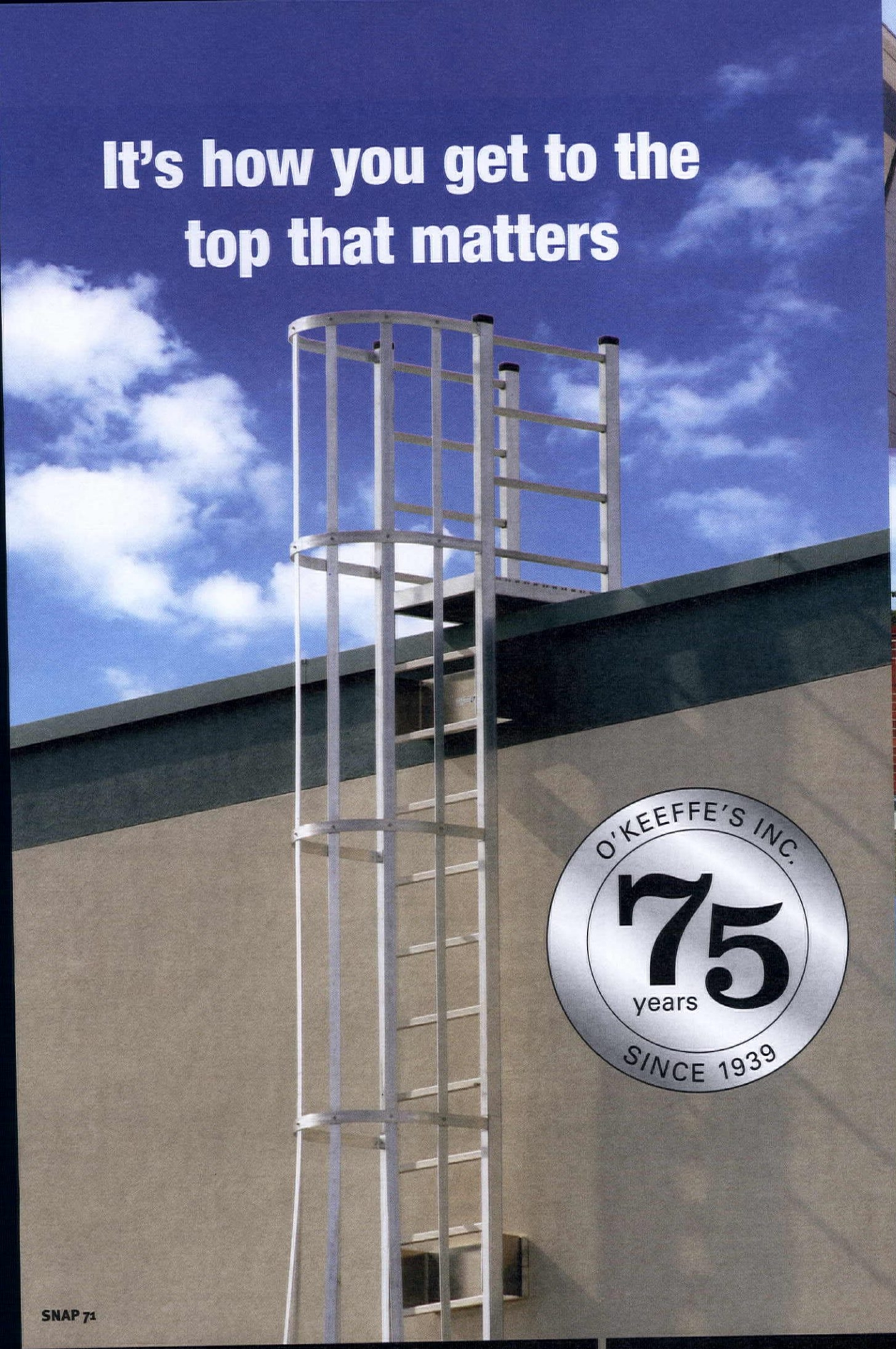
SNAP 291

It's how you get to the top that matters



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BY ANNA FIXSEN

SHINOLA FLAGSHIP, NEW YORK CITY

Motor City Goes East Coast

PROBLEM: *Create a retail store reflecting a luxury brand identity while preserving elements of a landmarked building.*
SOLUTION: *Mingle old and new design components and materials to capture the label's historic industrial spirit.*

OVER THE LAST few years, Shinola has emerged as the poster child for Detroit's rebirth. Once a shoe polish brand immortalized in a World War II–era colloquialism ("You don't know sh-- from Shinola"), the name was revived by a new company, a Detroit-based manufacturer of high-end timepieces and leather goods. For its New York City flagship, completed last year, the leadership team commissioned Rockwell Group to bring a bit of the Motor City to the Big Apple.

"We wanted to create a space that looked at the mythology of American industrialism: a clean, contemporary showroom and place to explore," says firm founder and president David Rockwell.

Because the 3,400-square-foot store is situated in a landmarked Tribeca district, the design team looked to archival images in restoring the 19th-century facade. The group gutted the interior, whitewashed the walls, and poured and polished a concrete floor, employing a palette of brass, oak, and bronze.

The concept is twofold: To access the sales floor at the rear, visitors must pass through an inviting coffee shop. Beyond the café's custom fire doors (by Capital Doors), a simulated skylight on the back wall of a lofty space draws patrons into the retail zone. Custom displays hold an assortment of wares from shoe polish to bicycles. A white tiered shelving system by Walters Custom Cabinetry doubles as seating for in-store events.

To channel Detroit's industrial past, the team sourced one-off vintage pieces, including a bronze world map—formerly in a Rockefeller Center lobby—and brass junction boxes from naval ships, reborn as café lighting.

Says Rockwell, "[Shinola] gave us a chance to embrace crafting and manufacturing with the same romance that the brand employs with its products."

ARCHITECTS
Rockwell Group
TYPE
Retail
PRODUCT
Sun Proof Latex Exterior Paint
MANUFACTURER
Pittsburgh Paints
PERFORMANCE
The 100% acrylic paint is resistant to mildew and fading.
APPLICATIONS
Suitable for both residential and commercial projects. Available in flat, satin, and semigloss sheens.
PRICE RANGE $$
PPGPITTSBURGHPAINTS.COM
(SNAP #15)

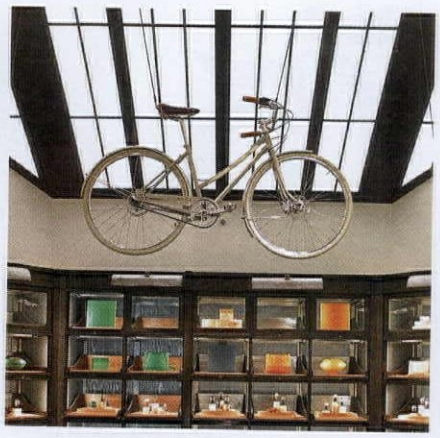
OLD MEETS NEW Rockwell Group restored a 19th-century facade for Shinola in New York City (above). In the store's retail portion (opposite), a skylight backlit by LEDs changes color over the course of the day to simulate sunlight.

IN THIS PROJECT

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

MARIANA LIMESTONE

MANUFACTURER: Walker Zanger
PERFORMANCE: Sourced from Europe, the durable 3-centimeter-thick soapstone slab topping the counter has a honed finish and cool-gray hue.
PRICE RANGE: $$$
APPLICATIONS: Can be used in residential and commercial settings alike, in such applications as countertops and flooring.
WALKERZANGER.COM
(SNAP #16)



TRANSLUCENT GLASS

MANUFACTURER: Archetype Frameless Glass
PERFORMANCE: The hand-fabricated glass consists of a layer of resin laminate encased in two or more glass panels. Interlayers can be formulated to a specified level of opacity.
PRICE RANGE: $$$
APPLICATIONS: Archetype's products can be used for an array of design scenarios including custom skylights, frameless doors and walls, furniture, and cabinetry.
ARCHETYPEGLASS.COM
(SNAP #17)

CUSTOM DISPLAYS

MANUFACTURER: Walters Custom Cabinetry
PERFORMANCE: Custom shelving and display cases for Shinola range from white-oak tables and bike racks in the retail section to walnut millwork and cases in the café.
PRICE RANGE: $$$
APPLICATIONS: The Pennsylvania-based company builds custom shelving, cabinets, doors, and furnishings for both commercial and residential projects.
WALTERSCUSTOMCABINETRY.COM
(SNAP #18)

CUSTOM STEEL AND BRASS STAIRCASE AND CATWALK

MANUFACTURER: Total Metal Resources
PERFORMANCE: To achieve the desired vintage feel, the steel gets a custom patina and the copper handrail is treated with acid.
PRICE RANGE: $$$
APPLICATIONS: Total Metal Resources makes custom, handcrafted metal work for all types of fabrications—furniture and lighting included—for commercial and residential projects.
TMRNYC.COM
(SNAP #19)

PHOTO CREDIT: ERIC LAIGNEL

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SNAP 82

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Hard at Play

Designers explore products that hold up in recreational settings, inside and out.

BY MICHAEL COCKRAM

RAISE THE ROOF Bushwick Inlet Park (above and right) in Brooklyn, New York, features a sloping green roof that covers the park building and looks out over the playing fields, toward the Manhattan skyline.

NOTHING FIRES UP the brain like play. So said psychiatrist and researcher Stuart Brown, M.D., in a TED talk in which he extolled the value of play as essential to our development, keeping us mentally fit and balanced throughout our lives. In four recent projects, architects and designers have set the stage for various types of play using materials that support recreation and stand up to wear and tear.

ON THE WATERFRONT

As Brooklyn's East River waterfront makes the transition from industrial to residential use, the area is seeing a wealth of recreational spaces pop up. The recently opened **Bushwick Inlet Park**, whose design team was headed by **Kiss + Cathcart, Architects**, extended the riverside green space by covering the building's sloping roof with natural turf. For the building itself, which houses multipurpose and maintenance facilities, **Efco** storefront windows and **Trespa** phenolic-resin panels were used to give the facade an urban edge. A back entrance cutting into the green roof connects the building to the park and brings in daylight. "The park side walls are foldable **Nanawall** doors," says principal Gregory Kiss, "which offer good thermal performance and can open completely." Artificial turf from **Domo Varioslide Supreme** covers the playing fields. According to Stephen Whitehouse of **Starr Whitehouse Landscape Architects**, natural grass couldn't stand up to the beating that the intensively used fields take.

One project goal was to avoid adding stormwater to the city system and to minimize water flowing into the East River. Beneath the fields is a deep base of crushed gravel, which holds stormwater until it filters into the soil. To absorb runoff, the designers specified permeable pavers by **SF Rima** for the walkways winding through the park. (Read more about Bushwick Inlet Park's resilient design strategies in the CEU course "Going with the Flow," page 68.)

CARVING OUT SPACE

On a triangular site wedged between a roadway and train tracks, the **Kavel K Youth Center** in the Hague, Netherlands, makes use of every square inch of space. On either side of the recreation building are hardscape play areas: a skate park on one and a soccer and basketball court on the other.

PHOTO CREDIT: PAUL WARCHOL

The Amsterdam-based multidisciplinary firm **Carve** fashioned the skate park into a series of three basins; it also incorporated an adjacent concrete-clad building by scooping out an area of the facade so that skaters can essentially roll up the wall.

The low-lying Netherlands is especially mindful of flood prevention and therefore stormwater management. So the designers sought a solution to dealing with on-site water. For the walkways, they used standard permeable paving bricks mixed with patches of exposed earth that are held in place with **Greenbrick**, a high-density polyethylene (HDPE) hollow brick developed by Carve and manufactured by **StruykVerwo**. "Greenbrick is completely permeable and it allows grass to grow in between the street pavement," says Carve founding partner Elger Blitz.

MIXING BUSINESS WITH PLEASURE

According to Brown, even adults are more engaged and productive when their work has a playful element. This notion is embodied in the 40,000-square-foot **Brooklyn Boulders Somerville**, in the latter-named city north of Cambridge, Massachusetts. "We believe that physicality stimulates innovation and creativity," says Brooklyn Boulders Somerville cofounder Jesse Levin. "Startups working here will go for a climb or capoeira, and they'll get invigorated in a way that they wouldn't [have] in a traditional work environment."

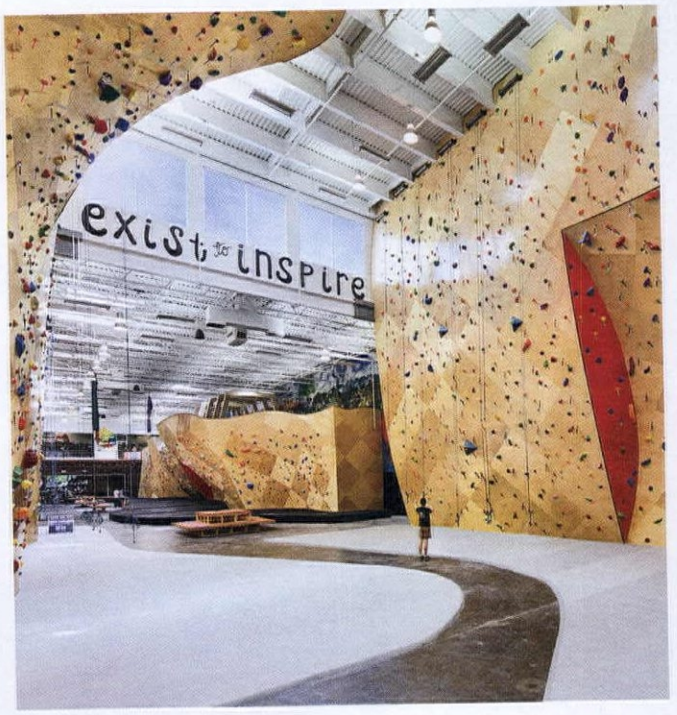
The Active Collaborative Workspace comprises an open coworking space, yoga areas, weight rooms, and—at its heart—a 120-foot-wide free-climbing wall. The floor at the wall's base, custom made by **Vertical Solutions**, consists of 16-inch-thick high-resilience foam wrapped in ballistic nylon. The birch-plywood surface of the scaling walls is peppered with a variety of holds from such companies as **Habit Climbing**.

These walls benefit from diffuse light that doesn't cast sharp shadows. **Arrowstreet** architects specified standard fluorescent fixtures that are inverted to bounce light off the ceiling in these areas. In zones where stronger downlighting was necessary, they chose high-bay luminaires like **Deco**'s new Orion D910.

WOODY NOTES

In 2013, **J. Meyer H. and Partner Architects** inserted the **MobiVersum** playscape into an existing building that houses a sustainability exhibit in the **Autostadt**, a car-themed visitor's complex in Wolfsburg, Germany. The interactive playscape, reaching up to 47 feet high, utilizes fire-resistant, locally sourced beech plywood supplied by **Hess Timber**. "The tactile quality of wood is unique," says project team member Wilko Hoffman. "It's warm to the touch and a softer play surface than many other materials."

The architects derived the design from the international recycling symbol, which is abstracted into a three-dimensional biomorphic form. Then they integrated slides, climbing nets, and hiding nooks. **LED Linear**'s Phobos TV strip lights illuminate and highlight features. The project also includes workshop spaces, a learning kitchen, and other interactive features that help teach children about sustainability. ■

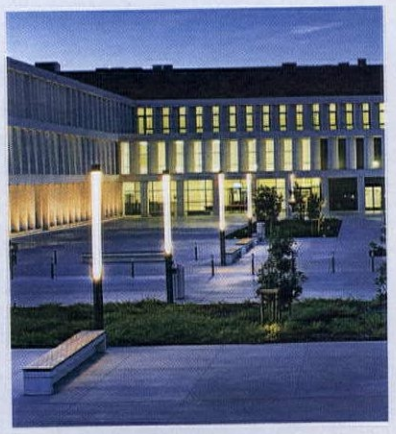


ROCKING AND ROLLING Building and skate park are intertwined at the Kavel K Youth Center (top) in the Hague, Netherlands—skaters can roll right up the side of the building's concrete facade. A wood-clad wonderland, the MobiVersum playscape (left) in Wolfsburg, Gemany, encourages play while teaching kids about sustainability. Brooklyn Boulders Somerville (above) provides members with work space and recreational outlets, such as this plywood climbing wall.

PHOTO CREDITS (CLOCKWISE FROM TOP): MARLEEN BEEK/CARVE; ED WONSEK; UWE WALTER

OUTDOOR TYPES

THESE LANDSCAPE PRODUCTS PROVIDE SAFETY AND COMFORT FOR RECREATIONAL SPACES WITH AN EYE TO AESTHETICS



HESS AMERICA

The new Sierra LED series includes bollards and ground-mounted columns in 13- and 21-foot heights. The fixtures, boasting low power consumption and long lamp life, are equally suited to pathways and general landscape lighting.
HESSAMERICA.COM

HOLLAENDER

The anodized aluminum finish on the new Interna-Rail Vue architectural railing system gives the appearance of stainless steel at a more affordable price point. The infill panels come in both clear tempered glass—to maximize views—and acrylic resin in a variety of patterns and designs.
HOLLAENDER.COM

ATELIER VIERKANT

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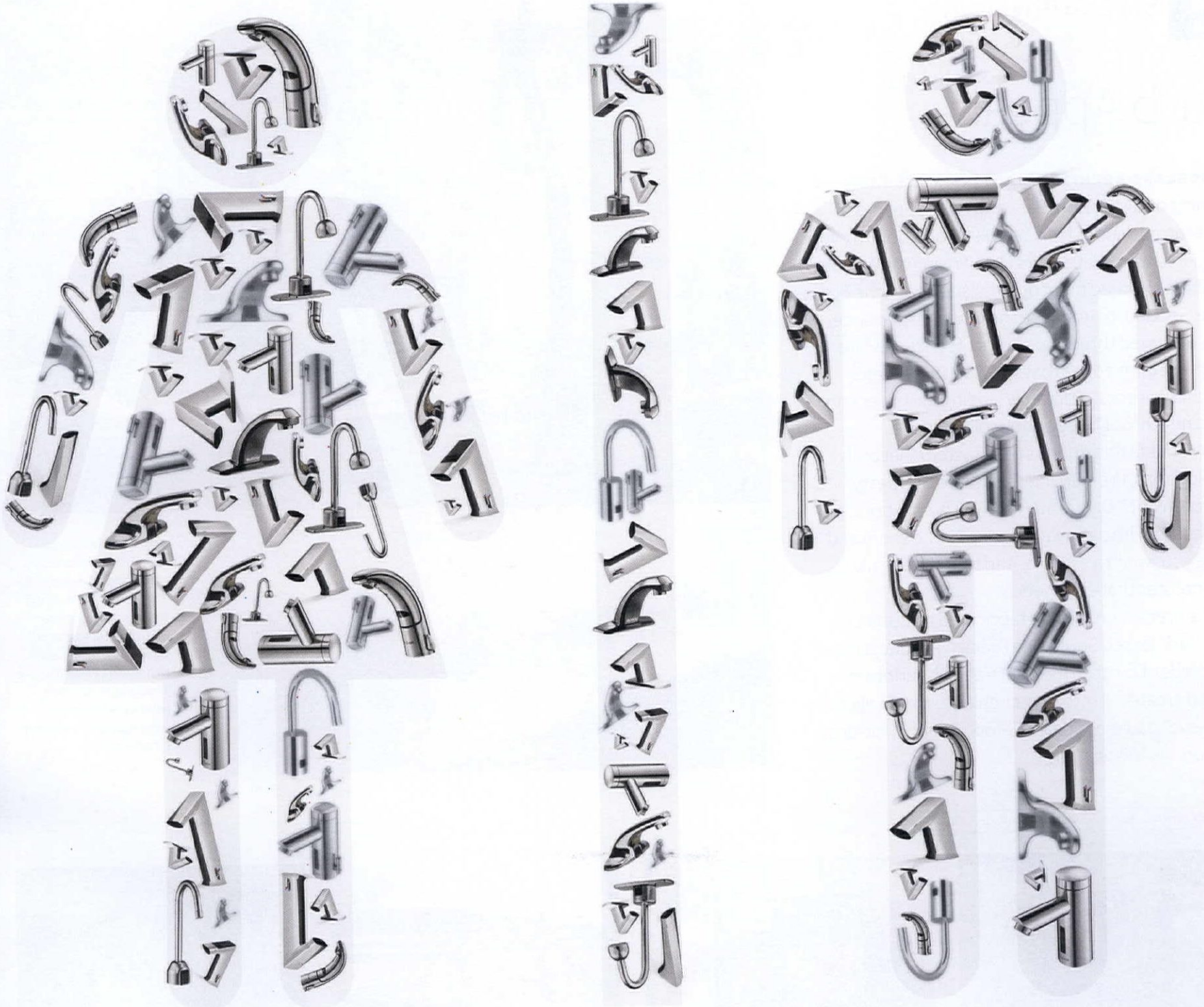

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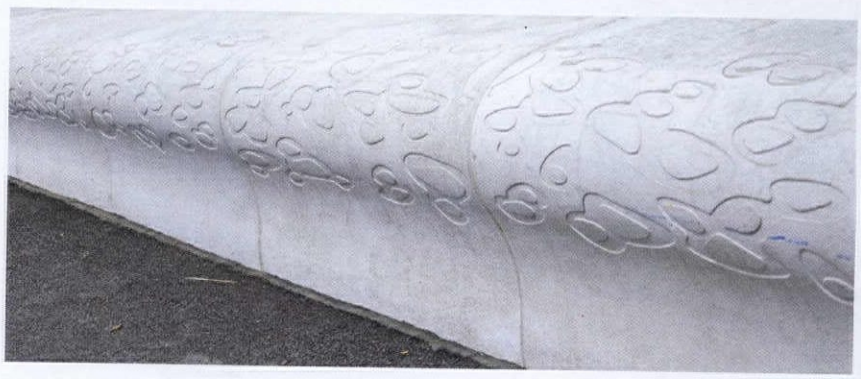
SNAP 283

Curb Appeal

LANDSCAPE ARCHITECTURE FIRM West 8's award-winning design for the Park and Public Spaces of Governors Island in New York Harbor is bold in every way. First, to assuage fears about rising waters, the planners elevated most of the island above the flood zone. Second, to enhance the visitor experience, they designed three-plus miles of striking white concrete curb edges that swell up to become benches in spots, ultimately leading parkgoers on a journey through the gently rolling space.

"We made this sinuous path system that pulls the horizons, the sea, and the Statue of Liberty into the forefront," says Jamie Maslyn Larson, principal of West 8. "The pathways draw you into them and make you want to explore. And the white really accentuates that experience."

The precast units were fabricated by Buffalo, New York–based Southside Precast Products using hundreds of custom molds. To add visual interest, West 8 created an organic, circular, low bas-relief of a "fish-eye" pattern for each 4-foot-long, 2-foot-deep section. *—Allison Craig*



ROAD TRIPS Sinuous paths on Governors Island (above), in New York Harbor, are outlined with precast-concrete curbs; the public artwork in the foreground is Mark Handforth's *Painted Phone*. The curbs, which swell to become benches in some spots, are intricately patterned (left).

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

CUSTOM CURVED BENCHES

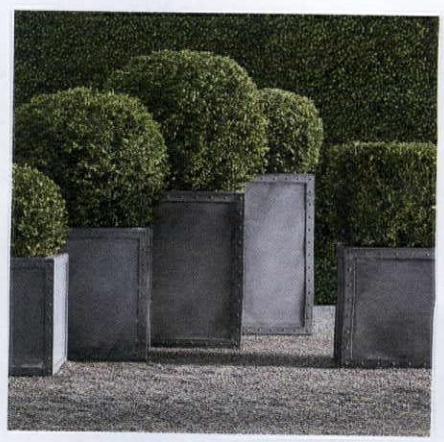
MANUFACTURER: Victor Stanley
PERFORMANCE: These modular benches can be combined to create continuous seating with backs. Various configurations, lengths, and radii are available. Constructed of recycled solid steel, they're finished in a choice of 10 standard colors.
PRICE RANGE: $$–$$$
APPLICATIONS: Parks, plazas, and other interior or exterior public spaces where ample seating is desired.
VICTORSTANLEY.COM
(SNAP #20)

CORDIA LITTER & RECYCLING RECEPTACLE

MANUFACTURER: Forms + Surfaces
PERFORMANCE: Available in a choice of wood-and-metal or all-metal variations. Standard colors are graffiti-resistant. Available as single-stream and split-stream, in top- and side-opening configurations, with a 36-gallon capacity.
PRICE RANGE: $$$
APPLICATIONS: For almost any traditional or contemporary interior, exterior, or transitional space.
FORMS-SURFACES.COM
(SNAP #21)

NAKOMA BACKED BENCHES

MANUFACTURER: Thomas Steele
PERFORMANCE: The bench is constructed of olive-brown South American ipe—which weathers to a beautiful silver gray—with a formed steel frame. Three times harder than oak, the wood resists weather, heavy use, and vandalism. Available in lengths of 6 and 8 feet, with full or half backs.
PRICE RANGE: $$
APPLICATIONS: Modern streetscapes, courtyards, and public spaces, as well as commercial and health-care facilities.
THOMAS-STEELE.COM
(SNAP #22)



ESTATE ZINC INDUSTRIAL RIVET PLANTER

MANUFACTURER: Restoration Hardware
PERFORMANCE: Available in five sizes, this planter is cut from heavy-gauge steel, welded by hand, and dipped in molten zinc. Oversize dome rivets accent the seams, calling to mind vintage aircraft. Over time, the weathered finish acquires a soft gray patina.
PRICE RANGE: $$$
APPLICATIONS: Ideal for upscale settings, like hotels, seeking an industrial aesthetic.
RESTORATIONHARDWARE.COM
(SNAP #23)

PHOTO CREDITS: SHEILA KIM

= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: SITE FURNITURE

JORGE ABICH
Associate Landscape Architect
Office of Cheryl Barton
San Francisco

"Site elements are trending toward an increased use of nontoxic materials. Many clients are requesting toxicity information for the products and product components used on their projects. Over the past year, we have investigated paints, sealants, plastics, wood laminates, and many other materials to ensure that specifications meet the clients' requirements. The Pharos database has taken sourcing nontoxic materials a step further by providing an online platform for healthy material selection."

TRISH BECKMAN
Principal
Field Paoli Architects
San Francisco

"There is a cultural shift in how public spaces are viewed and used, which is tied to more integrated technology in personal lives, the attitudes of up-and-coming generations about meeting and socializing, and ideas about doing what is good in the long run (such as preferring sustainable woods and nontoxic products and paying more for fair-trade goods). All these are key to selecting site furnishings."

NORD ERIKSSON
Principal
EPTDesign
Irvine, California

"The global marketplace, coupled with the explosion of the creative workplace, has really opened up our world relative to site furnishings. Walls in the workplace are coming down and people are working outside. We find that our commercial clients want site furniture to be flexible, to adapt to shifting needs. A table may be the focus of a short meeting over morning coffee, a casual lunch, and a team meeting later on. People work in Adirondack chairs or at stand-up bars—anywhere they can set down a laptop."

Think Global/Think Local

THE OBJECTIVE WAS to design a collection of site furniture that would benefit from both the efficiency of mass production and the craftsmanship and customization of local materials and assembly, to cater to local cultural preferences—all while reducing the carbon footprint through flat-pack shipping. The result is the new MultipliCITY line from **Landscape Forms**, created and developed in partnership with award-winning designer Yves Béhar and his studio **fuseproject**.

"For several years we have been doing research on efficiently delivering product globally, so the time is right," explains Landscape Forms President, Richard Heriford. "MultipliCITY will be equally at home in Buenos Aires, Barcelona, and Boston."

The minimalist series features seven elements: a backed and backless bench, table, bike rack, path light, and single-sided and double-sided litter receptacles. Standard mass-produced structural parts, such as cast-aluminum frames and brackets, may be combined with locally manufactured parts; for instance, seating and table surfaces can be specified in standard local hardwoods.

Thoughtful details include a standing-height wood surface on the bike rack for resting a phone or keys, and an optional table affixed to the back of a bench for holding a laptop or lunch. —*AC*

PHOTO CREDIT: COURTESY LANDSCAPE FORMS

GREAT OUTDOORS Designed by Yves Béhar and fuseproject for Landscape Forms, MultipliCITY includes a light, bike rack, bench, and two-sided receptacle.

SNAPSHOTS

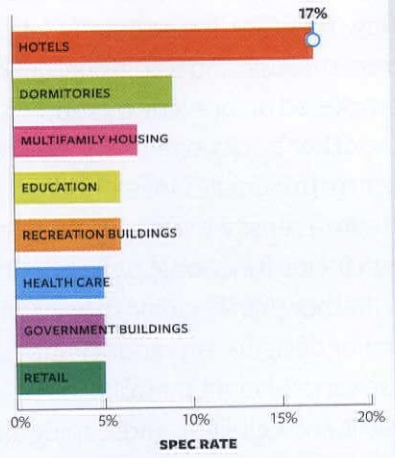
SNAP FACT

1.5

The number of **bike parking spaces Portland, Oregon, requires** per every one unit of new multi-dwelling residence.

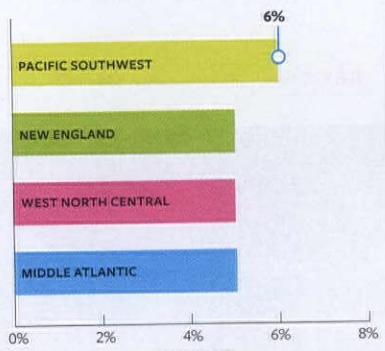
SOURCE: BICYCLE TRANSPORTATION ALLIANCE

SITE FURNISHINGS
SPEC RATE BY PROJECT TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

SITE FURNISHINGS
SPEC RATE BY GEOGRAPHY
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

SNAP FACT

9,000+

The number of **benches in** New York City's 843-acre **Central Park**.

SOURCE: CENTRALPARKNYC.ORG

SITE-FURNISHING MANUFACTURERS TO WATCH

- HUNTCO SUPPLY
- PETERSEN MANUFACTURING
- PLANTERS UNLIMITED
- A A A RIBBON BIKE RACK CO.
- AMERICAN BICYCLE SECURITY COMPANY

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

Safe Passage

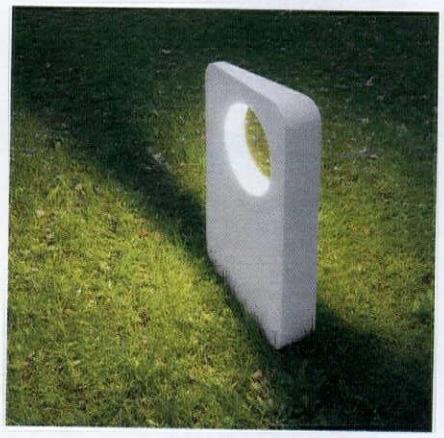
OUTDOOR PUBLIC SPACES are doing more with less light. Take the University of Pennsylvania's Shoemaker Green commons, which averages a modest 0.4 fc to 1.5 fc yet still provides enough brightness for safe circulation at night and gatherings at athletic events.

The 3.75-acre green space was illuminated by New York City–based Tillett Lighting Design. Both a pass-through and traditional quad, the commons is bracketed on one side by subtly lit Penn Park and on the other by city streets with glary lanterns. According to firm principal Linnaea Tillett, the challenge was to create a sensitive transition within guidelines while enhancing functionality, aesthetics, and sustainability.

Rather than flooding the site with light, explains senior designer Alexandra Pappas, the firm chose to use varied-height metal halide pole lights to illuminate paths and highlight landscaping and architecture, establishing a sense of place. Sources are shielded and fixtures precisely aimed to reduce glare and minimize light spillage. The latter was of particular concern, as Shoemaker Green is a pilot project for the Sustainability Sites Initiative. *—Alice Liao*

THE EVENING POST At UPenn's Shoemaker Green (with Franklin Field in the background), Tillett Lighting Design opted for varied-height pole lights that provide enough illumination for students' safe circulation while addressing sustainability issues.

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END



ERACLEA

MANUFACTURER: Artemide
PERFORMANCE: A contemporary take on the bollard, Eraclea emits white 4,000K LED light from a circular cutout. Emission is bidirectional and energy consumption is 8W. It is made of die-cast concrete and mounts to the ground via a galvanized steel plate.
PRICE RANGE: $$$
APPLICATIONS: Well suited to path lighting, the fixture measures 31½ inches high, 20 inches wide, and 5⅛ inches deep.
ARTEMIDE.US
(SNAP #24)

CADET

MANUFACTURER: Beacon Products
PERFORMANCE: This floodlight can be specified in six NEMA distributions—2x2, 4x4, 5x5, 6x6, 5x3, and 3x5—minimizing light trespass. Its bezel system allows the light output to be adjusted in the field to 100%, 75%, 50%, or 25%.
PRICE RANGE: $$
APPLICATIONS: The die-cast aluminum fixture is ideal for use in commercial lighting applications such as columns, flags, statues, security, and landscape.
BEACONPRODUCTS.COM
(SNAP #25)

IPNOS

MANUFACTURER: Flos
PERFORMANCE: This outdoor floor lamp, composed of extruded aluminum, produces dimmable, diffuse light via LEDs concealed within its top edges.
PRICE RANGE: $$$
APPLICATIONS: The sculptural piece, which measures 27⅜ inches high and 13⅘ square, is offered in aluminum black, aluminum bronze, and natural finishes to complement a variety of outdoor settings. Indoor version available.
FLOSUSA.COM
(SNAP #26)

LIGHTVAULT 8

MANUFACTURER: Kim Lighting
PERFORMANCE: Thanks to Bluetooth technology, this in-grade LED fixture can be remotely operated (dimmed and aimed) via mobile device. Its light distribution is customizable with optional hex louver, prism lens, and spread lens filters.
PRICE RANGE: $$
APPLICATIONS: Available in spot, wall-wash, and narrow flood versions, the fixture comes in a variety of housings. Multiple color temperatures are offered.
KIMLIGHTING.COM
(SNAP #27)

= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: EXTERIOR LIGHTING

FAUZIA KHANANI
Principal/Founder
Föz Design
New York City

"Today there's a shift in residential outdoor lighting, from being purely utilitarian to setting a mood or enhancing the ambience of an outdoor space. Instead of just providing sightlines, the field is becoming more like interior lighting, where the fixtures themselves are part of the design. Decorative fixtures were never a consideration for outdoor lighting, but now their aesthetics have improved and they're being made out of materials that allow them to be left outside."

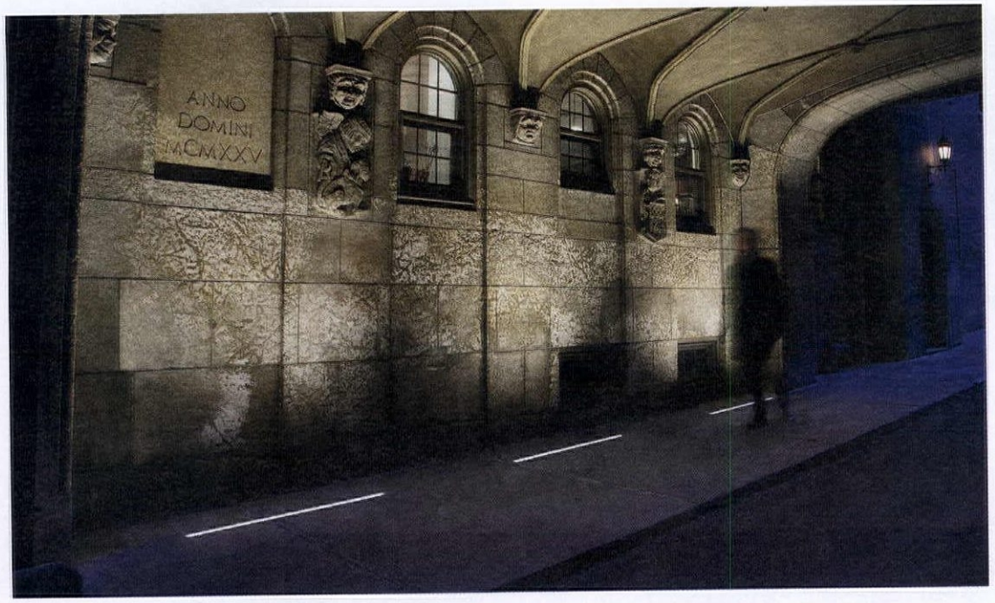
DOMINGO GONZALEZ
President
Domingo Gonzales Associates
New York City

"The sustainability movement in this country is concerned with not only making outdoor lighting more energy efficient and environmentally friendly but also understanding aspects of the dark-sky movement. Light that's emitted into the sky is actually wasted energy and money. Simply stated, minimizing the amount of light put into the sky can be money saved."

LENI SCHWENDINGER
Associate Principal
Arup
New York City

"With LED fixtures, lenses and the mounting depth of the light source is important. For example, better-quality downlights recess the lamp high up in the housing so that you don't see the source. But in an outdoor streetlight, recessing diodes makes light emission and uniform distribution more challenging. Consequently, the diodes are often at the front of the lighting fixture, which creates glare."

Designing with Light



NIGHT LIGHTS Lumenfacade Inground by Lumenpulse (rendered photo left) discreetly grazes a wall with white 3,500K LED light. The fixture's plug-and-play connection simplifies installation and protects against water infiltration.

ONCE A DISCREET way to uplight building facades or articulate trees, in-grade lighting fixtures are now also being used as decorative elements in outdoor projects. Sleeker and often linear, the fixtures typically appear in multiples to form patterns that extend the life and identity of a public space long after the sun sets.

One such installation, by **Cooper, Robertson & Partners**, is in New York City's Zuccotti Park (previously known as Liberty Plaza Park). The AIA Honor Award–winning design features a walkway leading to the new World Trade Center that is accented with granite benches and a grid of 500 milk-white glass pavers. At sundown the pavers give off a glow thanks to illumination cast from below by custom **B-K Lighting** linear LED fixtures.

Color-changing in-grade LED lighting has added a dynamic, contemporary edge to Plaza del Torico, a historic public square in Teruel, Spain. Executed by **B720 Fermín Vázquez Arquitectos** and lighting design firm **Artec3**, the installation scatters more than 1,200 linear fixtures around a fountain in a fluid design inspired by a subterranean reservoir.

For the Robert F. Kennedy Inspiration Park in Los Angeles, lighting design firm **Horton Lees Brogdon** employed fiber optics to re-create the constellations showing on the night of Kennedy's birth. The lighting system, supplied by **Visual Lighting Technologies**, is composed of a 150-watt metal halide illuminator with a twinkle wheel and 175 acrylic tubes embedded in the concrete. —*AL*

PHOTO CREDIT: COURTESY PURE LIGHTING

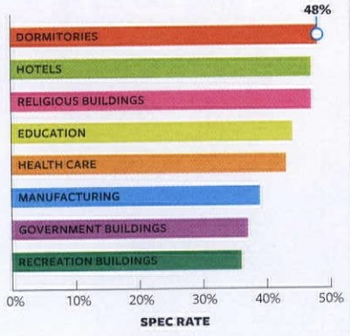
SNAPSHOTS

SNAP MATH

In 2012, **streetlight** installations—such as tunnel and roadway illumination—accounted for **54% of the total revenue** for the LED outdoor lighting market.

SOURCE: STRATEGIES UNLIMITED

EXTERIOR LIGHTING
SPEC RATE BY PROJECT TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

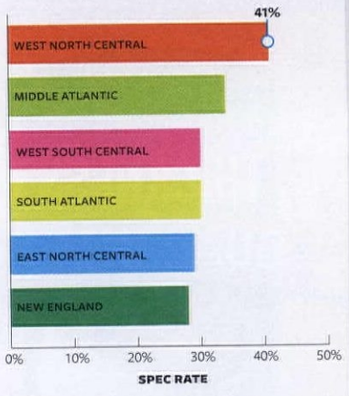
NEW MATH

$57.8 BILLION

By 2025, the number of streetlights will grow to 339.9 million, and the **LED streetlight** market is predicted to reach $57.8 billion.

SOURCE: NORTHEAST GROUP, "GLOBAL LED AND SMART STREET LIGHTING: MARKET FORECAST"

EXTERIOR LIGHTING
SPEC RATE BY GEOGRAPHY
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

EXTERIOR LIGHTING MANUFACTURERS TO WATCH

- CREE
- VIVID LEDS
- NILAND COMPANY
- BOCK LIGHTING
- ROCKY MOUNTAIN HARDWARE

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

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Sarnafil
MEMBRANE
THICKNESS
GUARANTEE

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The Writing's on the Walls

VIEW IT FROM THE STREET, and the curving facade and portico entrance of the stately Neoclassical stone building in Berlin hints at its original use: The 1930s structure, designed by Johann Emil Schaudt, once housed the Royal Danish Embassy. But view it from the rear, where it faces lush Tiergarten park, and it assumes another aesthetic identity altogether—one befitting its current status as the boutique hotel Das Stue.

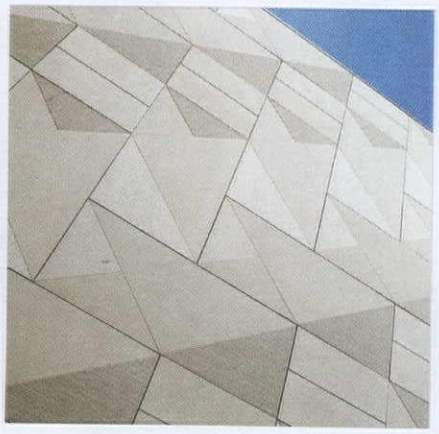
Dominating the elevation is an angular new wing. Designed by Potsdam-based Axthelm+Rolvien Architekten, it is clad in concrete panels etched with a large-scale floral pattern reminiscent of William Morris's work. Hering Bau, a German company specializing in systematized construction solutions, devised the fabrication process in which a special surface retardant is applied to the panel mold before the cement is poured in. Upon curing, the retardant is washed away, lifting off a thin layer of concrete and creating high-contrast, low-relief images on the surface. *—Lisa Caldwell*

GREAT RELIEF The stylized floral pattern etched on the concrete walls of Das Stue, a boutique hotel in Berlin, references the nearby public gardens of Tiergarten.

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

CHISELED CAST STONE UNIT

MANUFACTURER: CalStar
PERFORMANCE: This sustainable masonry is manufactured with up to 18% recycled material, eliminating the need to use Portland cement, calcium silicate, and kiln-firing processes. LEED eligible; EPD available.
PRICE RANGE: $$
APPLICATIONS: Made from molds taken of real stone, each limestone-like piece is labeled to avoid visual repetition in installations. The units are 24 inches long by 4, 8, 12, or 16 inches high; corner units are also available.
CALSTARPRODUCTS.COM
(**SNAP #28**)

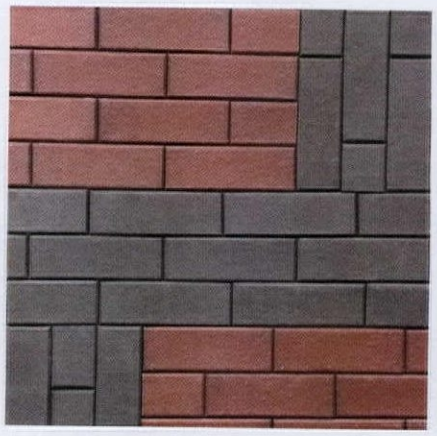


VECTR FACADE PANELS

MANUFACTURER: Taktl
PERFORMANCE: ASTM C1186 Grade IV certification.
PRICE RANGE: $$
APPLICATIONS: For recladding and new construction, these ultra-high-performance cast-concrete panels install quickly. Formats include corners, screens, louvers, and fins in addition to wall panels. Offered in sizes up to 4 by 10 feet; nine standard textures and 10 colors are available, as are custom designs.
TAKTL-LLC.COM
(**SNAP #29**)

MODULINE PAVER

MANUFACTURER: Belgard Hardscapes
PERFORMANCE: Rated for light, regular, and heavy vehicular traffic as well as pedestrian traffic. ADA compliant.
PRICE RANGE: $
APPLICATIONS: Developed to provide design versatility, these pavers are offered in three- and four-inch increments, allowing complex layouts to be achieved with exactitude. Available in nine colors and several textures.
BELGARDCOMMERCIAL.COM
(**SNAP #30**)



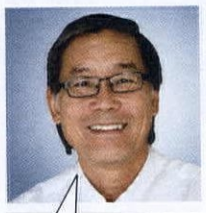
ESPLANADE CLAY PAVER

MANUFACTURER: Pine Hall Brick Company
PERFORMANCE: The pavers' permanent, through-body color will not fade. Low water absorption: 5.19%. Passes Canadian CSA-A231.2 freeze/thaw test in saline solution. Compressive strength: 13,000 pounds psi.
PRICE RANGE: $$
APPLICATIONS: Measuring 2¾ inches by 8⅜ inches, the narrow rectangular format lends itself to a range of laying patterns for hardscape applications.
PINEHALLBRICK.COM
(**SNAP #31**)

PHOTO CREDIT: COURTESY AXTHELM+ROLVIEN ARCHITEKTEN

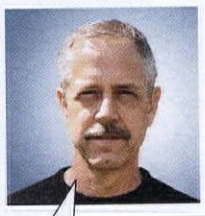
= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: CONCRETE & MASONRY



FU-TUNG CHENG
Founder
Cheng Design
Berkeley

"Concrete is to architecture as cotton is to clothing. It is a ubiquitous material that shape-shifts in function, dimension, form, and texture depending on the molds it is vested into. Today, with the advent of self-compacting cement, ductile concrete, fiber-reinforced concrete, high-performance concretes, Shotcrete, fabric-formed concrete, and myriad form types from CNC-formed Styrofoam molds to polyurethane rubber molds, there are endless opportunities to create shapes and textures to fit the contemporary aesthetic."



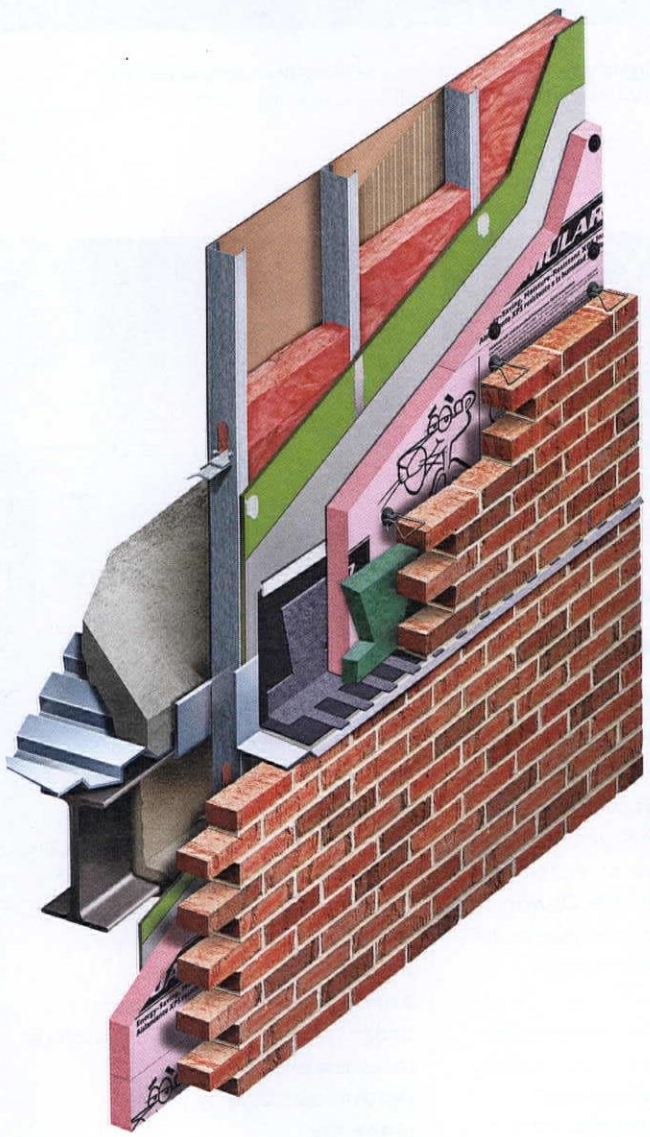
TOM DIEHL
Principal
Diehl & Associates
Houston

"As an architect in Houston, I have to deal with the consequences of intense sun, heat, and humidity on various building materials. Masonry products, in particular brick, have proven to be the best option for combating the effects of these climate conditions over time in both performance and aesthetics. Masonry also has an added environmental bonus in not only its ability to reduce the heat load on the wall it is a part of but also the natural 'vent wall' quality it possesses when constructed as a veneer."

WHITNEY SANDER
Principal
Sander Architects
Venice, California

"It's a pleasure working with exposed concrete. All the great modernist masters appreciated the expressive potential of exposed concrete, whether Brutalist in style (Le Corbusier) or finely surfaced (Tadao Ando). Exposed concrete has recently become a luxury material so its use is rarer. But concrete ties a project immediately to the history of building and is essential to any architectural design practice."

Behind the Scenes



ALTHOUGH PREBUILT, UNIFIED WALL assemblies have been popular in Europe for quite a while, the United States is just now warming up to the idea. Offering code-compliant, warranty-covered, and compatible components in one system affords quick and uncomplicated installation compared to traditional specifying and building methods. What's not to like?

A consortium of proven, reputable manufacturers has developed such a system for steel-stud walls meant to be used with masonry veneer. Called **CavityComplete**, it incorporates products and materials from **Owens Corning** (fiberglass and rigid foam insulation), **Rodenhouse** (fasteners for insulation), **Tremco** (vapor-permeable air barrier), **Heckmann Building Products** (masonry anchoring system), and **Mortar Net Solutions** (sealants and moisture management for masonry cavity walls).

The components have been tested in concert and meet standards for fire containment, air leakage, thermal resistance, and water penetration. Packages that address the performance requirements of specific climate regions are also available.

Particularly compelling is the warranty offered by CavityComplete: Pending acceptance of a project profile and submission of a project-completion notice, the company will issue a 10-year limited material and replacement warranty. The masonry veneer, steel studs, and gypsum board are neither included in the system nor covered by the guarantee. —*LC*

HOW TO FILL A (WALL) CAVITY The CavityComplete wall system combines convenient, all-in-one specifications for increased build speed.

ILLUSTRATION CREDIT: COURTESY OWENS CORNING

SNAPSHOTS

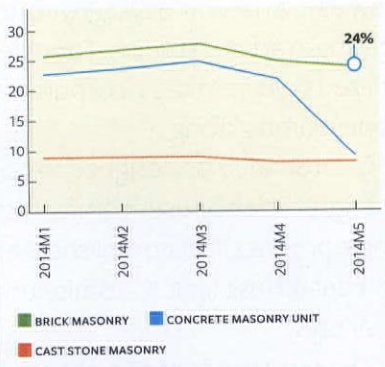
SNAP MATH

$30 BILLION

The **value of ready-mixed concrete** produced in the United States in 2013.

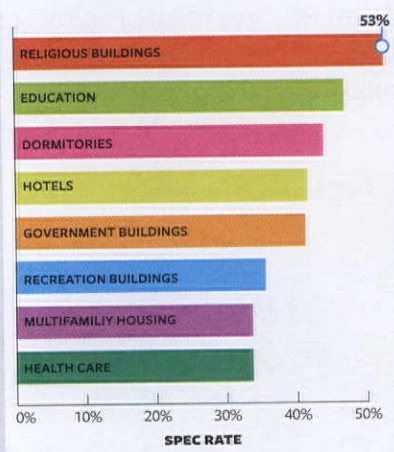
SOURCE: READY MIXED CONCRETE ASSOCIATION

MASONRY
SPEC RATE BY TYPE
(JANUARY 2014 TO MAY 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

BRICK MASONRY
SPEC RATE BY PROJECT TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

NEW MATH

$3.02 BILLION

Estimated **2014 sales of precast concrete products** in the building and landscaping sectors.

SOURCE: NATIONAL PRECAST CONCRETE ASSOCIATION

STONE MASONRY MANUFACTURERS TO WATCH

- KRUKOWSKI STONE CO.
- VALDERS STONE & MARBLE
- ACME BRICK COMPANY
- VETTER STONE CO.

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

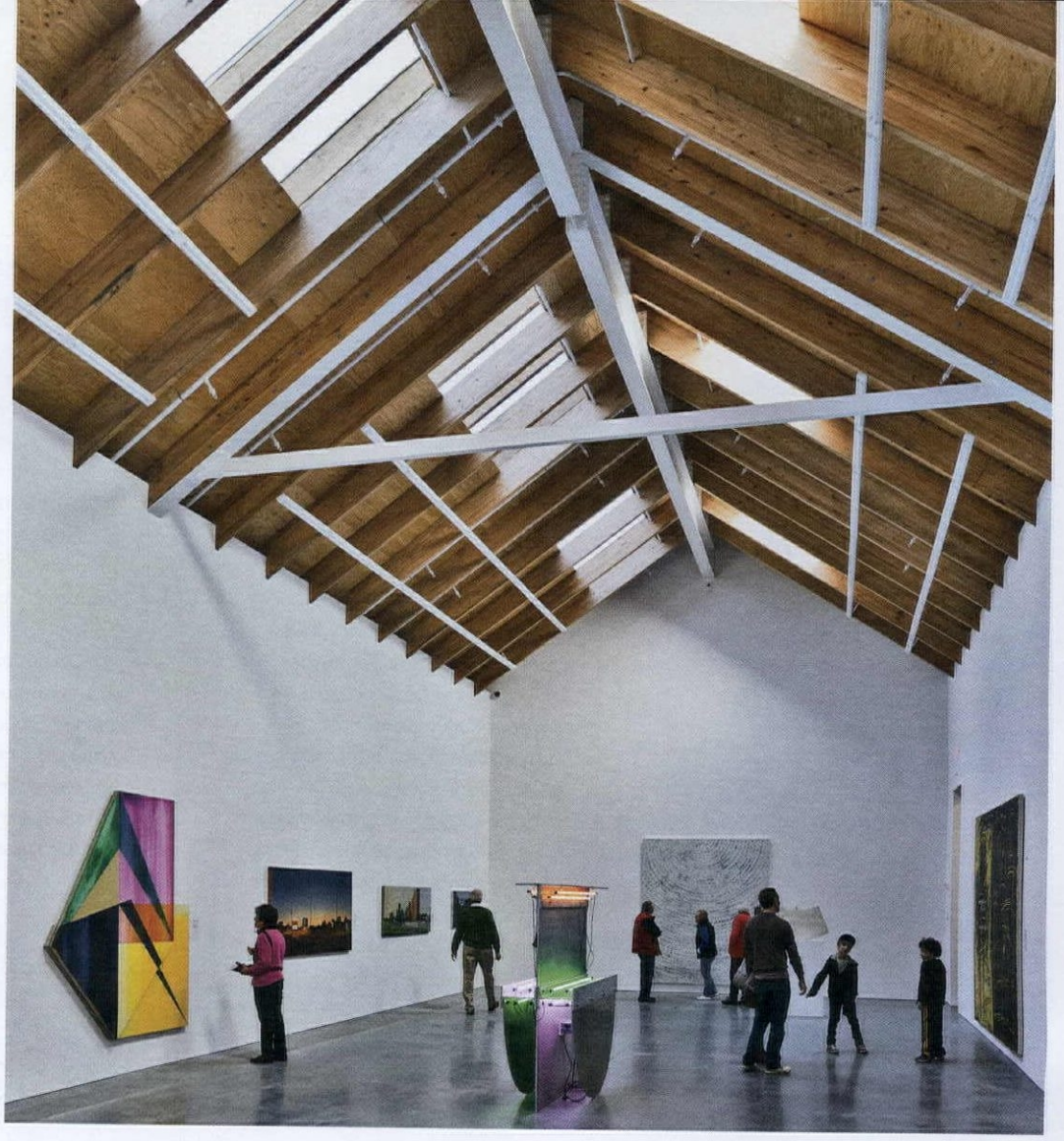
Art, Shown in the Best Possible Light

WHEN DESIGNING THE Parrish Art Museum in Water Mill, New York, architects Herzog & de Meuron and daylighting engineers from ARUP took a clear stand: Art should be viewed in a natural, daylit environment, similar to the lighting in artists' studios. To achieve this objective, they utilized skylights that incorporate Panelite's ClearShade honeycomb glazing.

ClearShade was designed to optimize daylighting, energy efficiency, user comfort, and aesthetic goals in a single product. It accomplishes this by providing up to 70 percent diffuse light transmission while reflecting direct solar rays.

The result, as quantified by the Lighting Research Center (LRC) in Troy, New York, is that artificial light was not needed for approximately 81 percent of the time the museum was open in spring 2013.

The verdict on user comfort and aesthetics? According to the LRC, 73 percent of visitors considered the illumination of the Parrish galleries superior to that of other museums. *—Allison Craig*

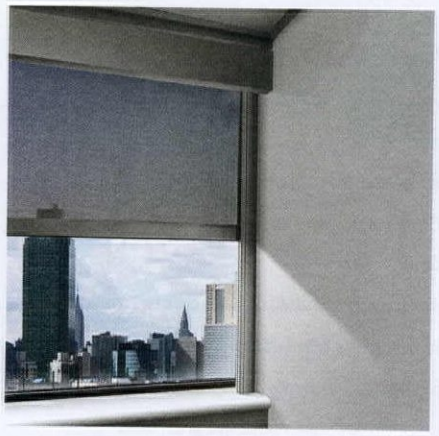


THROUGH THE ROOF ClearShade honeycomb glazing from Panelite was integrated into the skylights of the Parrish Art Museum—a project by Herzog & de Meuron in Water Mill, New York—to diffuse natural light into the space.

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

RADIO WINDOW SENSOR

MANUFACTURER: Lutron
PERFORMANCE: Working with Lutron's Hyperion solar-adaptive shading technology, it operates via a wireless sensor, opening shades in cloudy conditions and lowering them when it's overly bright. Available as a window- or mullion-mount pair.
PRICE RANGE: $$
APPLICATIONS: Classrooms, private or open offices, and conference rooms.
LUTRON.COM
(SNAP #32)



SHADELOC

MANUFACTURER: MechoSystems
PERFORMANCE: This shade system uses zippered edges in side channels to hold the shade cloth securely in place and eliminate light gaps between fixtures to deliver continuous solar control and added privacy. Installs easily with separate mounting bases and SnapLoc channels.
PRICE RANGE: $$$
APPLICATIONS: Ideal for a variety of settings, the system is most widely used in the health-care and hospitality industries.
MECHOSYSTEMS.COM
(SNAP #33)

CUBIST STAINLESS-STEEL MESH

MANUFACTURER: Cambridge Architectural
PERFORMANCE: Flexible stainless-steel mesh has an open area of 83 percent, a weight of 1.85 pounds per square foot, and a maximum width of 144 inches. Open mesh offers benefits such as reduced glare inside buildings and reduced solar heat gain.
PRICE RANGE: $$
APPLICATIONS: The versatile material can be used for solar shading, building cladding, or as an interior wall or ceiling panel.
CAMBRIDGE-ARCHITECTURAL.COM
(SNAP #34)

DAYLIGHTER SHADE

MANUFACTURER: Indoor Sky
PERFORMANCE: This shade system provides ideal interior daylight levels while minimizing glare and solar heat gain. The integrated light shelves use Alkenz solar-screen fabric in a choice of weaves, textures, colors, and openness levels.
PRICE RANGE: $$
APPLICATIONS: Well suited to most project types, from classrooms and offices to residential spaces.
INDOOR-SKY.COM
(SNAP #35)

PHOTO CREDIT: IWAN BAAN

= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: DAYLIGHTING & SUN CONTROL

SARAH MARVEZ
Architect
Gensler
Denver

"We're seeing an emphasis on local control: People want to be able to fine-tune their work space or the light levels in their hotel room, for example. We are also seeing a more nuanced approach to daylighting—breaking down daylighting strategies based on facade orientation, adjacent building shading, and possible sources of glare. Daylight is great, but it also comes with glare, heat gain, and other issues. We are trying to mitigate these factors while providing the best possible comfort levels for occupants."

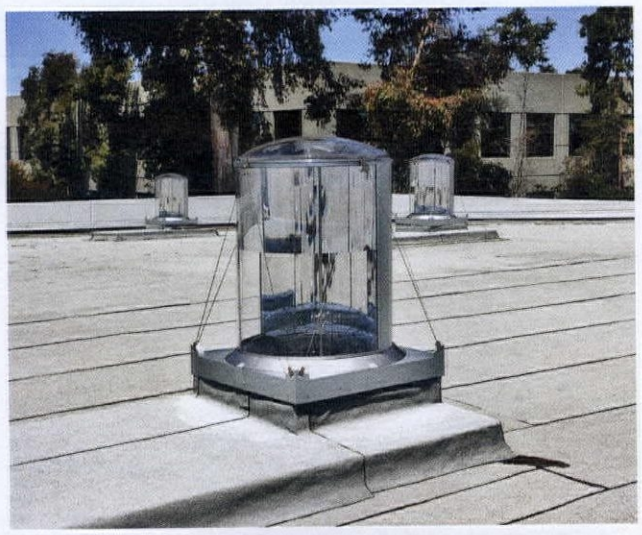
SERGIO COSCIA
Principal
Coscia Moos Architecture
Philadelphia

"There seems to be a convergence between a heightened sensitivity to the environment coupled with the advent of what I would call background technology. This is technology that is easily manipulated by the user and operates in the background, free of interference. This can range from wireless thermostats controlled over the Internet to shading devices and lighting controls that automatically respond to changes in their surroundings. We're excited by the approach that Lutron has taken to daylight autonomy."

ALAN DOGGETT
Associate Architect
Cuningham Group Architecture
Minneapolis

"Our go-to products are roller shades with 1 percent to 5 percent openness depending on the exposure. These permit a view outside while cutting down most of the direct sunlight or glare. In addition, we tune the glazing by exposure for visual light transmittance and heat gain. We can also leverage this to get better control of the view and daylight level glazing. These simple strategies add little to no cost to the project and are a functional daylighting baseline."

A System of Tubes



TRICKLE DOWN SkyVault Series Collector (top) and SkyVault Series Amplifier (above) catch and reflect light down into interior spaces.

PHOTO CREDIT: COURTESY SOLATUBE

A TOTALLY TUBULAR device, SkyVault Collector by **Solatube International** debuted at the AIA Convention in Chicago this June, demonstrating natural illumination for larger-volume daylight-challenged spaces: big commercial spaces with lofty ceilings such as airports, convention centers, warehouses, manufacturing facilities, and retail centers.

At the core of the new series is the Solatube M74 DS (daylighting system), boasting a base unit with a 29-inch opening to the sky—nearly two times the aperture and collection capability of previous models. The enlarged aperture allows more light to enter an area for higher daytime illuminance and/or greater spacing between units with fewer roof penetrations. Patented Raybender technology drives the captured light through the dome and down the tube using reflective material, while built-in LightTracker with Cool Tube technology mitigates the solar heat gain by filtering out infrared rays.

Another safeguard against raised interior temperatures from daylighting is an insulated (R6) and sealed curb cap that minimizes heat gain or loss through the roof opening. A dual-dome option further increases thermal efficiency.

Designed to minimize labor and packaging waste, the SkyVault Series offers preassembled roof and diffuser modules. A proprietary, screw-free Tab-Lock Connection System with Tube Belts eliminates unsightly, labor-intensive seam tape. And nesting the components and shipping them on pallets reduces packaging. —*AC*

SNAPSHOTS

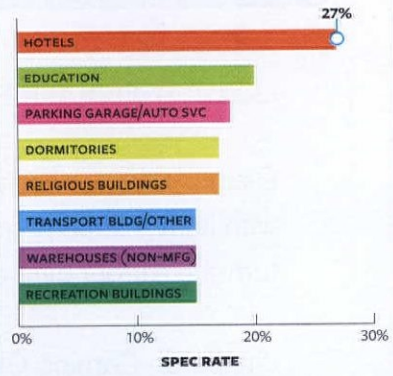
SNAP MATH

21%

The **improvement in learning rates** shown by 21,000 California elementary school students in classrooms with the most daylight compared to those in classrooms with the least daylight.

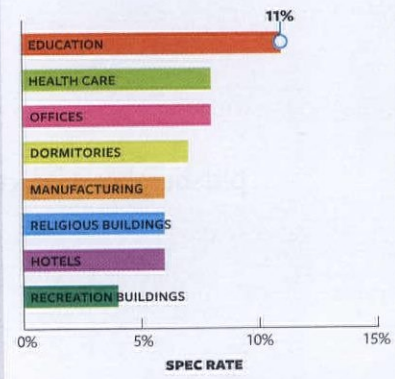
SOURCE: CALIFORNIA ENERGY COMMISSION

SKYLIGHTS & TRANSLUCENT WALLS
SPEC RATE BY PROJECT TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

AUTOMATIC SHADES & BLINDS
SPEC RATE BY PROJECT TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

SNAP MATH

UP TO 1/3

The amount of **energy costs that commercial buildings can reduce** through the optimal use of daylighting.

SOURCE: U.S. DEPARTMENT OF ENERGY, FEDERAL ENERGY MANAGEMENT PROGRAM

EXTERIOR SUN CONTROL DEVICE MANUFACTURERS TO WATCH

- MCNICHOLS CO.
- ARCHITECTURAL GRILLES & SUNSHADES
- VICTORY AWNING
- RUSKIN
- ARCHITECTURAL SHADE PRODUCTS

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

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MADE IN AMERICA

SNAP 309

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

Raising the Car

A NEW TREND is sweeping the face of vertical transportation systems: destination dispatch. Located in the elevator lobby, just like the standard up or down call button, destination dispatch systems require users to select their intended floor prior to boarding. The system then directs the user to an assigned elevator door, facilitating transport.

The main draw is efficiency in terms of speed, resources, and floor plate. Pooling users who are traveling to similar floors results in faster transport than conventional dispatch and helps reduce the number of elevators needed. Fewer elevators in the building translates to gains in rentable square feet. But sweetening the argument for this technology is its sustainability claims: Cutting down on the number of elevators reduces the amount of raw materials needed to build and maintain the cars and associated shafts. Whether keypad, touchscreen, or touchless operation is used, destination dispatch is building transportation optimized. —*Laurel Petriello*

SCHINDLER SOLAR ELEVATOR

MANUFACTURER: Schindler
PERFORMANCE: Up to 100% of this elevator's power needs are supplied by rooftop solar panels working in tandem with a hybrid energy manager (HEM).
PRICE RANGE: $–$$
APPLICATIONS: Suitable for residential and low-rise buildings looking to reduce energy use, or in areas with unstable power grids.
SCHINDLER.COM
(SNAP #36)

COMPASSPLUS

MANUFACTURER: Otis
PERFORMANCE: This destination management system results in up to 50% faster trips than conventional dispatch systems can offer.
PRICE RANGE: $$
APPLICATIONS: Touch-screen or -pad fixtures are aluminum in black or silver finish to suit modern elevator lobbies.
OTISWORLDWIDE.COM
(SNAP #37)

ENDURA MRL

MANUFACTURER: ThyssenKrupp
PERFORMANCE: Hydraulic elevator with machine room–less technology; nearly adjustment-free electronic valve offers improved leveling accuracy; it uses USDA biopreferred Enviromax (95% petroleum-free, canola-based hydraulic fluid).
PRICE RANGE: $–$$
APPLICATIONS: Designed for use in low-rise commercial projects with two to three stops, such as education, retail, hospital, mixed-use, and office buildings.
THYSSENKRUPPELEVATOR.COM
(SNAP #38)

IMAGE CREDIT: COURTESY KONE

GOING UP
Featuring four user-interface options, a durable, easy-to-clean touch screen, and clear directional guidance, the Kone Polaris Destination Control System works with Kone or third-party access-control systems.

SNAP BACK

EDDIE PORTIS
Studio Principal and Partner
Little
Charlotte

"One of the biggest factors for the success of the destination dispatch system, other than efficiency, is its 'techy' characteristics. While the industry is still working on making these more aesthetically pleasing, the nature of the system is similar to that of an iPad or another tablet, which can appeal to the future tech-savvy generations entering the workforce."

CAMERON TREFRY
Regional Director
Ware Malcomb
Chicago

"A big trend we are seeing is the use of the machine room–less [MRL] elevator. This is reducing the amount of real estate used for the elevator and giving more floor space back to the building owner. Currently, our favorite products are the hole-less MRL elevators for smaller applications. It is a small-footprint elevator that is a great fit for a two-story application."

JON PICKARD
Principal
Pickard Chilton
New Haven

"When designed and sized properly, these vertical transportation systems should be almost invisible: They should seamlessly, effortlessly, and quietly convey the occupants to their destination. Ironically, no one pays much attention to [these systems] until they malfunction."

SNAPSHOTS

CUSTOM ELEVATOR-CAB AND -DOOR MANUFACTURERS TO WATCH

THYSSENKRUPP
FULLER-PHOENIX ARCHITECTURAL PRODUCTS
SCHINDLER

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

SNAP MATH

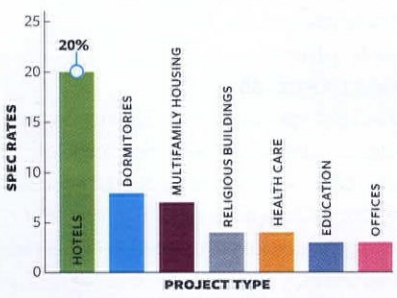
$8.3 BILLION

Worldwide **sales of elevators and moving stairways** grew to about $8.3 billion in 2012.

SOURCE: STATISTA

MACHINE ROOM–LESS ELEVATORS

SPEC RATE BY PROJECT TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

RESIDENTIAL ELEVATOR MANUFACTURERS TO WATCH

SCHINDLER
GARAVENTA LIFT
OTIS

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

SNAP FACT

The **elevators at Willis Tower** in Chicago operate at a speed of up to **1,600 feet per minute**, making them among the fastest in the world.

SOURCE: THESKYDECK.COM

= ECO-FRIENDLY ATTRIBUTES

Climate, Controlled

THE SMART THERMOSTAT category is heating up. This summer Honeywell is releasing a device for residential use called Lyric. Its geofencing feature links the unit to a smartphone's locator function, activating the thermostat from a distance of 500 feet to seven miles. Proximity-based responsiveness sets this apart from other thermostats that, while eminently programmable, don't actively anticipate the homeowner's arrival or departure in real time. When the unit is set, a fine-tuning algorithm factors in indoor and outdoor temperatures, humidity levels, and weather conditions to determine the optimal comfort levels.

Honeywell has a powerhouse partner in this venture: Apple. The manufacturer is participating in Apple's HomeKit, a home-automation package controlled, of course, via iPhone. (The stand-alone product is also compatible with Android.) Also involved are Philips Lighting and Kwikset locks, which combined with Apple would make the nightly routine of shutting off lights, locking doors, and lowering the thermostat a one-touch operation. *—Lisa Caldwell*

HOMING INSTINCT In addition to controlling indoor temperatures, the Lyric thermostat displays a 12-hour weather forecast, maintenance alerts, and monthly performance reports.

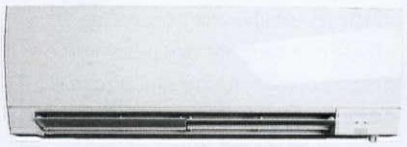
KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

HAIKU FAN WITH SENSEME

MANUFACTURER: Big Ass Fans
PERFORMANCE: Environmentally friendly, with bamboo blades and motion-activated LED lamps, the popular fan series is now offered with SenseME technology. SenseME monitors temperature and humidity and automatically adjusts the fan to respond to changing conditions. Speed and light settings can be controlled by smartphone.
PRICE RANGE: $$
APPLICATION: For residential use.
BIGASSFANS.COM
(**SNAP #39**)

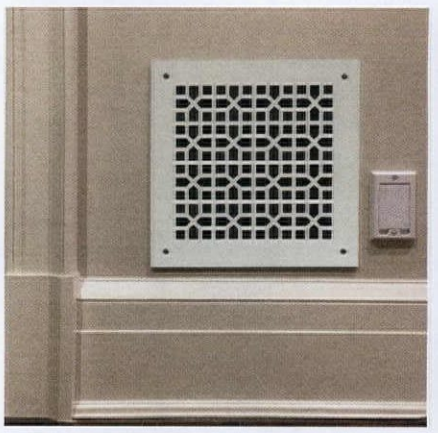
SIGNATURE THERMOSTAT

MANUFACTURER: Nuheat
PERFORMANCE: Dual voltage 120v/240v; built-in ground-fault circuit interrupter. Compatible with iOS, Android, and Web browsers.
PRICE RANGE: $$
APPLICATIONS: In residential settings, this programmable Wi-Fi thermostat controls up to 16 floor-heating zones. Suitable for tile and stone floors, it has an 82°F temperature-limiting feature for laminate and engineered-wood floors.
NUHEAT.COM
(**SNAP #40**)



H2I MSZ-FH DUCTLESS COOLING AND HEATING SYSTEM

MANUFACTURER: Mitsubishi Electric
PERFORMANCE: 30.5 SEER rating; Energy Star qualified; meets U.S. Passive House standards.
PRICE RANGE: $$
APPLICATIONS: Available in 9-, 12-, and 15-BTU versions for residential use.
MITSUBISHIPRO.COM
(**SNAP #41**)



ORIENT PERFORATED GRILLE

MANUFACTURER: Architectural Grille
PERFORMANCE: Available in aluminum, brass, bronze, stainless steel, and steel, the grille features a 2-inch pattern repeat, with 48% open area.
PRICE RANGE: $
APPLICATIONS: Can be used as vent covers or decorative screening. Numerous colors and finishes on offer.
ARCHGRILLE.COM
(**SNAP #42**)

= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: HVAC

ROBERT SKOLOZDRA
Partner
Svigals + Partners Architecture + Art
New Haven

"To optimize value per square foot, we're designing lab and R&D spaces for maximum flexibility and rapid adaptability. At Yale, for example, we retrofitted a lab's existing MEP infrastructure with plug-and-play 'pods' throughout the floor and ceiling. Combined with flexible casework, rolling cabinets, and other pre-engineered solutions, the renovated space accelerates move-in schedules for new teams. The HVAC systems are highly efficient and have excellent life-cycle benefits. But the strategy also reduces facility adaptation costs."

DAN WATCH
Principal, Science and Technology Global Market Leader
Perkins+Will
Washington, D.C.

"While laboratory projects are notorious energy hogs, our latest federal project for the National Institutes of Health is one of the first to address President Obama's initiative for energy-efficient buildings. It uses sustainable HVAC technologies and designs that are widely applicable in corporate and institutional settings. Chilled beams are now a proven technique for improving efficiency and comfort, by aiming warmth or cooling precisely where it is needed, with good life-cycle benefits."

PAUL ALTER
Principal
Lee H. Skolnick Architecture + Design Partnership
New York City

"To create more energy-efficient buildings, we're using sustainable HVAC technologies and designs that are widely applicable in museums and institutional or corporate settings. This includes geothermal wells and ground-source heat pumps where possible. We also use more LED lighting to reduce heat loads—especially in museums, which have high levels of lumens per square foot. Last, there is growing proof that chilled beams are an energy-efficient way to add comfort."

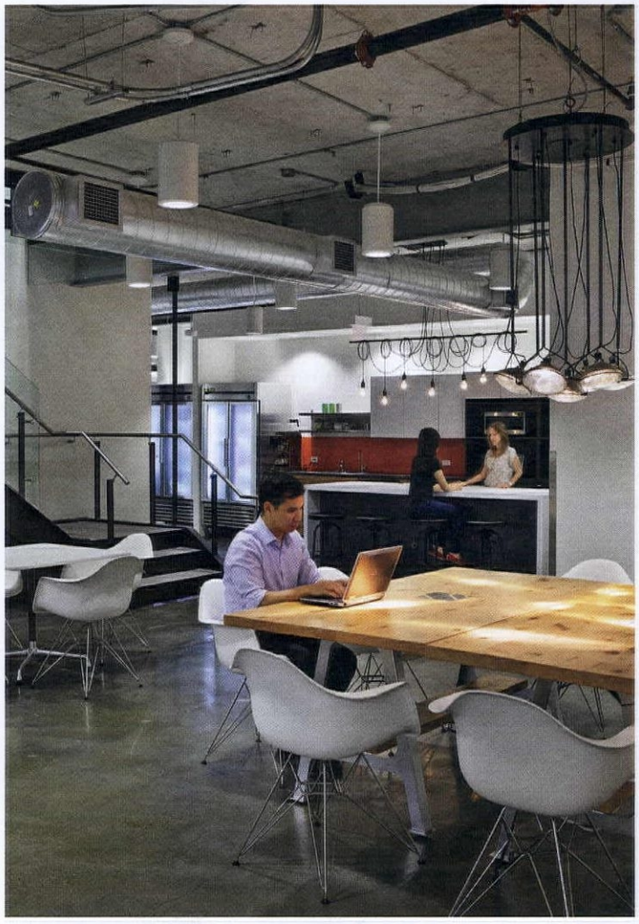
Cultivating Cool

THE ARTIST-LOFT AESTHETIC, replete with unfinished walls, wood floors, and exposed metal ducts, has predictably found plenty of mainstream architectural adopters. But there's more than an edgy appearance at issue; it's critical that the function of the HVAC system not be impaired.

Under certain circumstances, using spiral ducts can pose some advantages over the traditional rectangular sheet-metal product. Prime among them is enhanced performance and, in turn, reduced energy costs. Because the round format can be fabricated in longer runs than the rectangular one, it has fewer joints and connections, resulting in a more efficient air flow, with less friction loss. Fewer seams also decrease the opportunity for air leakage, which can tax the HVAC system as well as compromise interior air quality.

Noise is another issue to consider when planning an exposed duct system, particularly in a workplace setting. Rectangular ducts, with their tight-turning vanes, can create audible turbulence, as can incorrectly sized spiral ducts. Acoustic duct liners may offset this problem. Fabric ducts—available in myriad colors—and fiberglass ducts are alternatives to the sheet-metal variety.

For the Toronto offices of advertising agency JWT, the project's designer **HOK** opted for the industrial-chic vibe that also allows for an efficient HVAC system. Consultant Tony Spina, of **Smith & Andersen**, says of the project: "Air is distributed into the space through a series of linear diffusers located along the perimeter of the building, and through a combination of square plaque, linear slot, and ducted round diffusers within the interior space to suit the various architectural ceiling systems." —*LC*



FRESH AIR Exposed metal ductwork courses through the Toronto offices of advertising agency JWT; HOK designed the award-winning project.

PHOTO CREDIT: TOM ARBAN PHOTOGRAPHY/COURTESY HOK

SNAPSHOTS

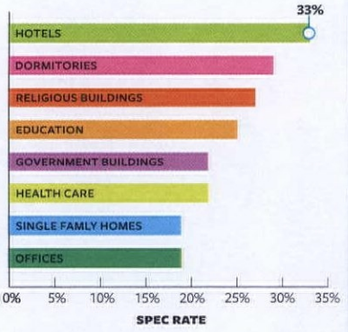
SNAP FACT

The top three **growth markets for HVAC** are hospitals/health care, light commercial, and data/telecom centers.

SOURCE: AHR EXPO SURVEY, 2013

SPLIT-SYSTEM AIR CONDITIONERS

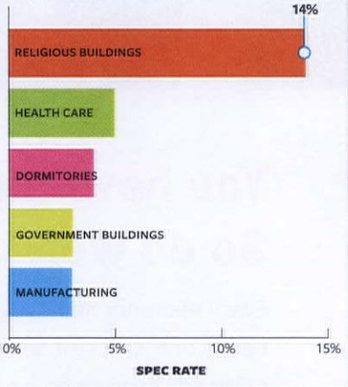
SPEC RATE BY PROJECT TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

RADIANT HEATING UNITS

SPEC RATE BY BUILDING TYPE
(MAY 2013 TO JUNE 2014)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

SNAP FACT

Of the energy used in industrial and commercial facilities, **40% to 60%** is **consumed by HVAC systems**. By comparison, lighting consumes 20%.

SOURCE: U.S. DEPARTMENT OF ENERGY

DECENTRALIZED HVAC EQUIPMENT MANUFACTURERS TO WATCH

- ACTIVE VENTILATION PRODUCTS
- BIG ASS FANS
- MITSUBISHI ELECTRIC
- TATE ACCESS FLOORS
- GE APPLIANCES

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

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OVERVIEW **PAGE 51**
The market for green residential projects continues to grow.

Q&A **PAGE 53**
Richard Piacentini expands Phipps Botanical Garden's sustainability program.

PRODUCTS **PAGE 55**
Ten sustainable residential products to transform a home.

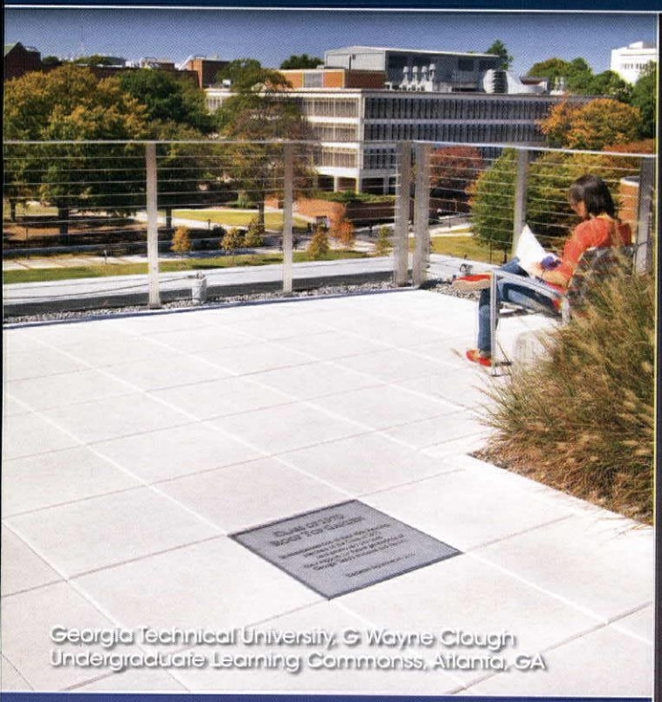
CASE STUDIES **PAGE 58**
>Zero Cottage
>Brick House

REVISIT **PAGE 64**
Via Verde sets a new energy-efficiency standard in affordable housing.

EARTHWATCH **PAGE 66**
Daniel Beltrá captures the BP oil spill in his new book of photographs.

GreenSource
THE MAGAZINE OF SUSTAINABLE DESIGN

Small Houses, Big Energy Goals



Georgia Technical University, G Wayne Clough Undergraduate Learning Commonss, Atlanta, GA

The Flats at Alley Station, Montgomery, AL

The Pinnacle at Symphony Place, Nashville, TN

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SNAP 66

"I tell you, it is easier to build a grand opera or a city center than to build a personal house."
–ALVAR AALTO

IN THIS ISSUE

Green Design's in the House

When the recession hit in 2007, projects across the country were put on hold or abandoned. Colossal cranes hanging over deserted construction sites became ubiquitous in cities from Boston to Las Vegas. While much of the industry came to a halt during the downturn, the green residential market experienced the most growth. And according to McGraw Hill Construction's most recent study, "Green Multifamily and Single-Family Homes: Growth in a Recovering Market," this trend will likely continue, with more builders, developers, and remodelers of both single and multifamily housing experiencing a substantial rise in green activity, from implementing strategies that enhance water and energy efficiency to improving indoor air quality. The greatest increase in green construction will be from those building single-family houses: of the firms surveyed for this study, 62 percent reported that more than 15 percent of their work is green to some degree, and by 2018, an impressive 84 percent expect to be involved with green building practices.

This steady climb in green construction is driven by myriad factors, such as consumer demand, environmental awareness, and changing building codes. Homeowners are recognizing the cause and effect of green design: energy and water efficiency result in money savings and improved health and comfort. For builders and developers, a mix of government incentives and regulations, advances in green product development and affordability, and energy costs have spurred decisions to adopt green building practices. Those still behind the curve will probably soon realize the advantages of green building. However, predicts Harvey M. Bernstein, VP of Industry Insights and Alliances at McGraw Hill Construction, "the broader the availability of green building products and practices, a more educated consumer and an increase in activity at the regulatory level will also encourage this group of builders to learn green practices over time."

In this issue, we feature two case studies that may be physically small but set out to satisfy ambitious energy-saving objectives. These residential projects demonstrate creative yet diverse approaches to green design. David Baker's Zero Cottage creates an airtight, highly insulated house that goes beyond the usual energy-performance standards, implementing a variety of sustainable strategies to achieve Passive House and the Living Future Institute's Net Zero Energy certifications. Architecture firm Leth & Gori went in a different direction for a project in a Denmark suburb, relying on traditional materials proven to be long lasting and thus sustainable.

With residential and commercial buildings accounting for 40 percent of the nation's total energy consumption in 2013, according to the U.S. Energy Information Administration, it is becoming increasingly important for the design and construction industry to take action to expand its knowledge of sustainable design and reduce its carbon footprint, one house at a time. GS

BY NICOLE ANDERSON

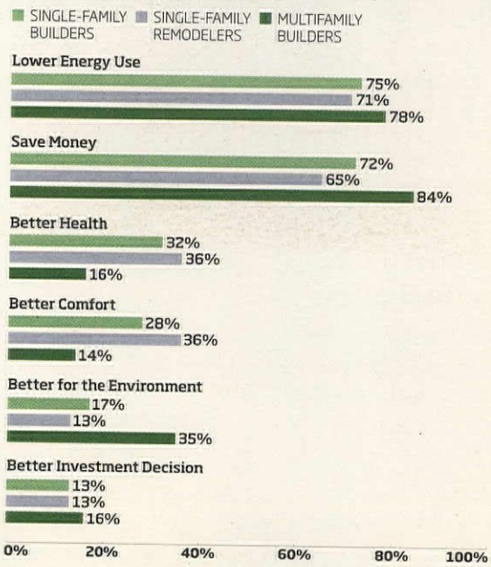
TRENDING ONLINE

1 **VENTILATED IN VANCOUVER**
The University of British Columbia's new research facility becomes a living laboratory with its unique natural-mechanical ventilation hybrid.

2 **AIR SUPPLY**
Architect Buzz Yudell's Georgina residence in Santa Monica, California, pushes the limits of passive sustainability.

3 **AU NATUREL**
Residents of the Swiss town Riehen can take a dip in Herzog & de Meuron's new natural swimming pool, inspired by traditional baths along the Rhine.

REASONS THAT CUSTOMERS REQUEST GREEN HOMES, CONDOMINIUMS/ APARTMENTS, OR REMODELS



Inside cover illustration by Kyle Bean

TOP: FROM LEFT) DON EHRARDT; DAVID O. MARLOW; LEONARDO FINOTTI; MCGRAW HILL CONSTRUCTION'S "SMARTMARKET REPORT"

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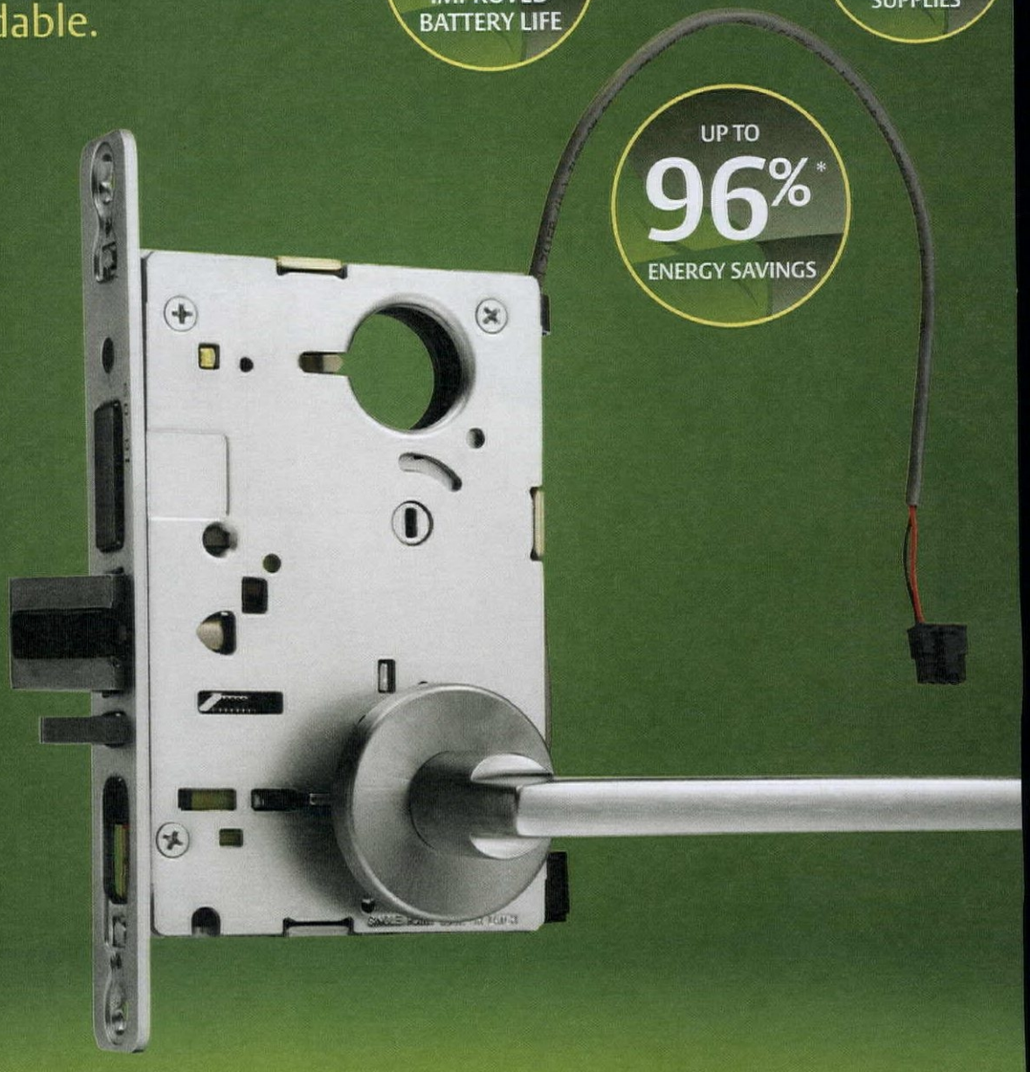

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Q&A

Sustainable to the Roots

Richard Piacentini is executive director of Phipps Conservatory and Botanical Garden in Pittsburgh. Since joining Phipps in 1994, he has guided the organization through the transition from public to private management and overseen an ambitious expansion program including several state-of-the-art green buildings.

BY JOANN GONCHAR, AIA

Richard Piacentini at Pittsburgh's Phipps Conservatory and Botanical Garden.

GREENSOURCE: Part of the mission of your organization is "to advance sustainability and promote human and environmental well-being through action and research." In some ways, this sounds like an obvious set of goals for a botanical garden. Have they always been part of Phipps's mission?

RICHARD PIACENTINI: That section was added in 2007, as a result of a strategic planning process. Before that, Phipps was primarily a horticultural showcase. For a hundred years, it had been run by the city and its main purpose was organizing flower shows. In 1993, a private nonprofit took over management. It was only then, when we got involved in building green buildings on our campus, that the board and staff got very excited about making sustainability an important part of who we are and what we do.

How did it come about that the green building program preceded the addition of sustainability to Phipps's mission? After we went private, we started to figure out how to make the organization more self-sufficient, attract new audiences, and raise revenues. We wanted to improve visitor amenities and replace some of our dilapidated buildings. One of the architects we interviewed was Bill McDonough. He told us about this new thing called LEED and how buildings are responsible for most of the energy use, most of the pollution that's produced, and most of the water that's used. We said, "Wow! We didn't realize that. We care about the environment—why shouldn't our buildings reflect our values?" So we decided to try and do a LEED building. In 2005, we completed our LEED Silver Welcome Center: the first LEED-certified visitors center in a public garden. The following year, we opened two very efficient production greenhouses and our Tropical Forest Conservatory—at the time, the most energy-efficient conservatory in the world. Eventually we reached the point where we said, "Why stop with the buildings? Let's look at everything we do." We changed over our café, getting rid of all the plastic disposables, started composting, and focused on organic and local foods. In our gift shop, we decided to highlight local, U.S.-made, and fair-trade items. We also examined our horticulture program and went completely organic with all our lawn care.

Phipps's newest building—the Center for Sustainable Landscapes [CSL]—has achieved the highest level of certification possible in both the LEED system and the Sustainable Sites Initiative [SITES]. It has also earned Living Building Challenge [LBC] Net-Zero certification and is aiming for full LBC status in addition to certification under the relatively new Well Building Standard. Do you view the CSL as an educational tool? Oh yes. Even though it is primarily an administrative building, we made a very conscious effort to open as much of its interior to the public as possible. Its green roof and the landscape around the building, which includes a stormwater-management lagoon with turtles and native fish, are part of the visitor experience. The whole idea is to invite people to explore.

What message do you hope visitors will take home with them? I hope people will recognize that we have the technology today to do these kinds of buildings and they're really important. I hope we can inspire them to start thinking this should be the norm—that we shouldn't accept anything less than super-high-performance green buildings. It's critical that we do. GS

"When we got involved in building green buildings, the board and staff got very excited about making sustainability an important part of who we are and what we do."

RICHARD PIACENTINI
Executive Director, Phipps Conservatory and Botanical Garden

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FSC®-certified Collins Pine FreeForm Particleboard was used throughout the Hillside House in Mill Valley, California by SB Architects. Photo: Mariko Reed

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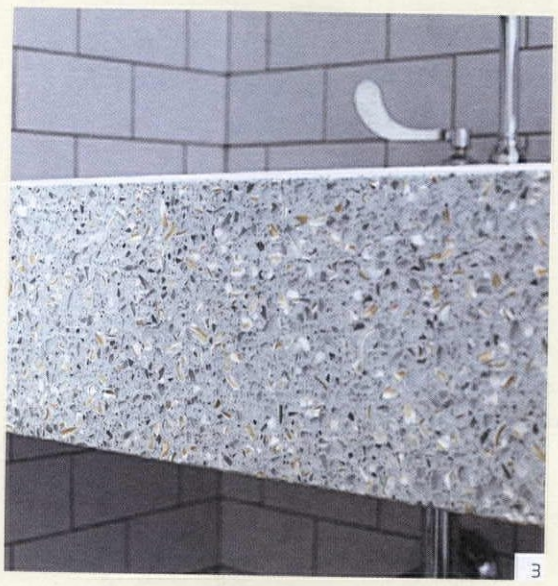

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1 Mosa Scenes

Royal Mosa
Maastricht, Netherlands
mosa.nl

The Netherlands-based ceramic tile company has just added a new collection, Mosa Scenes, to its product line. Available in eight colors in a near 6-inch square, these tiles can be used for both vertical and horizontal surfaces in a variety of settings, including bathroom, living room, and kitchen. Each has its own unique texture, bringing a richness in hue and feel to a surface. This Cradle to Cradle–certified collection is composed of predominantly raw materials, and contains 16% to 25% of preconsumer recycled material. **SNAP #45**

2 Amana 4.1 Front Load Laundry Pair

Amana
Benton Harbor, MI
amana.com

The Amana Front Load Laundry Pair washer and dryer launched in late June. The washer is designed to use 77% less water and 81% less energy, while the dryer uses 48% less energy compared to pre-2004 top-load machines. In addition to standard settings, an eco monitor allows you to see how spin-cycle options can impact energy savings. The washer holds a CEE Tier 3 rating, the highest Energy Star qualification available. **SNAP #46**

3 Pearl Grey

IceStone
Brooklyn, NY
icestoneusa.com

It is hard to beat an original. Pearl Grey is a reengineered version of IceStone's cool but rich palette, a surface available until 2009. This durable material features white, gray, and ocher recycled glass set within an ashy-light concrete medium. While the neutral concrete blends with the surrounding space, upon closer inspection its variegated grains of glass offer a refreshing detail of color. Manufactured in a rehabilitated warehouse using a water recycling system, this product is Cradle to Cradle–certified. **SNAP #47**

4 Bosch 800 Plus Dishwasher

Bosch
Irvine, CA
bosch-home.com

Bosch's latest stainless-steel 800 Plus series is not only water and energy efficient but also one of the quietest dishwashers on the market, according to the company. Each model uses fewer than three gallons of water per load. Offering a special half-load feature, the dishwasher is great for smaller batches of dirty dishes, resulting in minimal water and energy usage. The German-engineered dishwashers incorporate 18 sound-reducing technologies–certified by an independent lab–to make it run quietly. **SNAP #48**

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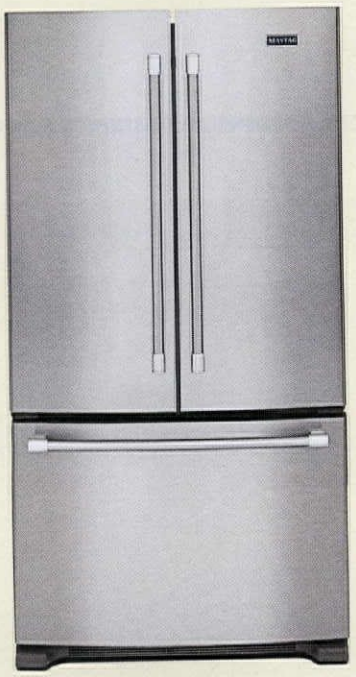

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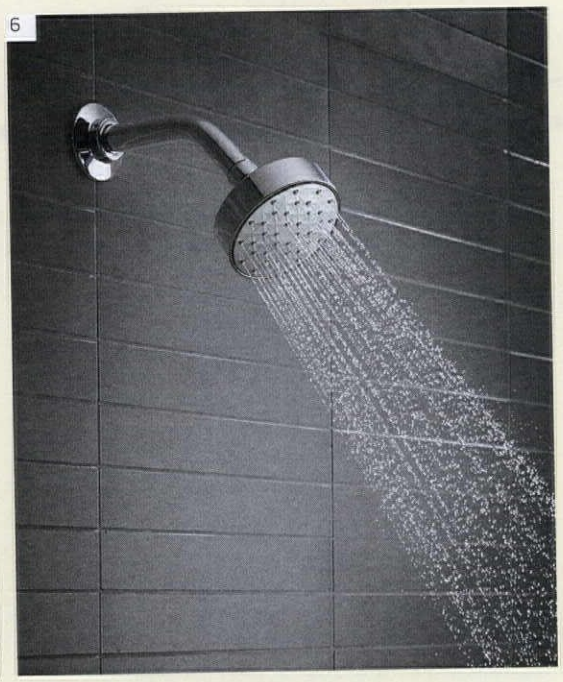

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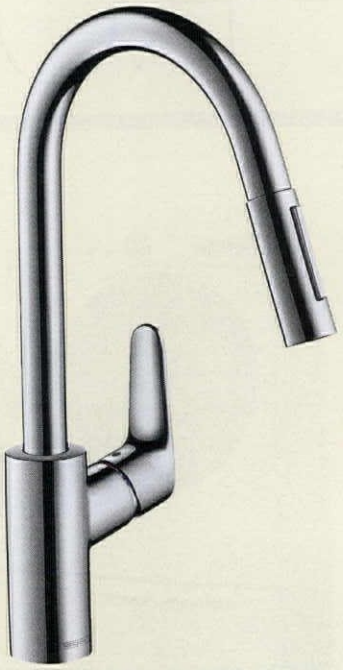

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5 Maytag French Door Refrigerator

Maytag
Benton Harbor, MI
maytag.com

Maytag's new 25 cubic-foot 3-Door French Door Refrigerator provides more space while using less energy. This Energy Star–qualified product utilizes energy-efficient BrightLight Series LED lighting and Strongbox door hinges to contain the cold air inside the fridge. (To earn Energy Star qualification, a refrigerator is required to use about 20% less energy than noncertified models.)

SNAP #49

6 Awaken

Kohler
Kohler, WI
us.kohler.com

The Awaken showerhead series from Kohler, with EPA-approved WaterSense certification, offers a range of water-saving features, such as an average 30% reduction in water use as compared with other efficient models. The wall-mounted version (shown) comes in a polished chrome or slightly darker brushed-nickel finish. Also available in these finishes, and in a similar minimalist style, are hand showers whose flow rate can be adjusted by pressing a button.

SNAP #50

7 Focus 2-Spray HighArc Kitchen Faucet

Hansgrohe USA
Alpharetta, GA
hansgrohe-usa.com

Hansgrohe's new Focus kitchen-fixture line creates greater flexibility within the sink. It includes the Focus 2-Spray HighArc Kitchen Faucet, which is available in a low-flow 1.75 GPM model. Swivel range varies from 150° to 360°, depending on the model. Whether pull-out or hand spray, the ergonomic handle and variable handle positioning can be installed for right-or left-handed users.

SNAP #51

8 EverStrand Soft Appeal

Mohawk
Calhoun, GA
mohawkflooring.com

This soft carpet is also a boon to the environment–Mohawk recycles three billion plastic bottles (more than 25% of all bottles recycled in North America) when manufacturing its own products: the bottles are turned into PET chips that are then extruded into fibers, which are finally woven into the carpet itself. Thankfully, green value doesn't translate to extra cost. EverStrand Soft Appeal comes in a wide spectrum of colors and features proprietary stain-resistance countermeasure from Mohawk and Scotchgard. **SNAP #52**

9 Stealth UHET Dual Flush

Niagara Conservation
Charleston, SC
niagaracorp.com

The toilet can be one of the largest water consumers in our everyday life, accounting for nearly 27% of indoor water use according to the EPA. Niagara's highly efficient Stealth UHET Dual Flush conserves water by offering two flush options: 0.5 gallons per flush (GPF) and 0.95 GPF. Compared to older models, which use 3.5 gallons per flush, this WaterSense-certified toilet is far from a guzzler, saving more than 15,600 gallons of water a year. **SNAP #53**

10 Eco by Cosentino

Cosentino
Sugar Land, TX
ecobycosentino.com

Cosentino polled designers and architects via social media in picking the hues of their environmentally friendly surfacing. Composed of 75% recycled glass and 25% natural stone salvaged from quarries and industrial processes, Eco surfaces are bonded with a proprietary resin that's part corn oil. It represents almost 100% "upcycling" of material that would otherwise sit in a landfill. The new selection of colors highlights earthy hues such as Creamstone, Forest Snow, Grey Moss, and Red Pine. **SNAP #54**

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CASE STUDY 01

Zero Tolerance

In his experimental home, architect David Baker tackles one of the trickiest aspects of sustainable design: energy consumption.

BY LYDIA LEE

Some people challenge themselves by competing in marathons or triathlons; for others, it's hot-dog eating contests or chili cook-offs. After completing LEED and GreenPoint Rated checklists for 20 buildings in the last 10 years, San Francisco architect David Baker knew what mountain he wanted to summit next: building a structure entirely self-sustaining in its energy use. He planned a freestanding cottage behind his home in the Mission District, confident he would be able to secure GreenPoint Rated and LEED for Homes Platinum certification. The real challenge would be in meeting the additional demands of Passive House and Net Zero Energy (certified by the International Living Future Institute). "It was a learning experience," says Baker. "I wanted to see if it was possible to do net zero in an urban setting instead of on acres of open land."

For Baker, who has promoted urban living through numerous award-winning infill projects, the cottage is a prototype for living well within a small footprint. It is part of a tiny mixed-use development he has created on Shotwell Street, which contains three dwellings in a space the size of a standard San Francisco residential lot. The main house, which he remodeled previously, features living quarters above a rental studio and a commercial space for public exhibitions at the ground level. The new cottage, where the architect and his partner have taken up primary occupancy, is separated from the other structure by a common courtyard. The loft apartment, a modest 712 square feet over a ground-floor 430-square-foot office/workshop, combines both high-tech building science and creative architectural details. Constructed for about $600 a square foot, the design was not about return on investment but about "doing everything to the extreme," as Baker puts it, to reduce the building's environmental impact.

Of the four building programs, the most challenging for Baker was Passive House, a balancing act that requires an extremely tight, super-insulated structure to minimize supplemental heating and cooling (which typically accounts for more than half a home's energy use). An air/vapor barrier, critical for the house's airtight seal, was installed on the walls, roof, and floor. Then the house was essentially encased in a giant Styrofoam cooler, with a continuous layer of extruded polystyrene over the walls and roof and a layer of expanded polystyrene beneath the concrete floor slab. To address the moisture issues that arise with supertight structures, Baker was careful to put the vapor barrier underneath a sufficient layer of insulation so that warm interior air would never get cold enough to condense within the wall cavity. Triple-pane windows help with the inevitable heat loss that occurs through glazing. "It's crazy-tight. If this house were underwater, it would float—it's basically a boat," says Baker.

Zero Cottage, a 1,140-square-foot work and living space designed by David Baker, generated surplus energy last year; the photovoltaic system clocked in at 5,500kWh, exceeding expectations by 22 percent.

TEAM

ARCHITECT David Baker Architects

Client David Baker

Engineers Double-D Engineering (structural); David Baker Architects (m/e/p)

Consultants Fletcher Studio (structural); i3 Integral Impact (energy)

General Contractor Falconfive Design and Build

SOURCES

Breathable Wall Membrane VaproShield

Windows Sorpetaler

Tile Heath Ceramics

Lighting Delray

Lighting Controls Lutron

Solar Water Heater SunEarth

Heat Recovery Ventilator Zehnder

Plumbing Toto

Stair Lapeyre

Radiant Electric Heating Calorique

Thermostat Nest

MATTHEW MILLMAN

The proof is in the blower-door test, which determines airtightness: the Zero Cottage has a 0.43 ACH50, surpassing the Passive House bar of 0.6 ACH50 with ease. For comparison, typical new residential construction has a 7 ACH50 (meaning all the air in the house would be replaced seven times within an hour).

With this impermeable structure in place, the other major component of Passive House comes into play. A heat-recovery ventilator (HRV) allows the house to recapture heat that is typically exhausted and wasted—during hot showers, cooking, even the operation of the refrigerator's cooling coil—and deliver fresh, filtered air. Even in temperate San Francisco, Baker is now a complete convert to HRVs. "I've gone from wanting to have open windows all the time to enjoying fresh filtered air within this quiet sanctuary," he says. "With the windows closed, you can't tell that you are in the middle of a city." He sees HRVs as a potential solution to urban noise and pollution. "People are attracted to the suburbs because of the supposed quiet, but with an HRV you could build near a freeway. I would never build a house anywhere without one," he adds. All appliances are electric, including radiant-heating panels (a supplement to the HRV), a combo washer-dryer unit, and an induction stove. Hot water is supplied through a combination solar hot-water system and electric tankless water heater.

After collecting a year's worth of data, Baker was able to confirm he easily outstripped his baseline goal of net-zero energy. Over the course of the year, the house sent 2,636kWh back to the grid out of the roughly 5,500kWh it produced with a 3kW photovoltaic system. Cantilevered off the roof, the PV array captures more energy than traditional flat-mounted versions—an example of design restrictions becoming a benefit. Because the small roof had to be clear for fire department access, Baker came up with a structure that features double-sided solar collectors that shade the stairs leading to the front door. San Francisco's mild temperatures are a clear advantage in meeting certification, but the Zero Cottage shows the potential in moderate climates to go well beyond net-zero.

While the dwelling is what Le Corbusier called "a machine for living," it also exudes the warmth that comes with using reclaimed materials. In this house, Baker took the opportunity to debut a rainscreen system of his own design. "You want to go with the tried-and-true for clients, but innovation in construction requires a prototyping attitude," he says. The disco-fabulous rainscreen is a mosaic of mirrored, matte, and rusty salvaged metal shingles held in place by clips and caulk tape. The wall by the front door is covered with yet a different cladding, this one made of maple flooring salvaged from one of Baker's multifamily housing projects and then charred, a Japanese technique for finishing wood called shou sugi ban. The blackened slats were then attached to cedar battens for what Baker describes as "a low-tech rainscreen."

The interiors manifest a similar spirit of creative reuse. Life in the Zero Cottage is compact, with a combined kitchen and living area in the main space and a sleeping loft above. The loft has a handsome guardrail and built-in storage made from the framing of the shed that previously occupied the site. More salvaged maple was used for the floors and minimally finished with VOC-free flaxseed oil, while the gypsum-board walls are finished in VOC-free white plaster. The loft is reached via a stair with alternating treads, created for tight industrial spaces. Another staircase provides access to the roof, where a garden of succulents flourishes in planters made of old motorcycle tires. However, to climb through the roof monitor, you have to be rather small, a fact Baker discovered when a guest couldn't fit through. "Next time I'll create better roof access," he says. "There's always something, right?" GS

Lydia Lee is a San Francisco–based architecture and design writer.

The insulated roof, protected by a drainage mat, weed barrier, and gravel, has a small seating area where succulents grow in planters made of old motorcycle tires.

For the custom rainscreen, shingles made from salvaged metal and mirrored glass are held in place with clips and caulk strips.

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CASE STUDY 02

Building for the Long Haul

Architects Uffe Leth and Karsten Gori have designed a single-family house with hefty walls and a small environmental footprint.

BY TRACY METZ

The hipped roof's deep overhang creates a veranda on all four sides of the house.

The steep sloping ceiling would allow for the addition of a loft, if the inhabitants desire one.

For Danish architecture firm Leth & Gori, longevity was paramount in the conception of the Brick House. Designed to stand the test of time, the one-story, three-bedroom residence is made to last for roughly 150 years. Ultimately, says partner Karsten Gori, a long life span and an efficient use of materials make a more significant contribution to a building's sustainability than the typical focus on operating energy does. "We wanted to show that it is possible to build a contemporary house with a long life," he says.

The Brick House is one of six Mini-CO_2 Houses, a project initiated by the philanthropic foundation Realdania to create affordable dwellings for the middle class on the town of Nyborg's suburban fringe. Each house was designed by a different architect and all employed a different sustainability strategy. Together they are intended as a series of prototypes for low-carbon living. Leth & Gori's approach was to design a long-lasting house that requires minimal maintenance and uses traditional materials.

The distinguishing feature of the 1,400-square-foot house, which costs about $400,000 to build (a budget the architects say is on par with other housing in the region) is its 22-inch-thick walls of clay blocks and brick. The assembly, which has no insulation or an air or vapor barrier, is intended as an alternative to the common response to energy-conscious building codes, says Gori. Walls are usually made of "layers and layers of different materials and insulation that do not last more than 50 years and are so airtight that they cause health problems," he points out. "It is like wrapping a house in a plastic bag."

The architects performed a detailed life-cycle assessment to demonstrate that the Brick House's focus on durable materials and low-tech construction methods would lower its total carbon footprint. Nevertheless, the house is energy-efficient. Its hefty walls provide thermal mass: they store thermal energy and help flatten out interior temperature fluctuations. Moreover, the use of only two materials simplifies the building process and keeps maintenance down.

The building envelope was developed in collaboration with Nini Leimand, a Danish architect with expertise in what Gori calls "homogeneous massive wall construction," along with the contractor and masons. The system includes an inner block wythe and an outer brick wythe, connected by a number of cross-laid interlocking bricks. On the exterior, the bricks have been placed so that some headers protrude and the marks from the production process are visible, providing the facade with texture.

Despite the patterning created by the brick's bond, the house exterior is basic, almost severe, with a hipped tile roof that echoes those of the surrounding houses. Generous overhangs supported by a weathering steel column at each corner protect the walls from the elements and form a narrow veranda on all four sides.

The interior is more expressive, with a tall, sloping ceiling and a rough-and-tumble aesthetic featuring simple finishes reminiscent of artists' studio spaces in industrial buildings: unfinished plywood, unpainted medium-density fiberboard, and the exposed clay blocks. The pinewood floor, equipped with radiant heating, has a traditional Danish soap finish. Daylight flows in from all sides through glass doors that allow access to the surrounding veranda.

This project, Leth & Gori's first finished building since starting their studio seven years ago (three more are nearing completion this year), provides a new take on minimal, simple, and long-lasting materials in a contemporary context. In that sense, it is a prototype—one where workmanship is critical, says Gori. "This is an old-school kind of building that requires craftsmanship on site," he says. "You feel that the Brick House has been touched by human hands." GS

Tracy Metz is a Netherlands-based journalist who writes about architecture, landscape, and urban issues. She is the author of several books, including *Sweet & Salt: Water and the Dutch.*

STAMERS KONTOR

The pine flooring has a traditional Danish soap finish.

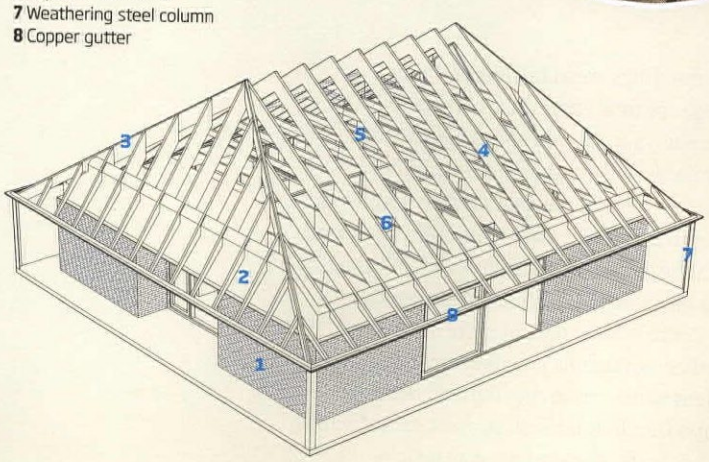
TEAM

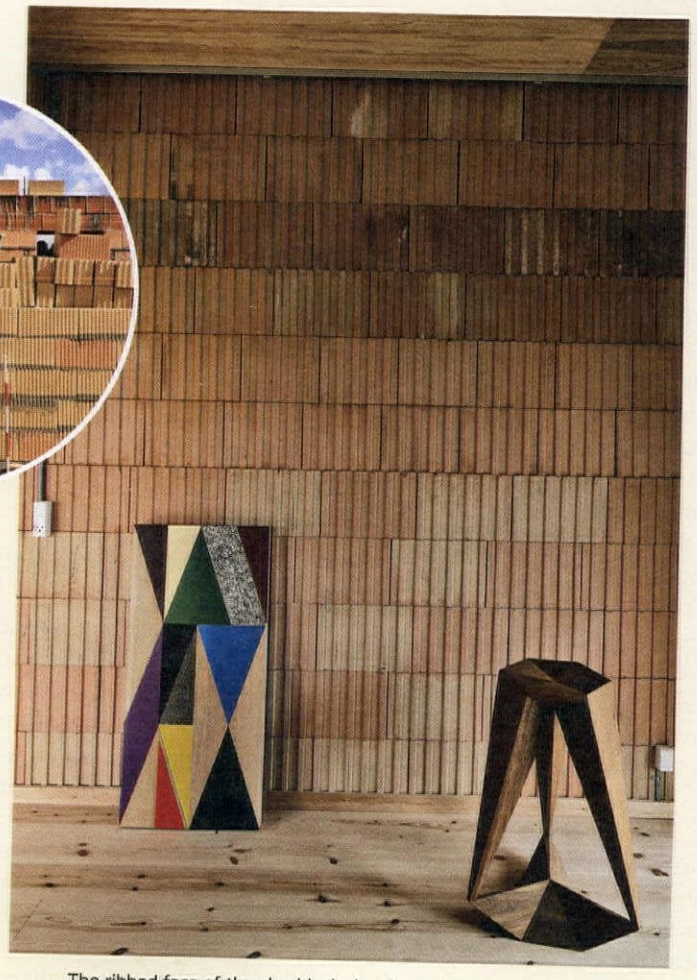
ARCHITECT Leth & Gori
Client Realdania Byg
Engineer Buro Happold
Consultants Nini Leimand (masonry); Danish Technological Institute (materials and details)
General Contractor Ebbe Bernth
Mason Murermester Ask Askhom
Carpenter Ole Larsen & Sonner v. Anders Larsen

SOURCES

Clay Blocks JUWÖ
Brick Randers Tegl
Windows and Doors STM Vinduer
Roof Tile Monier
Wood Flooring Moelven
Lighting Artemide, Bega

AXONOMETRIC DIAGRAM
1 Homogeneous masonry wall
2 Clay blocks
3 Hip rafter
4 Standard rafter
5 Collar tie
6 Exposed steel cord
7 Weathering steel column
8 Copper gutter





The ribbed face of the clay blocks has been left exposed on the interior.

REVISIT

Going the Green Way

In the Bronx, a LEED Gold–certified development becomes a model for affordable housing.

BY NICOLE ANDERSON

The street-facing elevation features warm-toned wood and aluminum rainscreen panels.

Residents share garden plots on the building's terraced rooftops.

Sitting on a former railyard and brownfield site, the affordable housing development Via Verde stands out from the unremarkable high-rises nearby in the once arson-ravaged Melrose section of the South Bronx. The 222-unit apartment complex for low- and middle-income residents has not only set a precedent for the design of subsidized housing but also implemented an ambitious sustainability program to save energy and enhance the quality of life for its occupants.

This $70 million project was borne of the city's first-ever juried competition for affordable and sustainable housing, conceived by the local New York chapter of the American Institute for Architects (AIA) and the City of New York Department of Housing Preservation and Development (HPD). The competition called on design teams to submit proposals that met specific criteria beyond just affordability, including LEED certification and the promotion of healthy living by providing amenities such as recreation areas, exercise facilities, and access to fresh food. The jury selected London-based Grimshaw Architects and New York's Dattner Architects, along with development partners Phipps Houses and Jonathan Rose Companies.

Since it opened in 2012, Via Verde, composed of rental and co-op units, has earned LEED Gold certification thanks to a number of green design strategies, from solar shading devices to a highly thermally efficient prefabricated rainscreen facade. The complex—which steps down from a 20-story tower to three- and four-story townhouses—is topped by green roofs that descend in a series of terraces and eventually end in an outdoor courtyard. The rooftop gardens serve multiple purposes: they provide fresh produce and open space for residents and reduce water consumption by capturing stormwater for irrigation. The plantings also help combat the heat-island effect. With the help of GrowNYC, an environmental organization that builds and supports community gardens, residents share and cultivate the garden plots.

The complex has a 66kW rooftop solar system, which provides the electricity for hallways, elevators, and public spaces. From July 2013 to June 2014, the photovoltaic panels produced 102,634kWh. So far Via Verde is outperforming similar multifamily buildings. Bright Power, a solar and energy-efficiency consulting firm, is tracking the building's energy and water consumption through its EnergyScoreCards tool.

Bright Power compared Via Verde to other multifamily complexes with similar metering, including central, owner-paid heat and hot water, tenant-paid cooling, and direct-metered apartment electricity. It consumed 40,000 Btu per square foot from July 2013 to June 2014—earning an A for energy consumption in the Bright Power system. According to Jonathan Braman, vice president of Portfolio Solutions Group at Bright Power, this means that the complex performs in the top 25 percent of similar buildings in the EnergyScoreCards database. (Roughly 15,000 multifamily buildings are in the Bright Power database.) It is challenging to gauge total energy use in these types of buildings, however, since there is no access to tenants' electric bills.

Via Verde has set new standards for sustainability and affordable housing, and other city-subsidized developments will likely follow its lead. Since 2011, HPD has required that new affordable housing funded by the city must comply with the standards of the Enterprise Green Communities Certification, a program that outlines green building practices for developers of affordable housing. But more important, Via Verde has demonstrated that sustainable practices can minimize the impact on the environment while improving the well-being of residents. According to Nikolas Dando-Haenisch, an associate principal at Grimshaw, "The building has really changed the way people understand living in the city." GS

TEAM

ARCHITECT Grimshaw Architects and Dattner Architects (Architect of Record)

Landscape Lee Weintraub Landscape Architects

Engineers Robert Silman Associates (structural), Ettinger Engineering Associates (m/e/p), Pillori Associates (geotechnical), Langan Engineering (civil)

Solar Consultant Bright Power

KEY PARAMETERS

LOCATION Bronx, New York

SOURCES

Metal Panels Accent Ceilings and Walls

Masonry Yankee Hill Brick & Tile and Blenko Glass Company

Metal/Glass Curtain Wall Kawneer

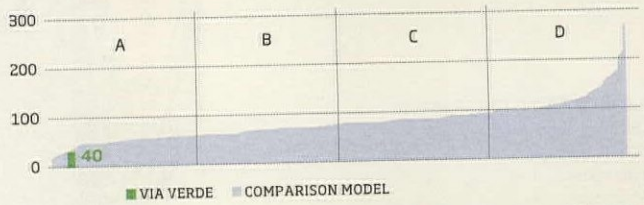
Windows EFCO

Glazing PPG

Photovoltaic System SunPower

VIA VERDE COMPARED TO NYC MULTIFAMILY PROPERTIES

OWNER ENERGY INDEX (KBTU/SQFT/PER YEAR)



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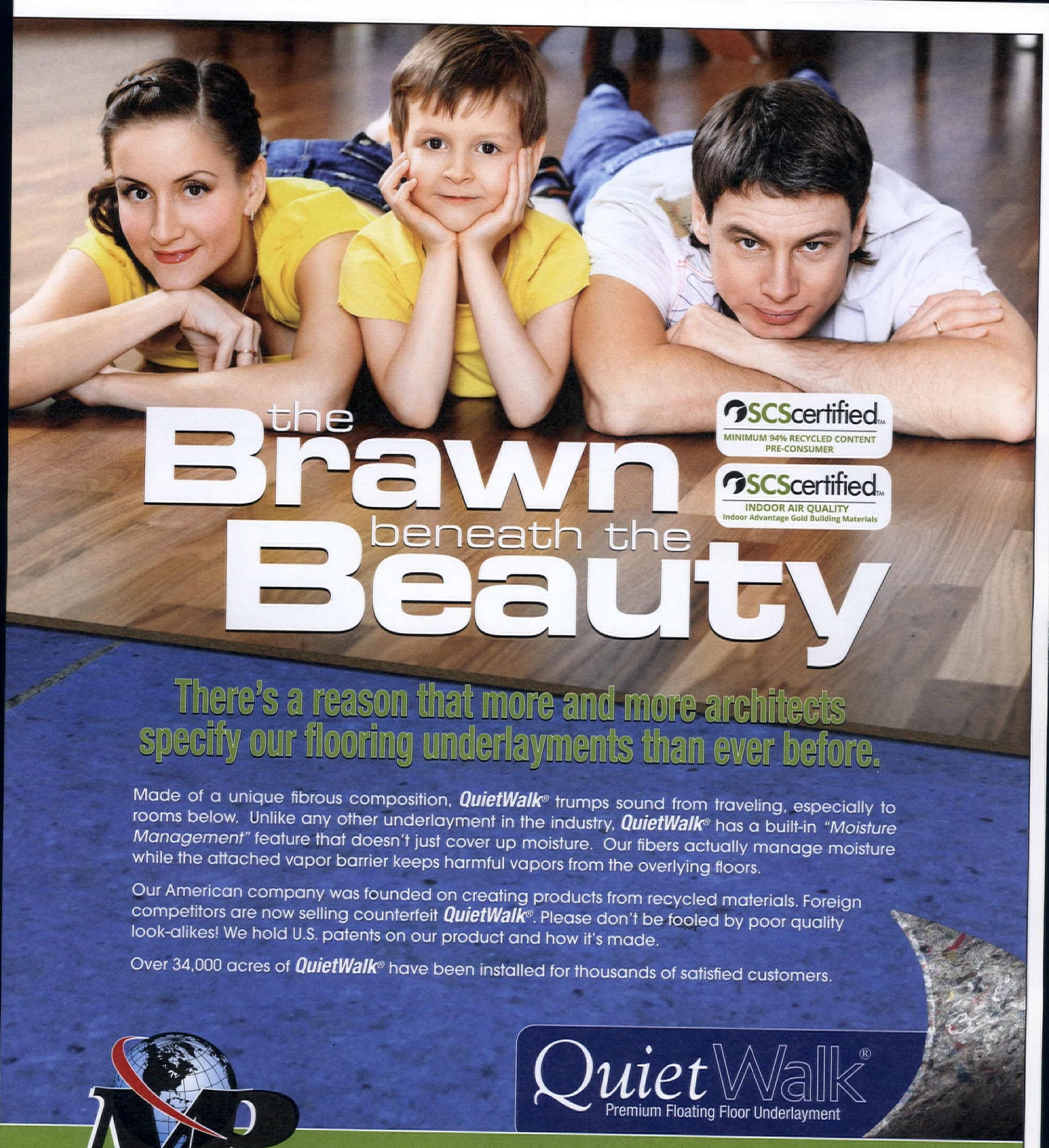

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SNAP 69

Spill series photographed by DANIEL BELTRÁ

EARTHWATCH

Days after the Deepwater Horizon oil rig erupted in April 2010, Spanish-born environmental photographer Daniel Beltrá, on assignment from Greenpeace, flew to Louisiana, chartered a Cessna, and strapped on his camera. Two thousand feet above the Gulf of Mexico, Beltrá witnessed one of the worst environmental catastrophes in history—the sunken BP rig gushing hundreds of millions of gallons into the ocean.

Beltrá's initial assignment turned into his own monthlong project. In the dozen subsequent flights he took over the Gulf, Beltrá captured some of the most memorable images of the disaster: marble-like slicks of brown, orange, and red (some fluorescent due to chemical dispersants, he suspects); black smoke rising off controlled burning areas; boats with iridescent wakes. The images, in their abstractness, exude a terrifying beauty. "I love images when it's not very clear what is happening; it creates an interaction with a viewer," he says.

An image of oil-drenched pelicans won Beltrá the prestigious Veolia Environnement Wildlife Photographer of the Year award in 2011. Now, after the photographs have toured the globe in several exhibitions, Beltrá is releasing them in a book titled *Spill*. Wary of the abstract images being categorized as fine art, Beltrá doesn't want his work to exist in a vacuum. "I'd rather have the work seen by a lot of people, hoping to inspire a dialogue," he says.

Though the spill occurred four years ago, the effects are still being felt. In June, BP began paying medical claims to those sickened by the spill. In July, researchers found lesions on the bodies of fish.

Currently Beltrá is documenting shrinking ice caps in the Arctic Circle, observing the toll of global warming firsthand. He hopes his images will be a wake-up call, adding, "What we do makes a difference." GS

BY ANNA FIXSEN

CRITICAL POINT

GULF OF MEXICO
Beltrá spent approximately one month in 2010 photographing the Deepwater Horizon oil spill.

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Going With the Flow

From coast to coast, design professionals deploy innovative strategies to manage water and enhance sustainability.

BY MICHAEL COCKRAM

NORMAL CONDITIONS

FLOOD CONDITIONS

IN LANDSCAPE ARCHITECT Thomas Balsley's view, it's time to rethink common notions about the role of parks and open space. "Often considered a luxury, parks should be viewed as providing an essential service: as infrastructure that makes communities more resilient," he says. Balsley is among a group of designers whose work demonstrates how public space can do more than simply serve as an amenity for recreation. It can play a critical role in managing stormwater and in mitigating the impact of coastal storm surges and inland flooding. The strategies that the following architects, landscape architects, and engineers are exploring have applications in a variety of climates and at many scales.

Greening the East River

In New York, two new community parks along the East River serve as case studies in water management and in making coastal areas resilient.

Looking at the Hunter's Point South Waterfront Park in Queens on a sunny day, with children playing on its elliptical sports field and people lounging on its benches or seeking shade under the delicate arcing pavilion that flares toward the Manhattan skyline, one might never suspect it was built with a torrential downpour in mind. But the 11-acre park, designed by Balsley's firm and architects Weiss/Manfredi, incorporates several strategies aimed at helping manage the runoff created during such storms. It includes elements such as permeable paving and bioswales (planted channels that slow, filter, and infiltrate stormwater flows).

The primary goal of this so-called green infrastructure is to keep runoff out of the city's sewer system, explains Gillian Blake, a principal at the engineering firm Arup, the project's prime consultant and its infrastructure designer. This function is critical, because New York has a combined sewer system—one that carries both stormwater and sewage together in the same pipe. Under dry conditions, the contents of the combined sewer are carried to a treatment facility. But heavy rainfall can easily overload the system, and in those instances, the runoff-sewage mix is dumped directly into the city's waterways untreated.

The park also has features that help it weather the effects of the East River's overflowing its banks during a storm surge like the one caused by the 2012 superstorm, Hurricane Sandy. But instead of creating artificial barriers to prevent such incursions, the team decided to let areas like the playing field flood. Since the salt water of the East River (which is actually a tidal strait) can damage vegetation and be corrosive to buildings and infrastructure, it was important to grade the park's terrain so the storm surge would flow easily back to the river rather than to the overburdened sewers. Other areas that would collect water, such as the bioswales, were designed to help it percolate into the ground quickly. They were also planted with hardy native vegetation that can withstand occasional doses of salt water, explains Balsley.

This "catch and release" approach is more akin to the way nature buffers coastal areas and helps protect upland communities, says Marion Weiss, Weiss/Manfredi principal. "We try to bring natural systems and infrastructure closer together," she says.

HUNTER'S POINT SOUTH
An 11-acre park at the water's edge in Queens, New York, includes an elliptical playing field (opposite) and pedestrian gardens that have planting beds interspersed with low gabion walls (top). The playing field floods when the river overflows its banks (above).

IMAGES: © ALBERT VECERKA/ESTO (TOP AND OPPOSITE); COURTESY THOMAS BALSLEY ASSOCIATES AND WEISS/MANFREDI (2)

ONLY
ONLY

BUSHWICK INLET PARK The three-acre park (middle) on the East River waterfront in Brooklyn is designed so no stormwater is sent to the city's sewer system. It was conceived as a blanket of turf that folds up to cover the roof of a wedge-shaped community building (right).

The park at Hunter's Point South, which officially opened in August 2013, was approaching completion when Sandy's surge washed over it and put the design to the test. After the waters receded, there was no significant damage to the park's structures or landscape.

Tough Turf

Just to the south of Queens, Bushwick Inlet Park, designed by Kiss+Cathcart Architects and Starr Whitehouse Landscape Architects, is part of an ongoing transformation of a formerly gritty section of the Brooklyn waterfront. Conceived as a blanket of greenery that folds up to cover the roof of a wedge-shaped community building, the three-acre site includes parkland at the water's edge and a playing field.

Sitting on top of a capped brownfield that was most recently a parking lot, the site's longitudinal section works on a number of levels to manage stormwater and ensure that no runoff is directed to the city's combined sewer system. The building meets the street with a glass and concrete facade, its roof sloping down to converge with the site at the playing field and finally descending to the river. The planted roof absorbs some of the flow of stormwater, and an area of gravel fill under the playing field detains it while it infiltrates the ground. Any surface runoff that reaches the river is first filtered through a swath of native plants at the river's edge.

"Extensive" green roofs—those designed with just a few inches of growing medium and not intended for foot traffic—typically don't demand much maintenance or irrigation. However, Bushwick's "intensive" green roof, which also acts as a grandstand, has a foot of topsoil and requires some irrigation. To that end, a portion of the site's stormwater is captured and used as a resource: along with graywater from a playground fountain, it is stored in a 15,000-gallon tank that supplies the roof's underground drip irrigation system.

And like Hunter's Point South, the nearly complete project was inundated with salt water when Sandy struck. Water came about 80 feet onto the site, then receded with no real damage to the landscape, according to Stephen Whitehouse, Starr Whitehouse principal. Since the building was located away from the water on the street edge, it was well out of harm's way.

STORMWATER DIAGRAM

IMAGES: © PAUL WARCHOL (TOP); COURTESY KISS+CATHCART ARCHITECTS/NEW YORK CITY, NYC ARKS (2)

Ponds with a Purpose

Bioswales, vegetated detention ponds, and other devices that mimic natural processes are not the only ways to slow the flow of water into the landscape. The Dutch, who have a long history of managing water systems, are exploring a different approach, especially for intensively used urban spaces that call for hardscape ground surfaces. The Benthemplein Water Plaza, a pilot project in Rotterdam, is one such environment. It is designed to capture stormwater by allowing recessed paved areas for socializing and recreation to flood during heavy rainfall. Since portions of the city have a combined sewer system, just like New York's, one goal of the project is to mitigate the impact of runoff on existing stormwater infrastructure. But the plaza is also designed to celebrate water, says architect Florian Boer, founder of the local firm De Urbanisten. Stainless-steel troughs wind through the plaza and during downpours send water cascading into stepped concrete basins. Because local health regulations stipulate that standing water be drained within 36 hours, the system is designed to send water to smaller basins that gradually filter runoff, through infiltration, into the water table. A larger basin, which collects runoff from the surrounding area, employs pumps to direct water to nearby canals once these waterways have receded sufficiently.

BENTHEMPLEIN WATER PLAZA These stepped plazas in Rotterdam (above and right) have been intentionally designed to flood when it rains heavily. During dry weather, they provide space for recreational activities such as basketball and skateboarding.

IMAGES: © OSSIP VAN DUIVENBODE (RIGHT); COURTESY DE URBANISTEN (LEFT)

Water in the West

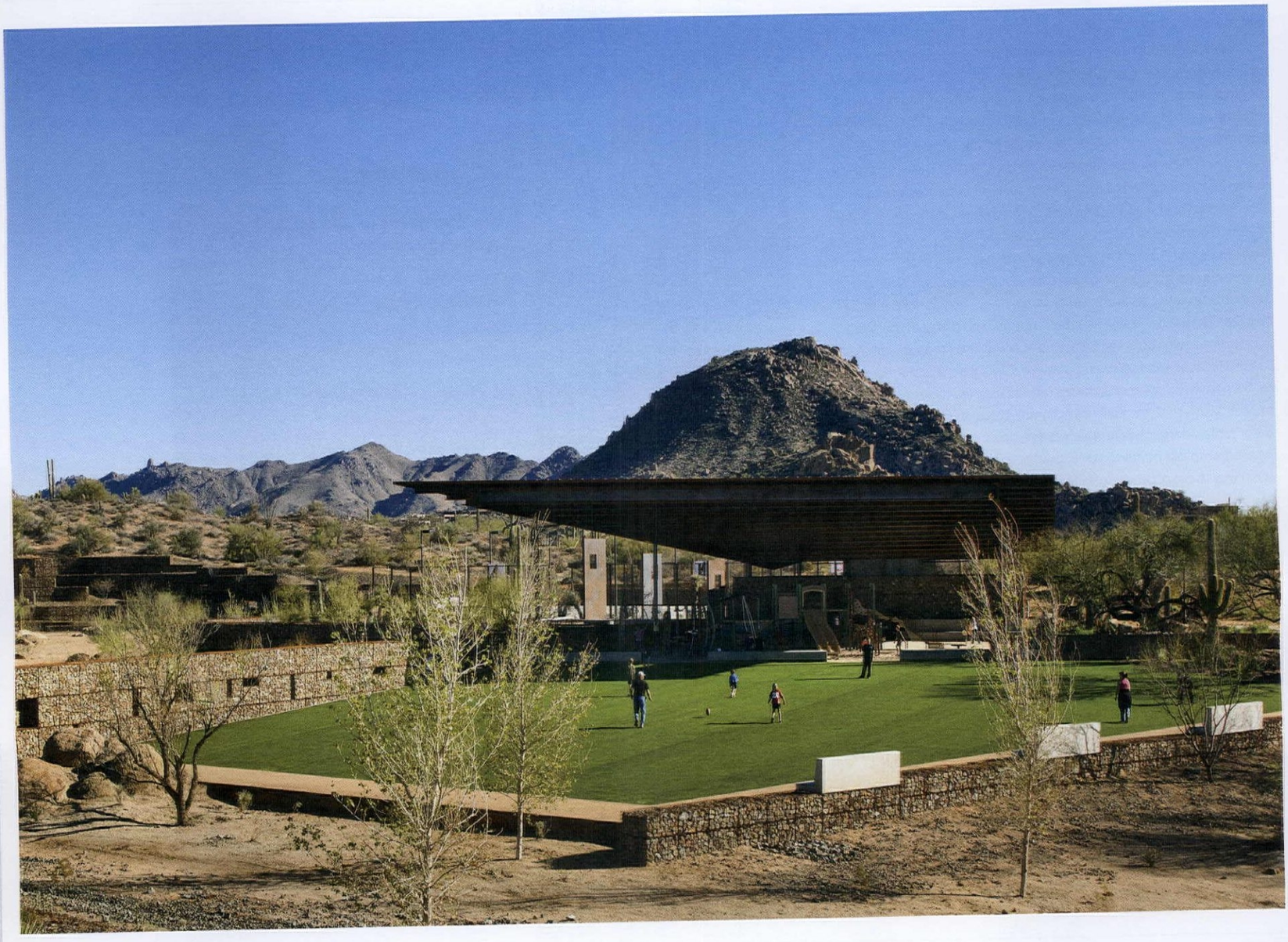
Although Arizona's arid Maricopa County gets a mere seven inches of precipitation a year, when the rain does come, it often falls in torrents. In conceiving the George "Doc" Cavalliere Park in Scottsdale, planners envisioned a precedent-setting facility that would help manage this stormwater while relying primarily on green infrastructure elements. Due to these strategies, when the park was completed in 2012, it earned three out of a possible four stars from the Sustainable Sites Initiative (SITES), a LEED-like rating system for landscapes. At the time, it was the highest SITES rating any project had earned.

The park's location was a challenging one because it sits at the confluence of two seasonal stormwater "washes." This condition required that designers from the landscape architecture firm Floor Associates integrate detention for a volume of water equal to nearly 50 acre feet into the design (one acre foot is equivalent to an area 66 feet by 660 feet by one foot deep).

They satisfied this requirement by locating playing fields and a pavilion in a natural depression and allowing the area to flood during extreme downpours. This part of the site acts as a detention basin that temporarily holds the water, then releases it to a lower basin and, ultimately, into the area's drainage system. Because local health regulations, similar to those in place in other jurisdictions (see sidebar above), limit how long standing water can be contained, the site and its soils are engineered so that water drains within 36 hours.

The slopes above the basin are laced with staggered gabion walls that slow stormwater sheet flow and form small catchment areas, fostering desert vegetation. A primary advantage of using these native plantings is that, once established, they don't require irrigation and need little maintenance. "Maintenance is an aspect of sustainability that is often overlooked," says Chris Brown, a Floor Associates partner. Similarly, the project's palette of architectural materials—weathering steel, local stone, and concrete—requires little upkeep.

The project also includes a permeable paving material made from site-salvaged decomposed granite, a granular ground cover that's a common feature of the desert surface. The decomposed granite is stabilized with a liquid copolymer and then compacted but remains permeable to stormwater runoff. It also helps combat the heat island effect. A stabilized-granite parking lot, for example, can feel 20 degrees cooler than an asphalt-paved lot, says Brown.



GEORGE "DOC" CAVALLIERE PARK
A playing field in this Scottsdale, Arizona, park is positioned so that it floods during heavy rainstorms and acts as a temporary detention basin.

Water and Power

With its so-called Mediterranean climate—distinguished by warm, wet winters and hot, dry summers—the Los Angeles basin gets twice as much rainfall as central Arizona. But because of the enormous population and lack of nearby reservoirs, water management in the Los Angeles region is just as critical.

Since 2008 the utility Burbank Water and Power has been involved in transforming its Magnolia Power Plant into an "ecocampus" highlighting water management. "The idea was to turn an industrial complex into a garden," says Evan Mather, a principal at AHBE: Landscape Architects. The firm's vision included interpreting and restoring a woodland and riparian environment in an industrial context, he notes.

The most recent addition to the campus is the Centennial Courtyard, a decommissioned substation that AHBE transformed into an outdoor dining area sheltered by a vine-covered trellis. The project received SITES accreditation in 2012.

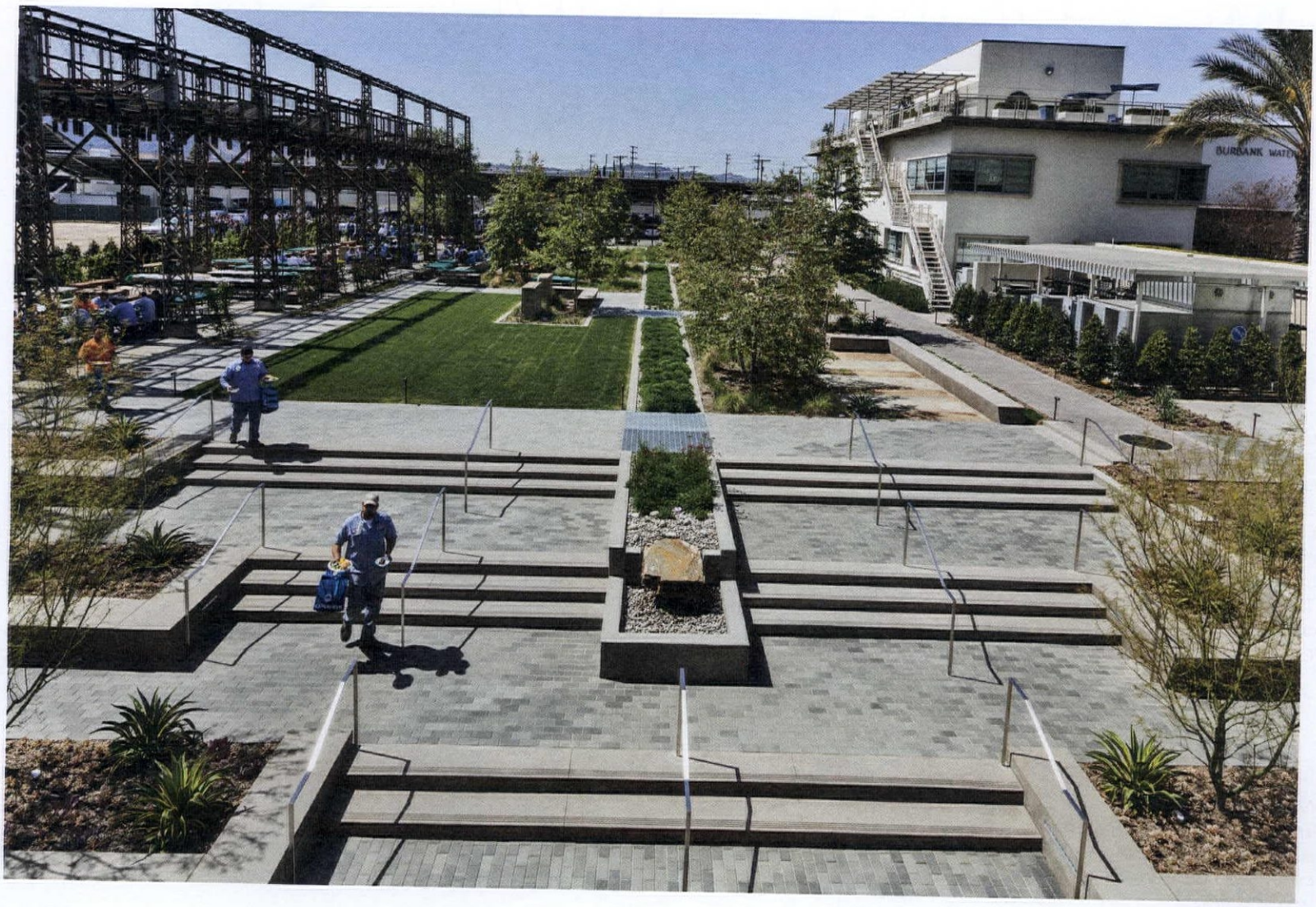
The centerpiece of the eco-campus stormwater management system is an old utility tunnel that designers converted into a filtration trench. The surface water and that of an adjacent building's green roof is fed into this trench, which is filled with gravel salvaged from the site and topped with plants that harmlessly absorb toxins from the runoff through a process called phytoextraction.

In addition, the designers incorporated tree biofilter boxes. These devices embed a tree's roots in a stormwater catchment basin to help filter pollutants that can accumulate in stormwater from cars, refuse, and other sources. The design team also used pavers supported with a modular rigid frame. The system provides a permeable surface while preventing soil compaction, so that tree roots can spread.

Plantings are mostly native and do not require irrigation. But those that do need irrigation rely on wastewater treated and reclaimed from the power plant's operations, including its generators and its cooling towers. That saves up to 100,000 gallons of potable water a day.

The Burbank Water and Power project and the new parks in Scottsdale and New York demonstrate that green infrastructure can play critical water-management roles in diverse settings and climates. These projects showcase strategies that could help communities become more sustainable and resilient in the face of disaster. ■

Michael Cockram is a freelance writer and director of Bowerbird Design in Fayetteville, Arkansas.



BURBANK WATER AND POWER
This California utility's ecocampus includes a former substation that his been turned into a trellis-covered terrace (below). Stormwater management features include an old utility trench now filled with gravel and toxin-absorbing plants (left).

PHOTO CREDIT: © RED PHOTO

CONTINUING EDUCATION

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Learning Objectives

1 Describe the elements in a combined sewer system and explain why such systems are prone to overflows.
2 Identify landscape features that are considered green infrastructure.
3 Explain how green infrastructure can help prevent combined sewer overflows and coastal and inland flooding.
4 Explain how green infrastructure strategies can be adapted for different climates and regions.

AIA/CES COURSE #K1406A

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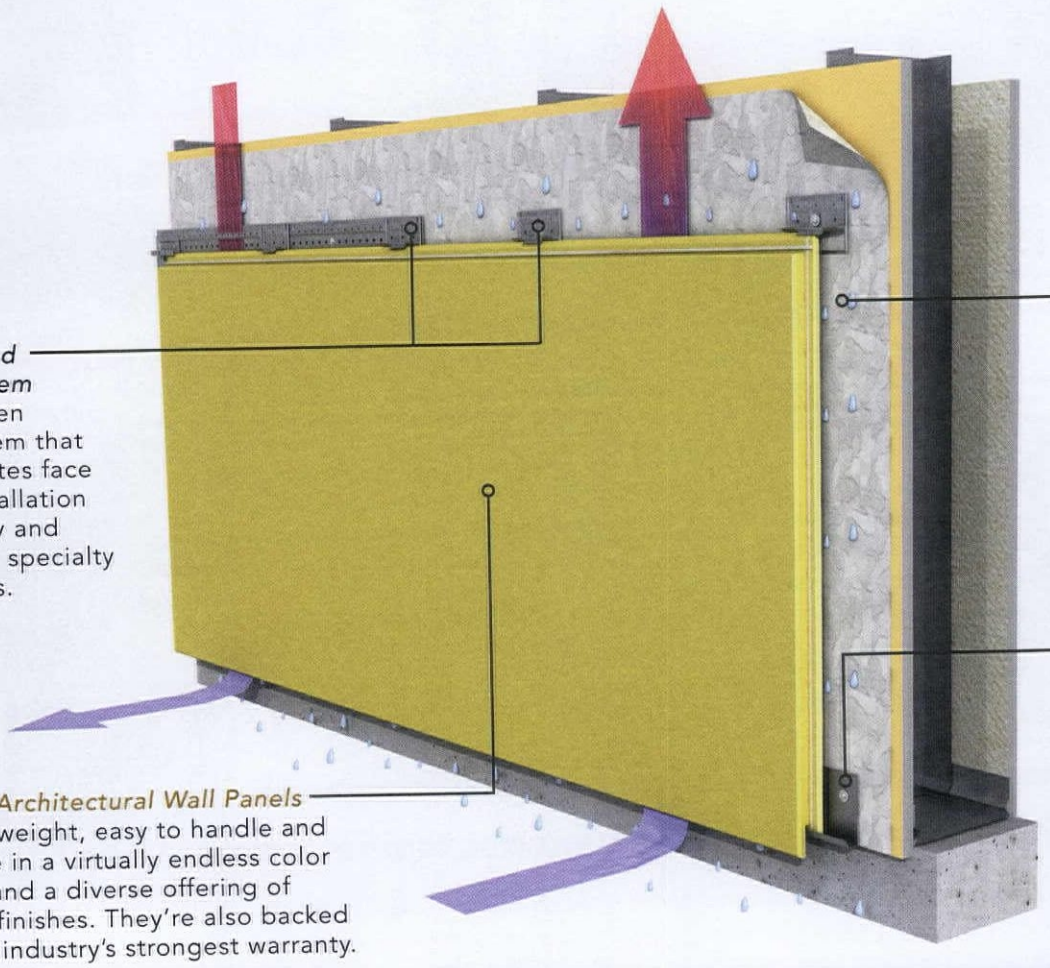
(now discover the inside story)



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TOP U.S. REGIONS SPECIFYING EXTERIOR SUN CONTROL DEVICES

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WEST SOUTH CENTRAL	135
PACIFIC SOUTHWEST	103
MIDDLE ATLANTIC	62
WEST NORTH CENTRAL	58

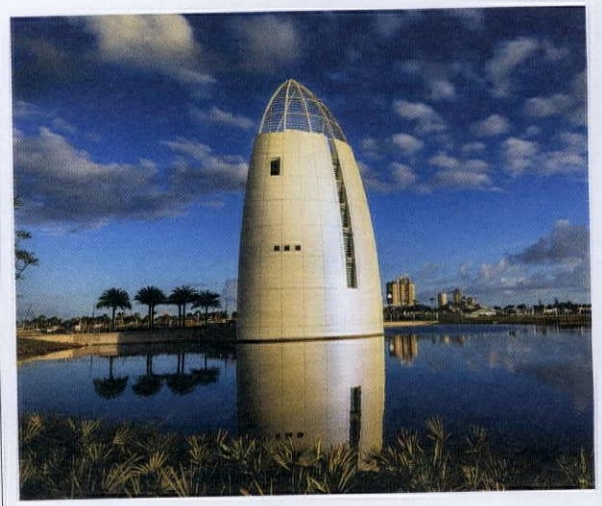
SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

WOOD WORKS Branson Commons in Ross, California, was designed by Turnbull Griffin Haesloop Architects.

1 WOOD PRODUCTS AND GREEN BUILDING

Wood products can help projects earn credits in various green building rating sources and are even thought to positively affect stress management and performance in individuals. This course examines 12 of the most prominent green building programs in North America and how wood components factor in each of them. (Sponsored by reThink Wood)

—CREDIT 1.00 HSW; 1 GBCI CE HOUR



FINISHING SCHOOL The Exploration Tower at Cape Canaveral, by GWWO Architects, utilizes Valspar's Kameleon Color paint.

2 TALKING COLOR

Color has a profound effect on the human experience and on users of the built environment. It can inspire, soothe, stimulate, and/or relieve eyestrain and fatigue. American architects, who've mostly used color as an accent, are now recognizing this. The course explores the importance of color, as well as solar reflective pigments and their contribution to sustainable building. (Sponsored by Valspar)

—CREDIT 1.00 HSW

MADE IN THE SHADE Exterior shading systems offer enhanced user comfort and reduced energy costs.

3 MANAGING HEAT AND LIGHT THROUGH EXTERIOR SHADING SYSTEMS

While daylighting is often desired for its reliance on natural light, which can significantly reduce energy usage, unmitigated sunlight can result in solar heat gain and glare. Exterior shading systems help reflect and absorb solar energy outside the building. (Sponsored by Draper)

—CREDIT 1.00 HSW; 1 GBCI CE HOUR

KEEP WALKIN' In appropriate design locations, slip-resistant metal can enhance the safety of walkways and stair treads.

4 METAL SAFETY FLOORING

Safe flooring in workplaces, especially industrial or high-traffic settings, can directly influence the operation and profitability of the business. This course looks at the characteristics of the different, common choices for safety flooring, as well as how walkways and stair treads in particular can be enhanced through the use of slip-resistant metal. (Sponsored by SlipNOT) **—CREDIT 1.00 HSW**

UPSTAIRS, DOWNSTAIRS The stair profiles of the New School University Center, designed by SOM, are expressed on the exterior.

5 CIRCULATION NOTICE

Vertical circulation is no longer just about connecting floors—it's also about connecting people. Notable New York buildings such as the New York Times, Albert Einstein College of Medicine, and John Jay College of Criminal Justice are demonstrating how their stair designs are fostering spontaneous interaction and community. (Sponsored by the Ornamental Metal Institute of New York) **—CREDIT 1.00 HSW**

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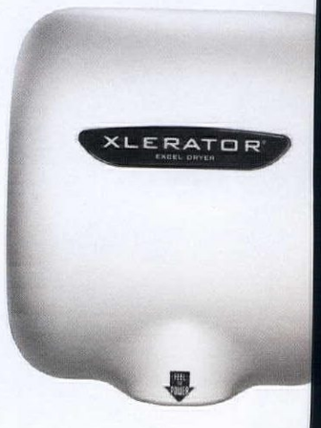

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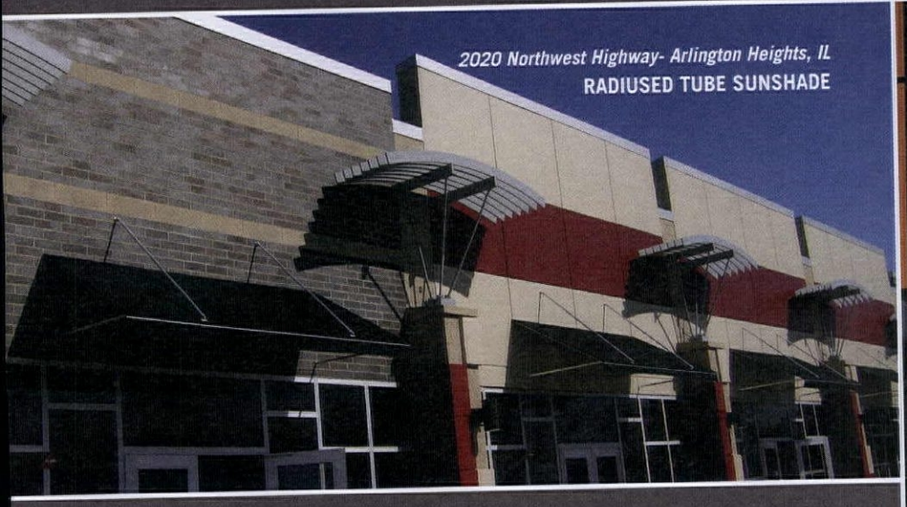
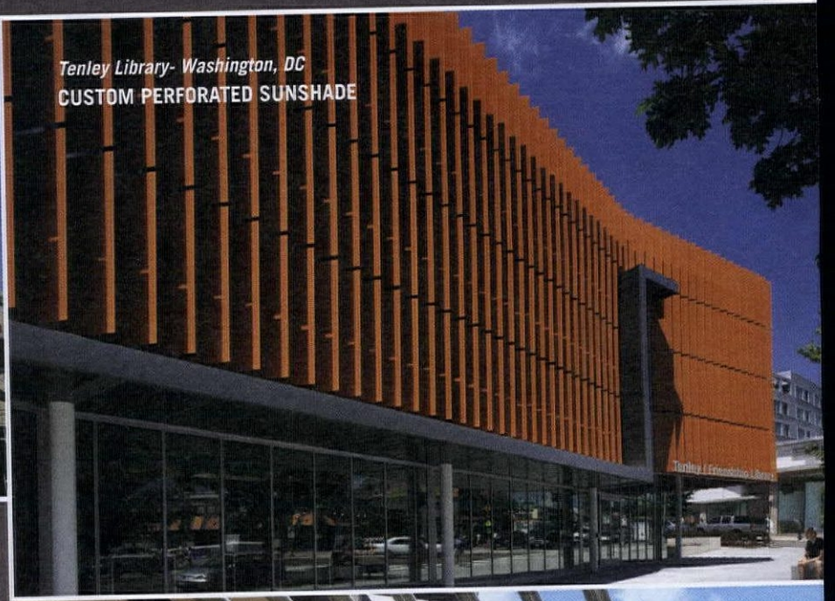


2020 Northwest Highway- Arlington Heights, IL
RADIUSED TUBE SUNSHADE



Tenley Library- Washington, DC
CUSTOM PERFORMATED SUNSHADE

Mercedes Benz- Pleasanton, CA
RADIUSED SUNSHADE PROJECTING 190"

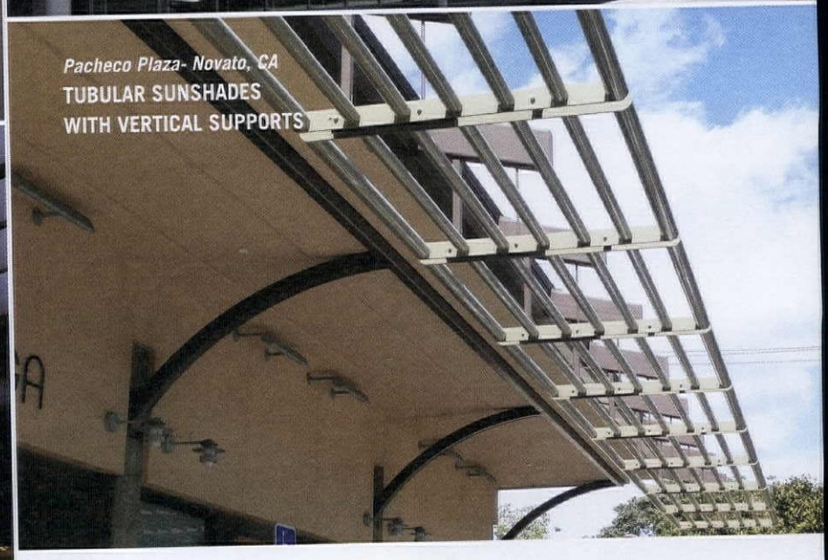


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Photo: Alan Montgomery

The Sweets Spot

SNAP asks Cherie Matthew, AIA, an architect at Corgan Associates in Dallas, to weigh in on the latest product buzz in her city and the projects she's working on. We share what's trending in her region on sweets.com.

FIRM IN FOCUS: CORGAN ASSOCIATES

CHERIE MATTHEW, AIA

ARCHITECT, CORGAN ASSOCIATES, DALLAS

VITAL STATS

FIRM TYPE: ARCHITECTURE, INTERIOR DESIGN

YEAR FOUNDED: 1938

MANAGING PRINCIPALS: BOB MORRIS, FAIA; DAVID LIND, FAIA; JON HOLZHEIMER, AIA

FIRM LOCATIONS: DALLAS, NEW YORK, PHOENIX, LOS ANGELES, HOUSTON, BEIJING, DUBAI.

FIRM SIZE: 400

WHAT DID YOU SEARCH FOR RECENTLY ON SWEETS? *Several articles focusing on sustainable materials we can incorporate into our projects to improve public health, as well as strategies to reduce a building's energy and water consumption. SWEETS also provides access to several BIM models we use in our Revit projects to show the client the product we would like to apply to the design.*

WHAT ARE SOME PRODUCT TRENDS YOU'RE SEEING IN THE DALLAS AREA? *Dallas is aligning efforts for water conservation by xeriscaping building and urban parks with natural rock beds and plants native to North Texas. Several buildings located downtown are inserting LED lighting into their exteriors. The use of frit in glazing to reduce solar heat gain and glare is also influencing building exteriors. We recently constructed Parkland Hospital, near downtown, using a frit. At the micro scale, the frit spells out the names of contributors to the new hospital, and from afar, they appear as large-scale tree graphics.*

WHAT HAVE YOU BEEN SPECIFYING FOR RECENT PROJECTS? *Zinc panels for a feature wall at the East Texas Regional Airport. We chose it for the material's durability and ability to self-repair scratches. The zinc will develop a patina over time that adds to its life span and aesthetic. When we begin an airport renovation, we like to modernize it with durable products using metal panels for the walls and vestibules. We also used curtain walls at the exterior of the terminal to create visible transparency and naturally lit spaces for passenger satisfaction and intuitive wayfinding. To add to the sustainability of several projects located in Texas, we look to use a regional material such as natural limestone panels. At Terminal B in Sacramento, we used redwood reclaimed from a demolished bridge for the ceiling and ticketing-counter canopies.*

DOES CORGAN WORK ON RESILIENT DESIGN? *We have significant experience in hardened facilities. Our data-center projects and airport terminals are routinely required to withstand significant weather events and terrorist attacks. Requirements vary depending upon the geographic location and other factors.*

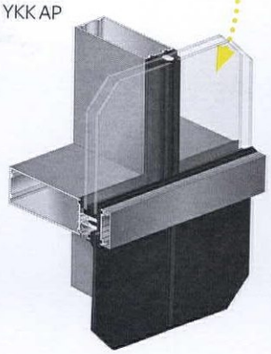
Corgan used reclaimed redwood in the ceilings and at the ticket counter in the Sacramento International Airport.

ARE THERE ANY PRODUCTS YOU SEE AS THE NEXT BIG THING? *I've noticed sustainability broadening its reach into ergonomics. Design is expanding to the individual and how people can maintain a healthy and active lifestyle during the workday. Sit/stand stations are becoming more the norm, and Corgan recently modified work spaces with adjustable monitor mounts and keyboards to suit this purpose. —Anna Fixsen*

What's trending on sweets.com, including a look at top searches from the Texas area.

WHAT'S TRENDING IN CURTAIN WALLS
(OVER A 12-MONTH PERIOD)

PPG ARCHITECTURAL GLASS
EFCO CORPORATION
KAWNEER
W&W GLASS
KALWALL
YKK AP



Kawneer's 1620/1620 SSG curtain-wall system.

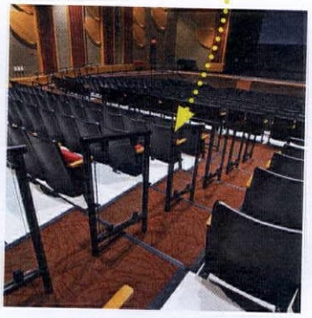
WHAT'S TRENDING IN SHEET-METAL WALL CLADDING
(OVER A 12-MONTH PERIOD)

METL-SPAN
CENTRIA
IMETCO
PETERSEN ALUMINUM

Petersen Aluminum's Snap-Clad and Flush panels on a residence hall at the New Hampshire Institute of Art.

TOP SEARCH TERMS IN TEXAS
(OVER A 12-MONTH PERIOD)

STAIRS
INTERIOR DOORS
RAILINGS
AWNINGS
METAL ROOFING



Interna-Rail system with glass infill from Hollaender.

WHAT'S TRENDING IN BLAST-RESISTANT DOORS
(OVER A 12-MONTH PERIOD)

OVERLY DOOR CO.
INTERNATIONAL DOOR
SECURITY METAL PRODUCTS

Blast-resistant door assembly from Security Metal Products.

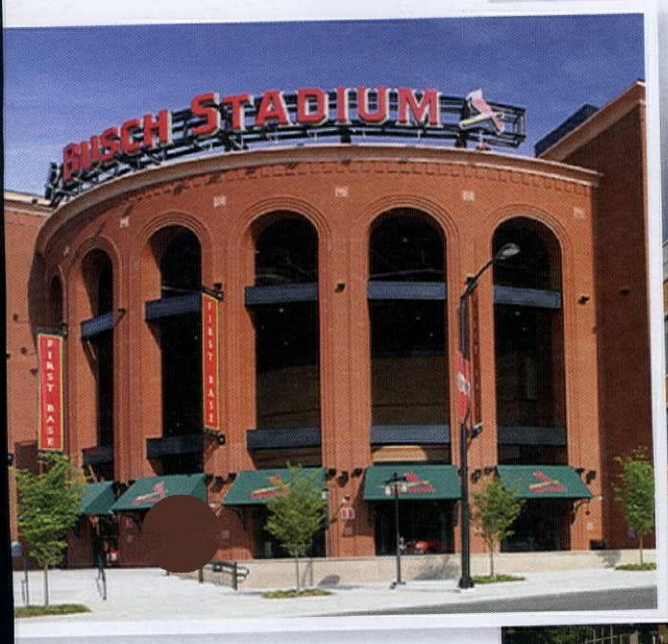
MOST-VIEWED MANUFACTURERS BY TEXAS USERS
(OVER A 12-MONTH PERIOD)

JAMIESON-MANUFACTURING
BERRIDGE
ACME BRICK COMPANY
GAF
CR LAURENCE

Acme Brick on a building at the University of Texas at Austin.

WANT TO HIT THE SWEETS SPOT? *Send us a note about your firm at snap.products@mhfi.com. Follow us on Twitter: @Sweetsproducts*

Belden delivers more.



BELDEN
THE BELDEN BRICK COMPANY

The Standard of
Comparison since 1885

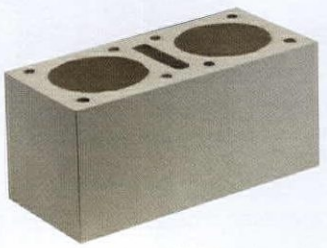
An ISO 9001:2008 Registered Quality Management System
An ISO 14001:2004 Environmental Management System

330.456.0031
www.beldenbrick.com

Ambassador - 3-5/8" x 2-1/4" x 15-5/8"

Double Monarch - 3-5/8" x 7-5/8" x 15-5/8"

6" Thru-Wall - 5-5/8" x 3-5/8" x 15-5/8"



8" Double Thru-wall - 7-5/8" x 7-5/8" x 15-5/8"

More Colors, Sizes, Shapes & Textures

The Belden Brick Company is proud to give customers more choices. With a selection of more than 300 colors, 20 different sizes, 13 textures and unlimited shapes, Belden Brick offers the widest range of products to choose from.

That is why since 1885, The Belden Brick Company has been recognized as the quality leader in the brick industry.

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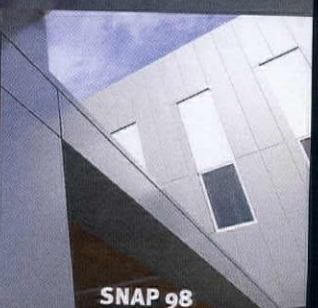
WE UNDERSTAND

ESSENTIAL

Durability, versatility and design integrity: These are essentials every architectural material must provide. Our collaborative approach helps bring all the essentials of your design to reality. Achieving your vision: That's essential. Visit alpolic-americas.com to understand.

ALPOLIC®
MATERIALS

Let's Build



TamlynWrap™

Drainable Housewrap

The New Standard in Housewrap

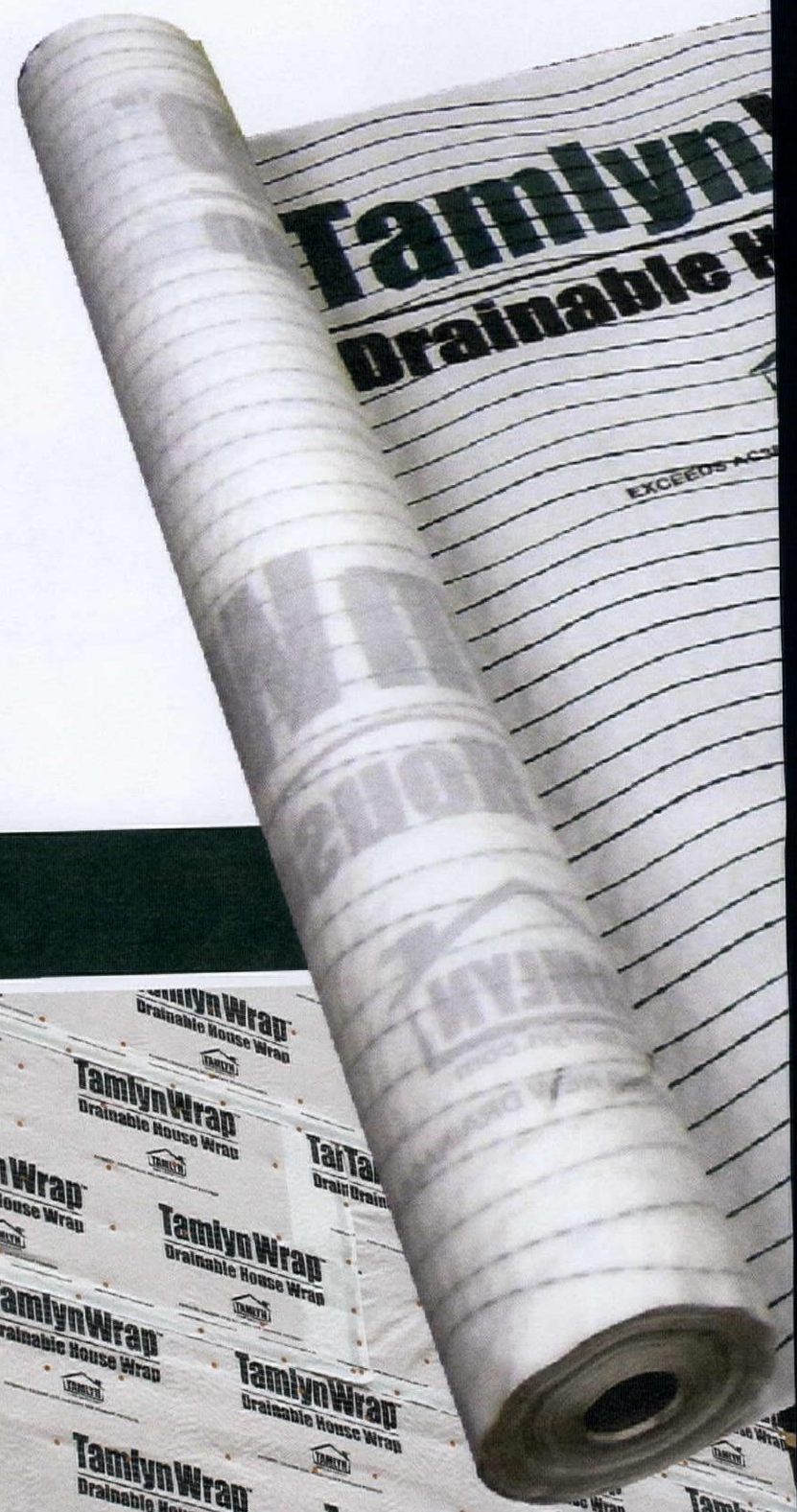
This innovative product effectively eliminates excess moisture and mitigates the damaging effects of mold and rot. Its unique design removes at least 100 times more bulk water from a wall versus standard housewraps.

This is achieved through the gap created by 1.5 mm spacers bonded to a high performance housewrap. This patented gap design provides a true drainage space between the sheathing and cladding material.

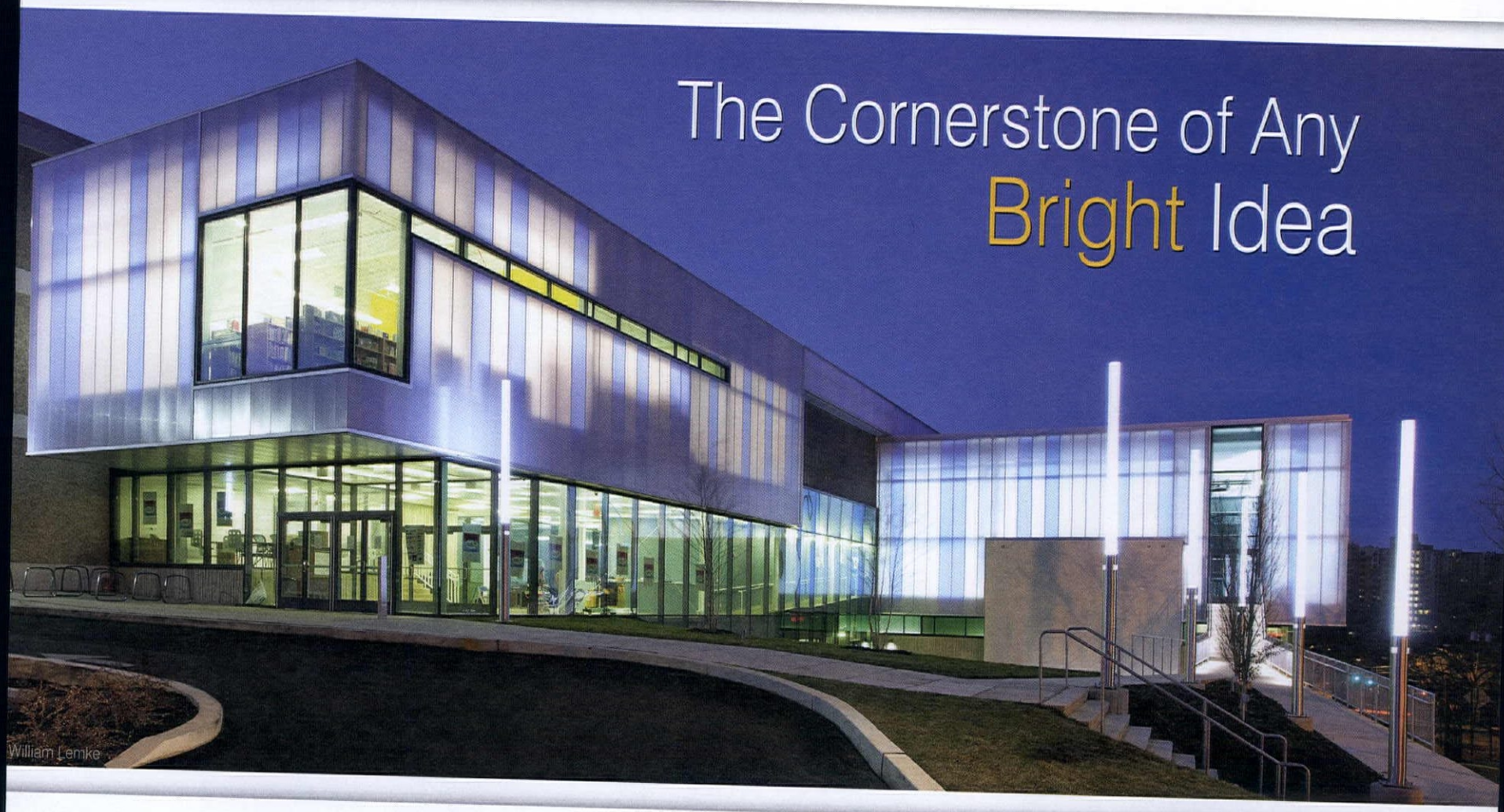
Filaments/spacers also add strength so TamlynWrap™ holds up better under typical jobsite high winds and avoids cost of re-wrapping, saving thousands of dollars versus other wraps.

For more information
visit www.TamlynWrap.com
or call us at (800) 334-1676

SNAP 73



"When Doing It Right Matters"



Translucent Building Envelope Solutions

UniQuad® - a unitized insulated translucent panel system developed for high-performance building envelopes. This comprehensive system offers exceptional design versatility that allows you to combine the performance you need with the look you want.

- Unitized System - Fast, Cost-Effective Install
- Long-Span Capability
- Bi-Color Design Options
- Scalable Performance Options
- RST - Removable Skin Technology

CPIDAYLIGHTING.COM | 847.816.1060
info@cpidaylighting.com

CPI DAYLIGHTING
Quality Comes to Light®

UniQuad®
Unitized Daylighting System

Eagle Academy, Washington D.C. ***Architect:*** *Shinberg Levinas Architects*

PYROSAFE™ Fire-Rated Glass and Framing Systems.

AGC's Pyrosafe™ family of fire-rated glass and framing systems offers the protection and code compliance your project demands—as well as the ability to bring inspired designs to life.

Ratings of up to 180 minutes can be achieved with glass that is wireless, colorless, and distortion free. So you can be sure your design vision will always come through.

PYROBEL® 45-120 | PYROEDGE® | PYRAN® PLATINUM | STILELITE™ FRAMING

Visit pyrosafeglass.com or call 877.376.3343 to learn more. Visit us at us.agc.com or email us at info@us.agc.com

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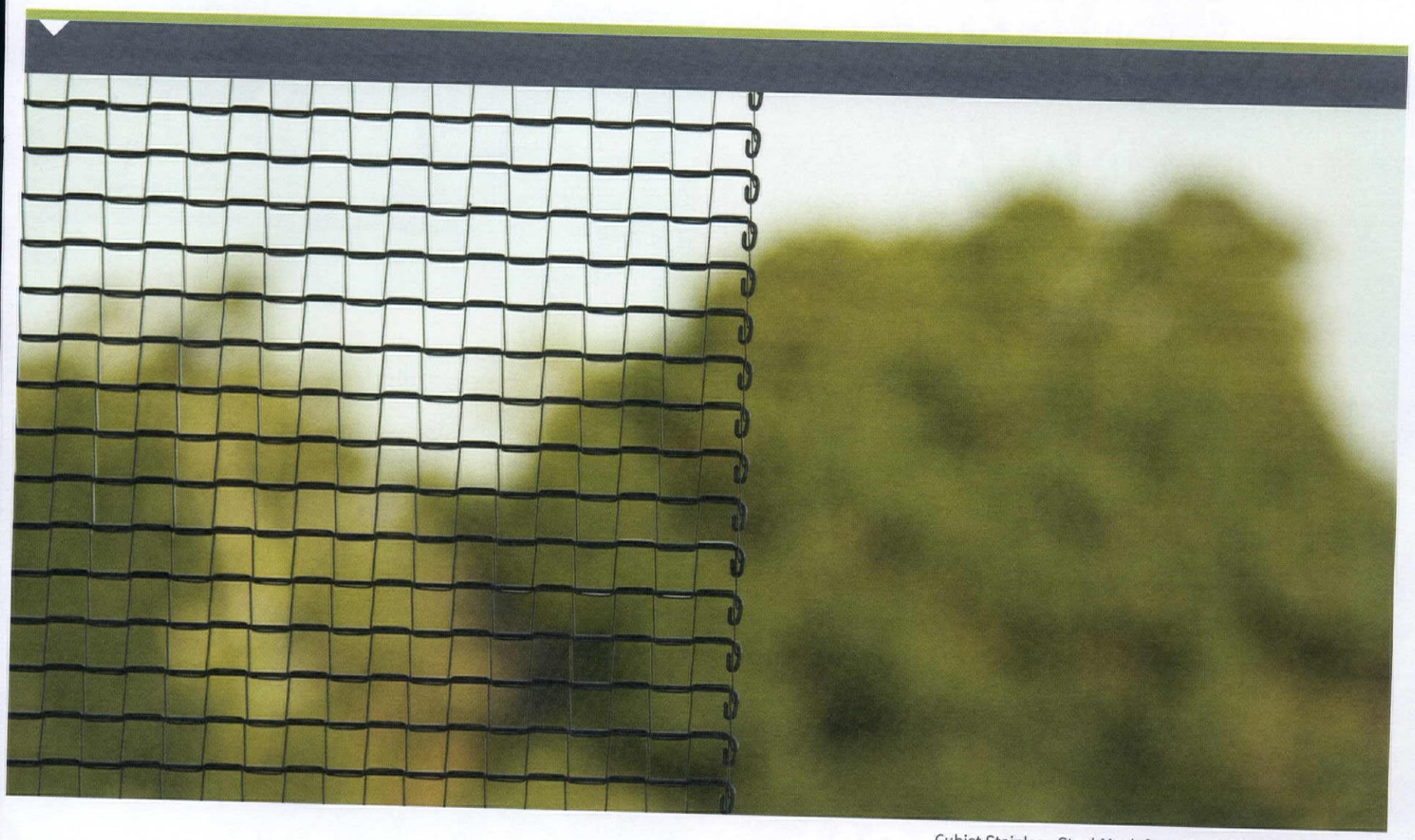
MANUFACTURERS' SPOTLIGHT SECTION

Look to these pages for products brought to you directly from manufacturers. You'll find the information you need to make SNAP decisions: price, performance data, product application, and contact information. Use the reader service card in the issue or go online at sweets.com to request further details.



Cubist Stainless-Steel Mesh from Cambridge Architectural can help reduce glare and solar heat gain. (**SNAP #34**))

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Doors, Windows ..... Pgs. 89-92
Doors, windows, storefronts, entrances, glazed curtain walls, skylights, translucent wall and roof assemblies.

Interior Finishes, Furnishings ..... Pgs. 97
Products for finishing and furnishing building interiors, such as flooring, wall coverings, ceilings, furniture, shelving systems, coat racks, and window treatments.

Roofing, Siding, Thermal & Moisture Protection ..... Pgs. 101-104
Products for constructing the building envelope, such as exterior wall and roof panels, sheathing, thermal insulation, and waterproofing.

Materials ..... Pgs. 109-110
Basic products, such as lumber, concrete, and masonry units used in construction. Includes paint, coatings, structural materials and fittings, and products designed for more generic use in multiple applications.

Equipment ..... Pgs. 115
Equipment for a broad range of applications, such as A/V and multimedia, conveyance, such as elevators, and household use, including appliances.

Mechanical Systems, HVAC, Plumbing ..... Pgs. 117
Products for conditioning, moving, holding, and otherwise controlling air, water, and other fluids. Includes plumbing products, fans, ventilators, and boilers.

Landscaping, Sitework ..... Pgs. 121-122
Exterior improvement products, such as site furniture, bicycle racks, bollards, pavers, landscape edging, and exterior green walls. Also includes trellis systems, gazebos, and other site structures.

Specialty Products ..... Pgs. 127-134
Products for special applications, or products that may apply to more than one category, such as railing systems, fencing, gates, ladders, columns, signage, awnings, and canopies.

Question:

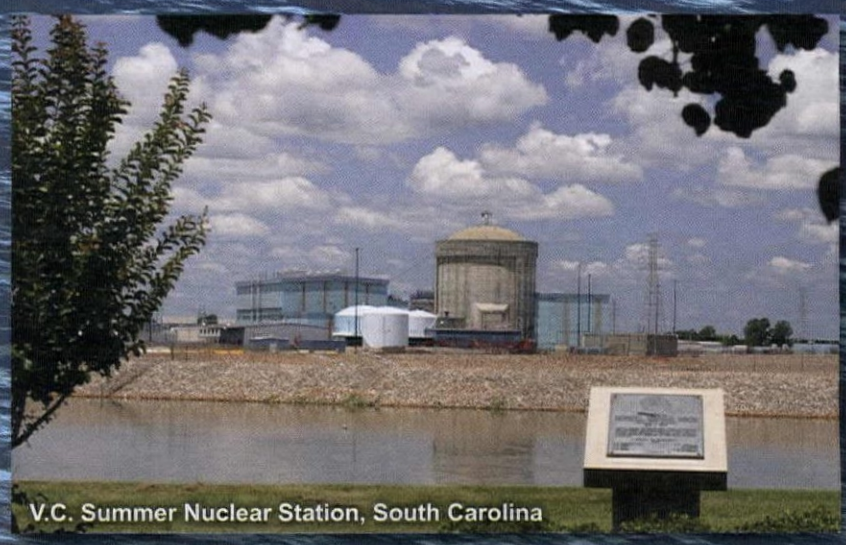
WHAT DO THE WHITNEY ART MUSEUM, NASA, & THE V.C. SUMMER NUCLEAR STATION HAVE IN COMMON?

Answer:

FLOOD PROTECTION FROM WALZ & KRENZER OF COURSE!

Whitney Museum, New York

NASA, Texas


V.C. Summer Nuclear Station, South Carolina

Contact the experts at Walz & Krenzer for all your flood barrier, watertight and blast closure needs.

Walz & Krenzer, Inc.

91 Willenbrock Rd., Unit B4, Oxford, CT 06478 • www.floodbarriers.com
Tel: 203-267-5712 • Fax: 203-267-5716 • E-mail: sales@wkdoors.com

PRODUCT SPOTLIGHTS

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DOORS, WINDOWS

STRUCTURAL THERMAL BARRIER TECHNOLOGY SAVES ENERGY

GREEN

Azon

Structural thermal barrier technologies for energy efficiency and high strength for aluminum fenestration products used in the building envelope.

Product Application

- Storefront and curtain wall applications
- Commercial aluminum, windows, doors and skylights
- Thermal barriers for commercial aluminum framing

Performance Data

- Intelligent technologies reduce overall U-factor
- Higher CRF (condensation resistance factor)

www.azonintl.com
800.788.5942

SNAP 100

DOORS, WINDOWS

FIRE-RATED GLASS APP

NC | NEW

SAFTI FIRST Fire Rated Glazing Solutions

The free mySAFTI App helps you select the correct fire-rated glass and framing products w/ an interactive product selector, using an Apple or Android device.

Performance Data

- Architects, specifiers and glazing professionals can make their selection based on fire rating or applications

www.safti.com/iphone
888.653.3333

SNAP 101

DOORS, WINDOWS

A NEW CLASS OF MULTI SLIDE

NEW | WR

LaCantina Doors

LaCantina Doors' new class of multi slide combines the strength and symmetry of a lift & slide door with the functionality and value of a multi slide.

Product Application

- Panels with consistent width stiles & rails
- Stacking, pocket and zero post configurations
- Up to 6 panels in each direction

Performance Data

- Overall DP 45 rating for air, water & structure
- Weather resistant, flush and commercial sill options
- AAMA-certified rollers

www.lacantinadoors.com
888.848.6191 | sales@lacantinadoors.com

SNAP 102

DOORS, WINDOWS

CURTAIN WALL, STOREFRONT, ENTRANCE

$$ | GREEN

Pittco Architectural Metals, Inc.

Pittco offers a wide array of curtain wall, storefront and entrance options.

Product Application

- The Disney Concert Hall, Los Angeles, CA
- US Botanic Gardens, Washington, DC
- Seattle Seahawks Stadium, Seattle, WA

Performance Data

- Custom capabilities
- Almost unlimited array of aluminum shapes, colors and glazing systems

www.pittcometals.com
847.593.3131 | Susan Jensen

SNAP 103

DOORS, WINDOWS

LIGHT-DUTY PIVOTS

$$

Rixson

Rixson light-duty pivots 173 and 176 bring high-end door control to lightweight low-frequency doors.

Product Application

- Light-duty applications
- Ideal for commercial tenant spaces and high-end residential applications

Performance Data

- Interior doors up to 150 lb
- 173 for offset applications; 176 for center hung

www.Rixson.com
704.233.1586 | Lana Kirkpatrick

SNAP 104

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

DOORS, WINDOWS

CAST IRON DOOR CLOSER

$$$

Norton Door Controls

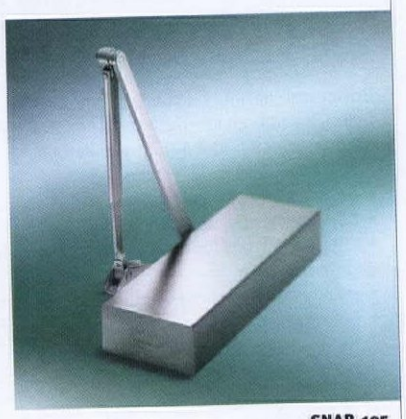
Ideal for high-use openings, the Norton 9500 Series Cast Iron door closer offers durability, flexibility and strength.

Product Application

- Forged standard and heavy-duty arms
- Adjustable spring sizes 1-6
- Closer mounting installation bracket standard

Performance Data

- Exceeds 20 million cycles (witnessed and verified by UL)
- 25-year limited warranty



www.nortondoorcontrols.com
704.233.1586 | Lana Kirkpatrick

SNAP 105

DOORS, WINDOWS

HURRICANE FOUR-FOLD DOORS

NEW

International Door, Inc.

Miami Dade tested and approved for pressure rating and missile impact criteria.

Product Application

- Fire stations
- Multi-modal facilities
- Municipal facilities
- Rail car maintenance facilities
- Special-purpose openings

Performance Data

- Pressure rated to +/- 65 PSF or greater
- Missile impact rated
- Miami Dade Testing Criteria TAS 201, 202 and 203

www.international-door.com
734.459.3000

SNAP 106

DOORS, WINDOWS

MAXIMUM DAYLIGHTING

NEW | $$

Wasco Skylights

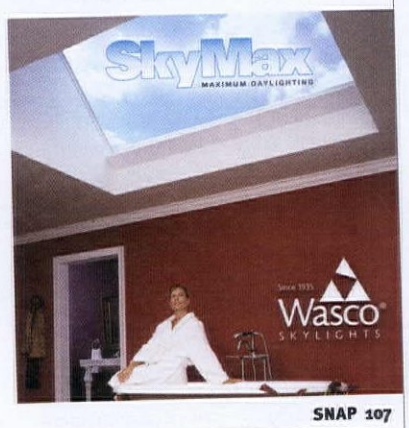
Single light up to 32 sq ft! SkyMax combines the thermal efficiency of smaller vinyl frame units with the structural benefits of aluminum frame skylights.

Product Application

- Schools, offices, warehouses, private residences
- Retail environments, big box stores, malls

Performance Data

- NFRC certified, 10-year warranty
- Meets IECC, Title 24, OSHA standards



www.wascoskylights.com
800.388.0293 | Customer Service

SNAP 107

DOORS, WINDOWS

SURFACE APPLIED DOOR CLOSER

$$ | GREEN

DORMA

TS93 cam-and-roller designed closer rapidly lessens opening forces. Requires less effort for children, elderly, people with disabilities to open door.

Product Application

- TS9315 meets ADA requirements
- Environmental Product Declaration (EPD) available
- Fire/life/safety models

Performance Data

- Firmly latches; 33% more closing force than rack & pinion surface closers
- 28+ years proven performance

www.dorma.com
800.523.8483 | Kim Pinegar

SNAP 108

DOORS, WINDOWS

ELECTRONICALLY TINTABLE GLASS

SAGE Electrochromics, Inc.

SageGlass® dynamic glass electronically tints or clears enabling you to control sunlight without blinds or shades, optimizing daylight and saving energy.

Product Application

- Windows, skylights and curtain walls

Performance Data

- Reduce a building's cooling load by 20%
- Reduce HVAC requirements up to 30%
- Dynamic range: 60% Tvis - 1% Tvis

www.sageglass.com
877.724.3321 | Andrew Hulse

SNAP 109

DOORS, WINDOWS

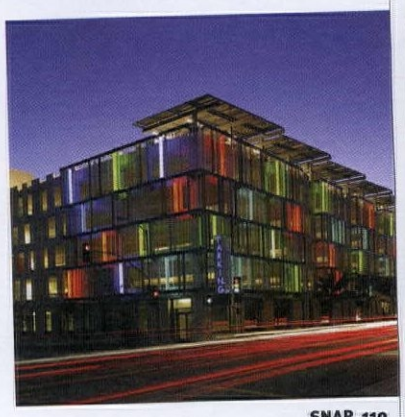
LAMINATED GLASS INTERLAYERS

Eastman Chemical

Architects and designers trust Saflex® and Vanceva® branded laminated interlayers when safety, security, structural, acoustic and aesthetics are their most critical glazing concerns.

Product Application

- Windows, doors, skylights, curtain walls, railings and facades



www.saflex.com
314.674.2773 | Doug Marren

SNAP 110

DOORS, WINDOWS

HUNG REPLICA THERMAL WINDOW

$$ | GREEN

Traco

Traco NX-4000 Series Thermal Projecting Window offers the distinctive and historic look of a hung window with high energy efficiency.

Product Application

- Commercial retrofit applications
- Low-, mid- or high-rise projects
- Ideal for schools and institutional projects

Performance Data

- Rated AW-PG80-AP—design pressure of 80 psf
- Tested to water performance level of 15 psf

www.kawneer.com
770.840.6448 | Glenda Jackson

SNAP 111

DOORS, WINDOWS

STACKABLE SLIDING GLASS

$$$

Hawa Americas Inc.

HAWA-Variotec 150/GV is a hardware system for sliding, stackable all-glass walls with flexible track routing for panels between 154-330 lb.

Product Application

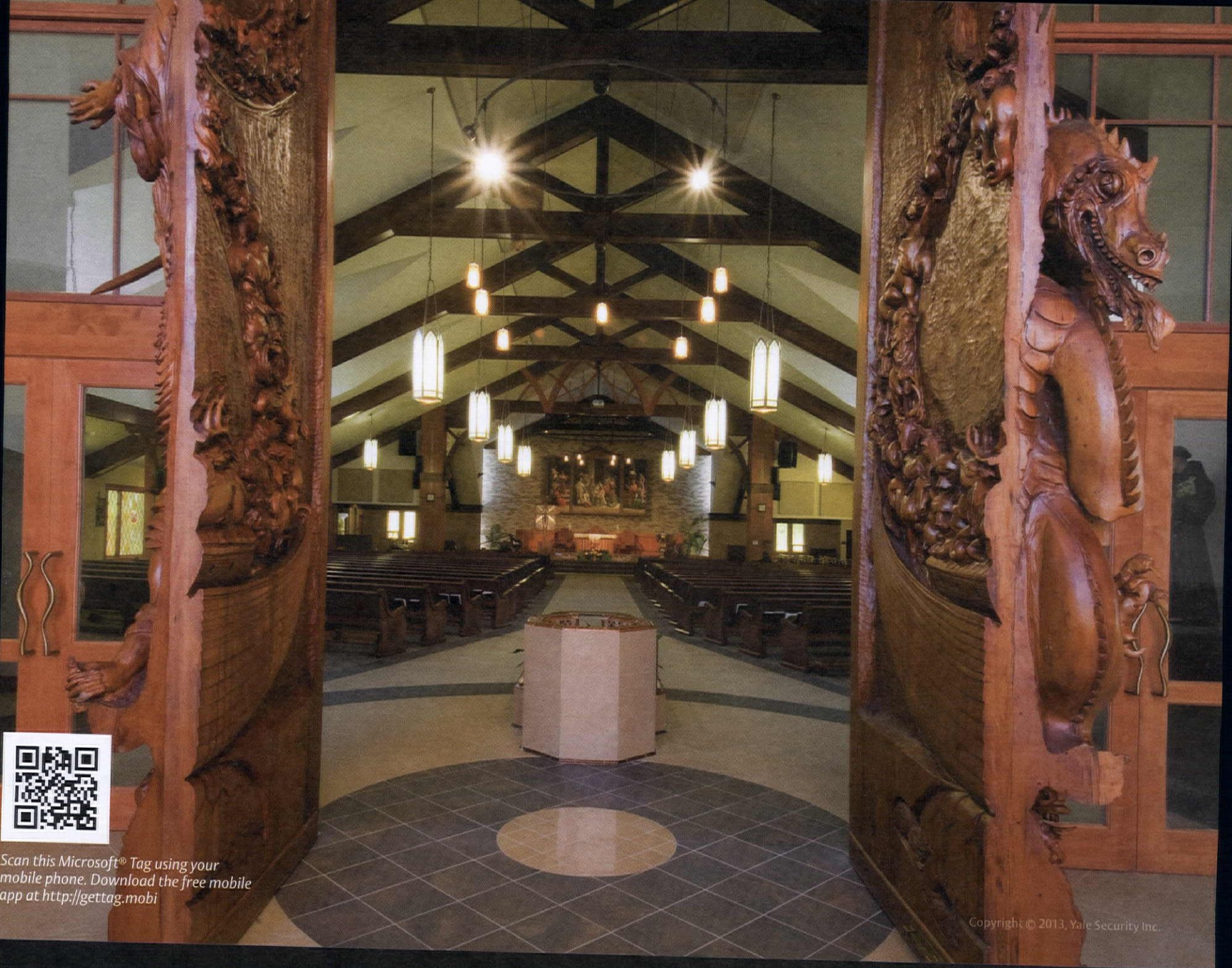
- Commercial, hospitality & residential
- Pivot doors may be integrated into system
- Accepts fully laminated or fully tempered glass

Performance Data

- Extremely smooth & quiet operation
- Track allows directional changes from 15° to 90°

www.hawa.com
214.760.9054 | payne.chariessa@hawa.com

SNAP 112



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Sometimes what you don't see is just as important as what you do.

RIXSON®

ASSA ABLOY

An architect's vision often leads to majestic and imaginative new designs. That's why they count on RIXSON, the company that makes it possible for their buildings to be adorned with highly impressive openings.

From the most modest to the grandest of doors, RIXSON's concealed closers and pivots ensure effortless operation and superior performance, without sacrificing lasting beauty.

Left to Right:
Electromagnetic Door Holder/Release, Offset Pivot, Floor Closer, Checkmate® Stops and Holders

For more information, scan the QR code above or visit www.rixson.com

ASSA ABLOY, the global leader in door opening solutions

DOORS, WINDOWS

SLIDING DOOR HARDWARE

Specialty Doors

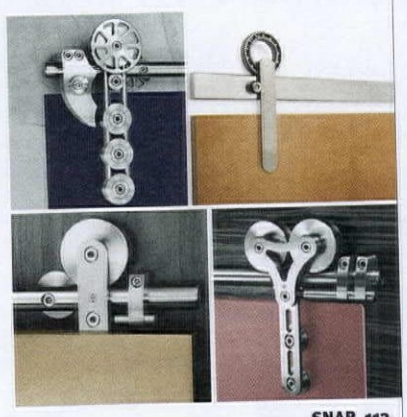
World's largest selection of sliding door hardware.

Product Application

- Hotels, lofts, bathrooms, spas, offices, residential

Performance Data

- Saves 14 sq ft of floor space over swinging door
- Any door, frameless glass, wood, metal



www.barndoorhardware.com
866.815.8151 | Tom Gross

SNAP 113

DOORS, WINDOWS

MEETING FUTURE REQUIREMENTS TODAY

Revere Building Products

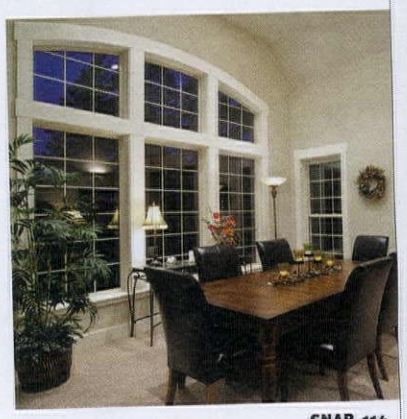
Exceptional craftsmanship and remarkable energy-saving performance—Berkshire Elite is everything you're looking for in a quality replacement window, and more.

Product Application

- Residential or light commercial
- Replacement/retrofit

Performance Data

- Fusion-welded, multi-chambered construction
- Berkshire Elite windows meet future Energy Star performance requirements today!



www.RevereBuildingProducts.com

SNAP 114

DOORS, WINDOWS

WT HATCH WITH PANIC BAR OPERATION

NEW

Walz & Krenzer

The first truly watertight hatch designed to mount flush into the ground surface with panic bar operation from below.

Product Application

- Subway systems
- Sidewalks/tunnels
- Anywhere a watertight emergency egress hatch is needed

Performance Data

- Low-force panic bar operation
- HS-20 vehicle loading
- Counterweight balanced for easy opening/closing

www.floodbarriers.com
203.267.5712 | Ben Rising

SNAP 115

DOORS, WINDOWS

ONE-PIECE HYDRAULIC DESIGNER DOORS

Schweiss Doors

Schweiss Doors, Moving Walls. Schweiss Doors manufactures custom designer doors like this one-piece hydraulic door for Under Armour in Maryland.

Product Application

- Moving doors and walls
- Custom-designed storefronts and more

Performance Data

- One-piece hydraulic doors
- Faster, safer operation
- Zero lost headroom
- Superior design that keeps working

www.schweissdoors.com
800.746.8273 | schweiss@schweissdoors.com

SNAP 116

DOORS, WINDOWS

ACOUSTICAL DOOR SEALS

$$

Zero International

Designed and made with top-quality USA materials and with adjustable features for easy installation, reliable performance and sound ratings to 51 STC.

Product Application

- Perfect for hospitals, schools, hotels or any door where sound control matters

Performance Data

- Check with the engineering department for specifics

www.zerointernational.com
718.585.3230 | Jerry Heid

SNAP 117

DOORS, WINDOWS

ITALIAN GARAGE DOOR COLLECTION

$$$

Amarr Garage Doors

Beauty and innovation. The Trento wood garage door has no tracks, springs or rails. Two sections overlap as the door opens, freeing up space inside.

Product Application

- Garages with limited headroom, backroom and sideroom
- Garages in historical homes, townhomes or used as living spaces

www.amarr.com
336.251.1295 | Vickie Lents

SNAP 118

DOORS, WINDOWS

NEW CONTEMPORARY COLLECTION

WR

Weather Shield Windows and Doors Medford, Wisconsin

Narrow sightlines, more glass and wide range of colors, finishes and custom capabilities highlight this new line of high-performance windows and doors.

Product Application

- Residential
- Luxury residential
- Light commercial

Performance Data

- U-values of .30 to .25
- SHGC of .28 to .17

www.weathershield.com
800.222.2995 | Jeff Kibler

SNAP 119

DOORS, WINDOWS

GLARE-FREE TRANSLUCENT SKYLIGHTS

GREEN

Major Industries, Inc.

Guardian 275® translucent panel skylights are lightweight, provide enhanced thermal performance and offer occupants diffuse, glare-free natural light.

Product Application

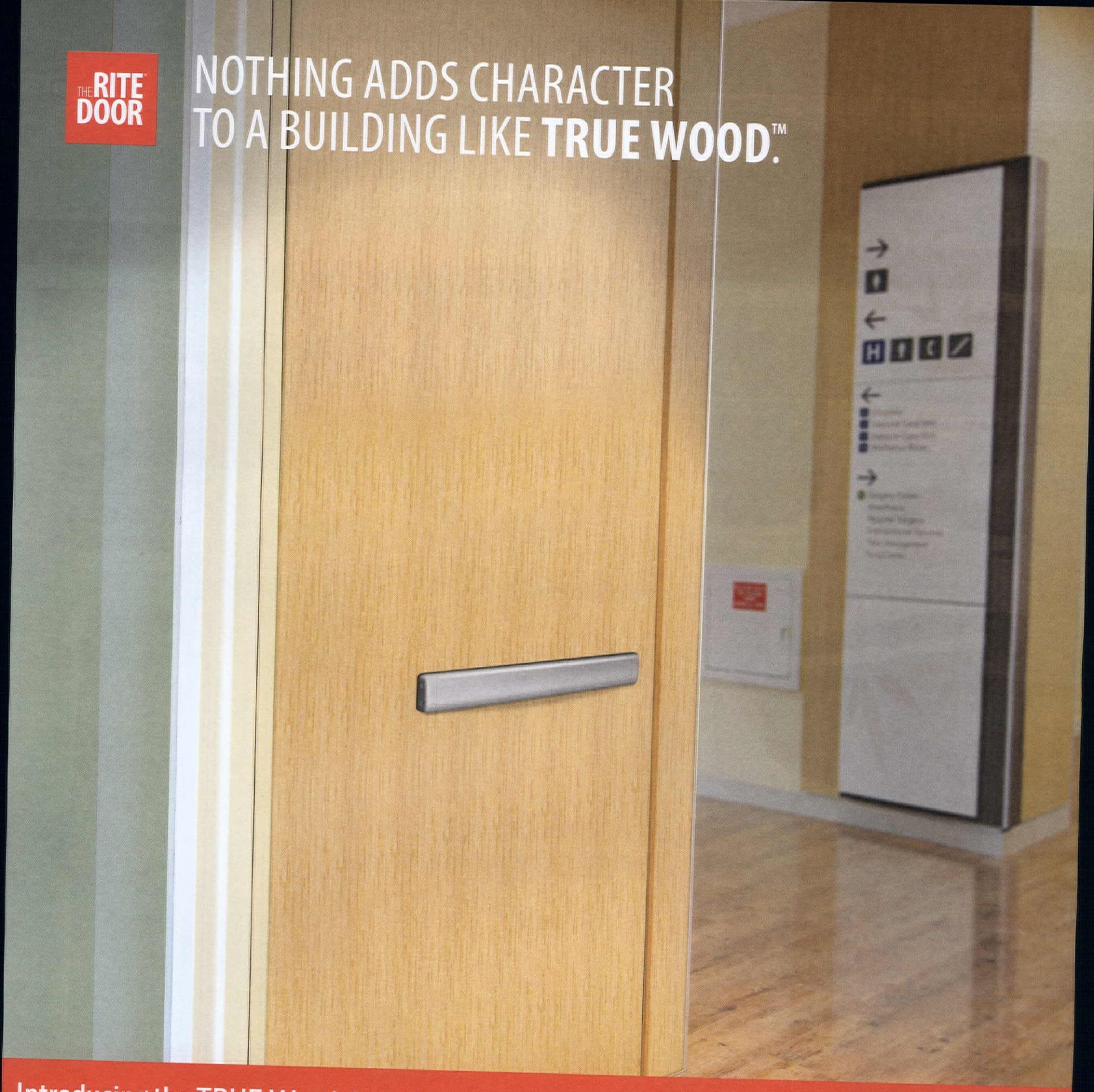
- Skylights, wall systems and canopies available
- Specialty applications available - blast/hurricane protection, removable and more

Performance Data

- Center of panel U-factors as low as .06 w/ 4-in. system/.08 with 2.75-in. system
- Control solar heat gain and block over 99% of UV

www.majorskylights.com
888.759.2678

SNAP 120



Introducing the TRUE Wood door, the only integrated wood door system with inset hardware.

The new TRUE Wood door from Adams Rite offers unlimited custom finishes to match your architecture. The integrated system is pre-assembled, installing in a fraction of the time. All components carry a warranty, with no service contract required. Plus, it is fire-rated and LEED qualifying. Contact Adams Rite to learn how the beauty of TRUE Wood can enhance your architecture.

Adams Rite

ASSA ABLOY

ASSA ABLOY, the global leader in door opening solutions

SNAP 290

RITEDOOR.COM | 1.800.872.3267

Alumatec Pacific Products

For all your rolling and side-folding security door needs
with the fastest lead-time in the industry

THREE DAYS TO SHIP ON ALL MODELS

AT-9 Model,
(open) roll-up grille

LXR Model,
polycarbonate roll-up grille

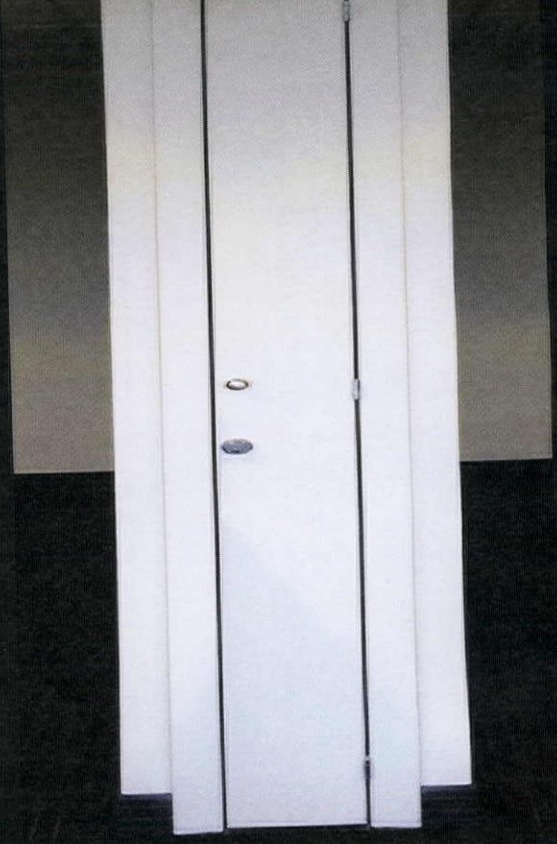
PFR Model,
perforated roll-up grille

S-2 Model,
solid aluminum shutter

- Roll-up Security Grilles
- Side Folding Security Grilles
- Aluminum Counter Shutters
- Parts and Service
- Installation
- Turnkey Projects

PFC 20 Model, solid counter shutter

ST-12 Model, (open) side-folding accordion grille



Pocket Door & Frame

LXS Model,
polycarbonate side-folding accordion grille

PFS Model,
perforated side-folding accordion grille

alumatec
PACIFIC PRODUCTS

1155 W. 500 North, Centerville, UT 84014

Tel: 801.298.0181 Fax: 801.298.0905 Toll Free: 877.770.0181

sales@alumatecpp.com • info@alumatecpp.com

www.alumatecpp.com

SNAP 315

BRAND NEW **WHILE YOUR BRANDING DOESN'T CHANGE, WE KNOW REQUIREMENTS CHANGE WITH EACH LOCATION.** Mapes canopies take all this into account and can be distributed anywhere in the country. Visit our website to view project galleries, build a spec, or submit a quote. **888-273-1132 WWW.MAPESCANOPIES.COM**

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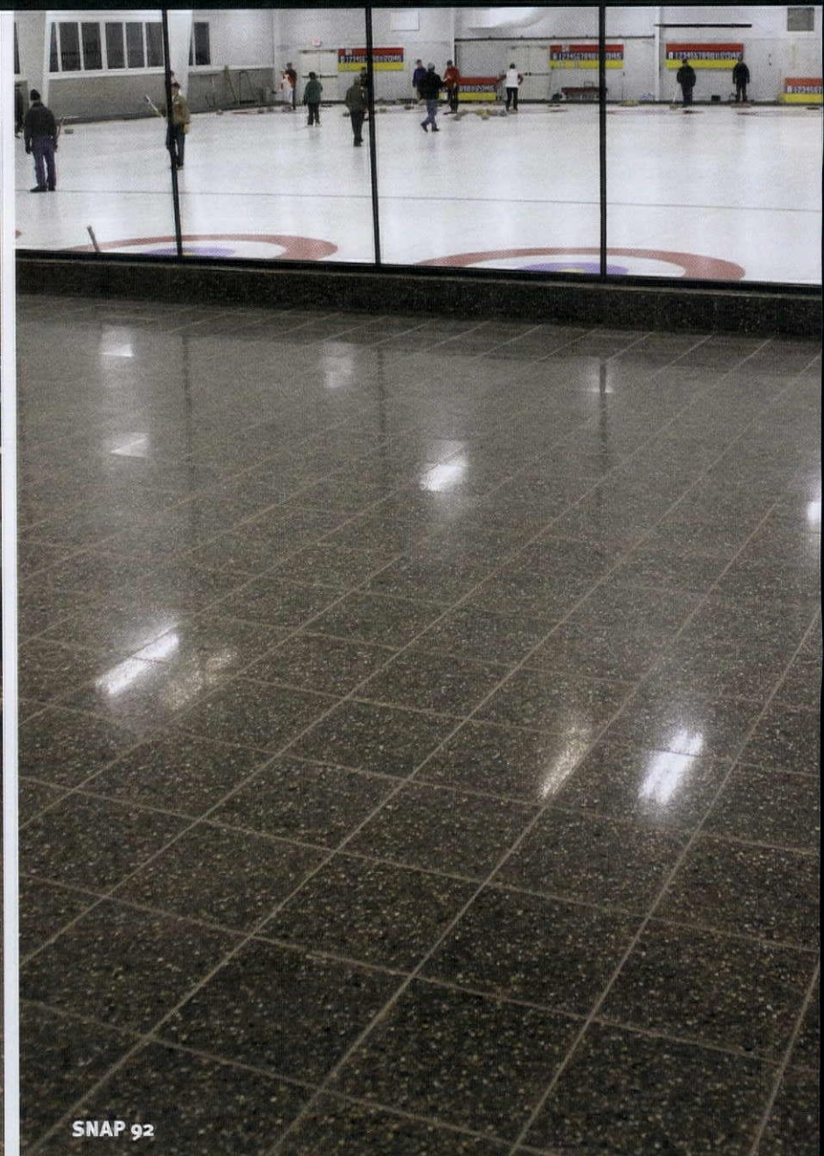

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	89-92
INTERIOR FINISHES, FURNISHINGS	**PGS.**	**97**
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104
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Equipment	Pgs.	115
Mechanical Systems, HVAC, Plumbing	Pgs.	117
Landscaping, Sitework	Pgs.	121-122
Specialty Products	Pgs.	127-134

INTERIOR FINISHES, FURNISHINGS

AFFORDABLE REVEALS

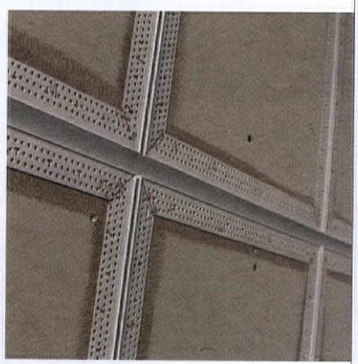
$ | GREEN

Trim-Tex, Inc.

Create aesthetic wall reveals in multiple widths and depths. No backing or blocking required.

Product Application
- Decorative wall designs
- Modern interior finishing

Performance Data
- Built-in expansion 1/8 in.
- UV stabilized
- Composed of 70% recycled material



www.trim-tex.com
800.874.2333

SNAP 121

INTERIOR FINISHES, FURNISHINGS

SEAMLESS HIGH-DESIGN FLOOR SYSTEMS

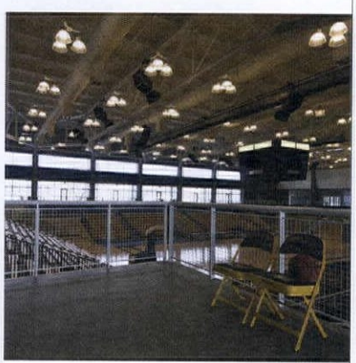
$$

Stonhard

Stontec URF is a seamless, chemical-, stain- and impact-resistant, urethane-based floor system with a decorative flake-infused design. A designer's choice.

Product Application
- Stadiums and entertainment venues
- Restaurant, food court and concessions
- Box suites, locker rooms and concourses

Performance Data
- Seamless, easy to clean and high performing
- Stands up to heavy traffic and continuous use



www.stonhard.com
800.257.7953

SNAP 122

INTERIOR FINISHES, FURNISHINGS

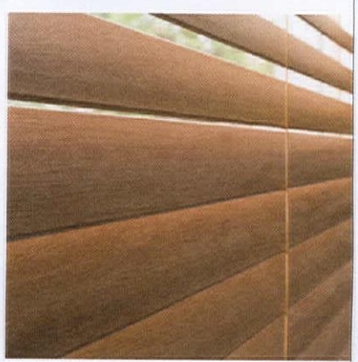
FAUX WOOD BLINDS

Levolor Contract

2-in. and 2-1/2-in. Faux Wood Blinds.

Product Application
- Multifamily
- Healthcare/assisted living
- Hospitality

Performance Data
- Value-priced wood-look blind
- UV stabilized PVC foam that passes flame propagation testing
- Matching valance, bottomrail and tassel



www.levolorcontract.com
336.210.3330

SNAP 123

INTERIOR FINISHES, FURNISHINGS

METAL CANTILEVER SHELVING SYSTEMS

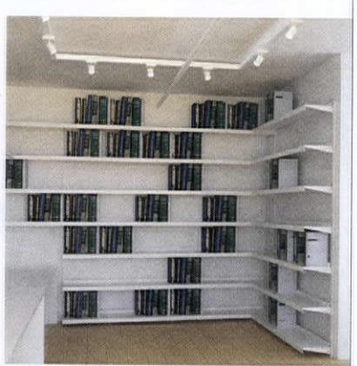
WR | GREEN

E-Z Shelving Systems, Inc.

Attractive, efficient, heavy-duty shelving systems for work, storage and display. Available in galvanized, aluminum, stainless, NSF or in RAL colors.

Product Application
- Trader Joe's, Apple, Conde Nast
- Laboratories, clean rooms, food storage
- Workstations for open floor plans

Performance Data
- Custom fit—wall-to-wall, floor-to-ceiling
- Wall-mounted and freestanding options



e-zshelving.com
800.353.1331 | Jim Parmiter

SNAP 124

INTERIOR FINISHES, FURNISHINGS

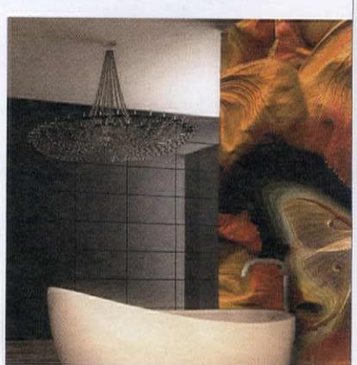
ENDLESS DESIGN POSSIBILITIES

GREEN | NEW

AGC Glass Company North America

Start KLEAR™ and go anywhere with AGC KRYSTAL IMAGES—simply the highest resolution, clearest custom-printed laminated glass available.

Product Application
- Ultra transparent KRYSTAL KLEAR® glass
- Ultra high-definition printing technology
- Industry's clearest glass stays true to spec



us.agc.com
800.251.0441 | info@us.agc.com

Booth: 1021 GlassBuild

SNAP 125

INTERIOR FINISHES, FURNISHINGS

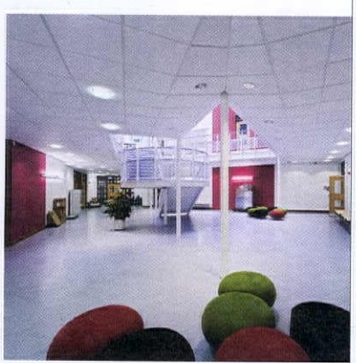
CEILING PANELS

ROCKFON

Blending aesthetics and performance, Rockfon® Koral™ stone wool acoustic ceiling panels offer a smooth white surface with good sound absorption.

Product Application
- Complete ceiling solutions
- Education, healthcare and office

Performance Data
- Highly sound absorbent
- Fire protection as stone wool is non-combustible
- Water resistant so it does not sag or promote fungi



www.rockfon.com
800.323.7164

SNAP 126

INTERIOR FINISHES, FURNISHINGS

CONTRACT WINDOW COVERINGS EST 1986

WR | GREEN | NEW

Mariak Industries, Inc.

Mariak Contract produces thousands of superior-quality window coverings each week for commercial, health-care, educational and military applications.

Product Application
- In-house digital printing
- Roller shades & skylights
- Aluminum & horizontals
- Verticals
- FR cellular
- Cubicle curtain track
- Automation

www.mariak.com
800.562.7425

SNAP 127

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

BARN LIGHT ELECTRIC CO.

WHERE VINTAGE *and* MODERN COLLIDE®

Barn Light Electric lighting comes in a wide variety of classic shapes and sizes to add fuctional style to residential areas or industrial and commercial spaces.

CALL
800.407.8784

VISIT
www.barnlightelectric.com

MADE IN THE USA

Scan the code to learn more about the lights featured in this ad.

WHAT THE BEST DRESSED BUILDINGS ARE WEARING THIS SEASON

Stontec® in Smoky Mountain
manufactured & installed by Stonhard

Seamless, safe, stain resistant floors provide long term, sustainable protection along with inspiring designs. Stonhard manufactures and installs seamless floors for commercial spaces; schools, stadiums, hotels, hospitals, retail and office environments. Performance, design and a single source warranty too.

www.stonhard.com | 800.257.7953

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STONHARD
FLOORS FOR EVERY ENVIRONMENT

Elevated Learning

Because Cameron University's McMahon Centennial Complex serves not only students, but the community as a whole, the facility must be as durable and maintenance-free as possible. Standing seam metal roofing was a perfect choice for its modern appearance, longevity and durability.

Visit **www.mbci.com/cameron** for more information.

Scan the QR code for detailed product information.

PROJECT: McMahon Centennial Complex, Cameron University

LOCATION: Lawton, Oklahoma

ARCHITECT: Frankfurt-Short-Bruza Associates

CONTRACTOR: CMS Willowbrook

PANEL PROFILE: LokSeam® (Slate Gray / Galvalume®)

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MBCI®
Metal Roof and Wall Systems

PHONE: 877.713.6224 E-MAIL: INFO@MBCI.COM

SNAP 83

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	89-92
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Specialty Products	Pgs.	127-134

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ALUMINUM COMPOSITE MATERIAL - ACM

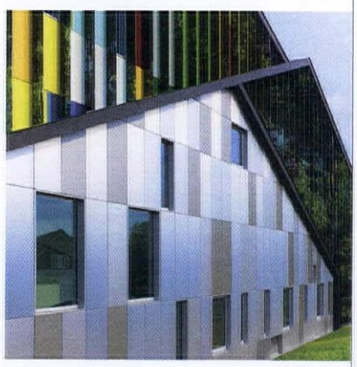
WR

Alucoil North America

Manufactures aluminum & metal composite materials used for exterior wall cladding, corporate ID programs, column covers, interior wall panels & signage in South Carolina.

Product Application
- Rental car center at Boston Logan International Airport

Performance Data
- ICC-ES AC-25 product listing
- USA & Canadian Fire Testing
- 30-year warranty on Kynar finishes



www.alucoilnorthamerica.com
803.505.6543 | Susan Rogers

SNAP 128

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

SINGLE-PLY ROOFING SYSTEM

$$ | GREEN

Duro-Last Roofing Inc.

Ideal for any flat or low-sloped application. Extremely durable, watertight, highly reflective, resistant to chemicals, fire, high winds. Virtually maintenance-free.

Product Application
- DPI Specialty Foods, Henderson, CO
- Tube Specialties, Troutville, OR

Performance Data
- Custom-fabricated flashings for watertight rooftop transitions; roofing membranes precision-fabricated or delivered as rolled goods

www.duro-last.com
800.248.0280 | John Deal

SNAP 129

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

CONCEALED FASTENER WALL PANELS

WR

MBCI

MBCI offers four concealed fastener wall panels, the Designer™ Series, NuWall®, ShadowRib™ and FW Panel.

Product Application
- Denton County Transit Authority, Denton, TX
- West Wichita Family Optometrists, Goddard, KS

Performance Data
- Designer™ Series and NuWall® can be used for new or retrofit construction
- ShadowRib™ and FW Panels carry Florida approval

www.mbci.com
877.713.6224

SNAP 130

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

METAL ROOFING

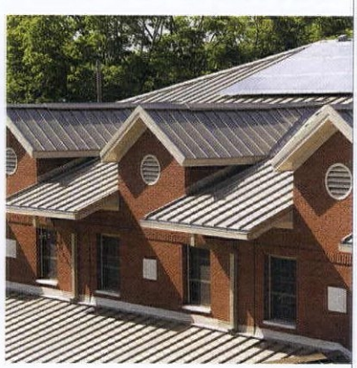
GREEN | $$

Petersen Aluminum Corporation

SNAP-CLAD Metal Roofing Panels feature architectural aesthetics and structural performance. They are corrective leveled for superior flatness.

Product Application
- Madison, TN fire station
- LEED Gold certification

Performance Data
- Available in 38 colors on steel and 37 on aluminum
- 20-year non-prorated finish warranty
- Labor-saving one-piece design



www.PAC-CLAD.com
800.722.2523

SNAP 131

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

FACADES INSPIRED BY NATURE

Dri-Design Inc.

Dri-Design is an advanced and sophisticated metal wall panel system...made simple.

Product Application
- Chinguacousy Sports Park - Shai Gil Photography
- VMZINC - Anthra Zinc
- Fastest, easiest application on the market

Performance Data
- True dry-joint rainscreen system
- Exceeds performance specifications of AAMA 508-07 and Dade County

www.dri-design.com
616.355.2970 | sales@dri-design.com

Booth: 3439 Greenbuild

SNAP 132

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

LIVING WALLS THAT WORK

$$ | GREEN | NEW

LiveWall, LLC

Perfect for growing a broad variety of plants

Designed with a healthy regard for plants, LiveWall® is the planted wall system that achieves simplicity and sustainability in harmony with nature. LiveWall is the result of four years of R&D by professionals who created LiveRoof®, the superior green roof system. LiveWall supports plants as nature intended—roots growing down, stems and leaves growing up. With unsurpassed versatility to grow a diversity of plant types, LiveWall transforms ordinary walls into inspiring vertical landscapes. LiveWall provides industry-leading support with free commercial infrastructure design. Request a free Architectural Guide from LiveWall.com/designguide, code SNAP 14W.

Product Application
- Restaurant/hospitality—grow fresh herbs and produce
- Healthcare/rehab—plant therapy, healing
- Education—improved concentration and learning opportunities

Performance Data
- Free commercial infrastructure design, support
- Four years of R&D—proven to perform
- Natural orientation—promotes plant health
- Rain-like irrigation—promotes plant health

Indoor and outdoor system options

www.livewall.com
877.554.4065

SNAP 208

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

RAISING WALL PERFORMANCE

$ | GREEN

SYNTHEON Inc.

SYNTHEON ACCEL-E® Steel Thermal Efficient Panel wall system combines framing & insulation, making the construction of energy-efficient buildings easier, faster.

Product Application
- Birmingham Airport, Birmingham, AL
- Cornell Elementary School, Pittsburgh, PA
- Mt. Lebanon High School, Pittsburgh, PA

Performance Data
- Exceeds IECC requirements
- NFPA 285 compliant

syntheoninc.com
888.922.2353 | Jeff Peskowitz

SNAP 133

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ROOFTOP WALKWAY & SAFETY RAILING

GREEN

Design Components, Inc.

METALWALK™ Rooftop Walkway along with the optional safety handrail provides safe roof access for any commercial or industrial application.

Product Application
- Protection for both personnel and roof systems
- Non-penetrating attachment for standing seam roofs

Performance Data
- Meets or exceeds OSHA & IBC 2006 specifications
- Available in galvanized, Galvalume™ or painted finish

www.rooftopwalkway.com
800.868.9910

SNAP 134

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

NO-CLEANING GUTTER

WR | GREEN

Rainhandler

Rainhandler Gutter converts roof runoff to rain-sized drops and spreads in a 3-ft swath away from the structure. No ground erosion, no water in basement.

Product Application
- Single-family homes
- Garden apartments and condominiums
- Commercial: schools, libraries, offices, etc.

Performance Data
- No cleaning/maintenance unlike conventional gutters
- 3-ft spread confirmed by independent lab
- Made in USA

www.rainhandler.com
800.942.3004 | Jackie Nguyen

SNAP 135

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ARCHITECTURAL CONCRETE CLADDING

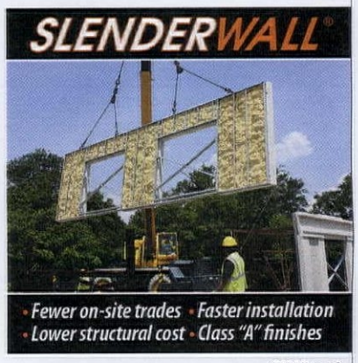
WR | GREEN

Easi-Set Worldwide

Ultra Hi-Performance Slenderwall is a 28 lb/sf award-winning architectural precast concrete and steel-stud exterior panel system wind-load tested to 226 mph.

Product Application
- BioInnovation Center, New Orleans, LA
- Johns Hopkins Hospital, Baltimore, MD
- Westin Luxury Hotel, Virginia Beach, VA

Performance Data
- Continuous closed-cell foam insulation and optional factory-installed windows
- H2Out Pressure Equalized Joint Rainscreen



www.slenderwall.com
800.547.4045 | Arthur Miles

SNAP 136

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

COLOR-SHIFTING FINISHES

Alcoa Architectural Products

PrismFX™ paint system is a new coating option for Reynobond® panels that creates subtle color shifts in different lighting conditions.

Product Application
- Terminal 3 Parking Garage, McCarran International Airport, Las Vegas, NV

Performance Data
- Resistant to humidity, impact, salt spray, pollution and abrasion
- Backed by a 20-year warranty
- 9 color-shifting combinations

reynobond.com
800.841.7774 | Customer Service

Booth: 2839 Greenbuild

SNAP 137

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

MASONRY CAVITY WALL DRAINAGE

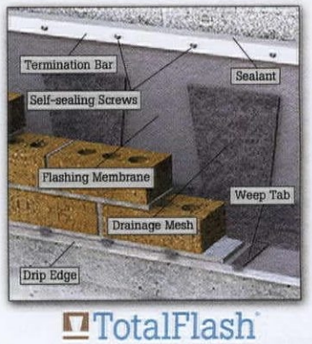
$$ | GREEN

Mortar Net Solutions

Patented TotalFlash® Cavity Wall Drainage Solution is a complete flashing system for masonry cavity walls. 5-ft panels.

Product Application
- Kansas University School of Pharmacy, Lawrence, KS
- Sarasota Fire Station, Sarasota, FL
- Fresenius Medical Center, Salem, OH

Performance Data
- Includes flashing membrane, termination bar, drainage mesh, drip edge & weep tabs
- 4 flashing membranes, 2 term bars, 6 drip edges



www.mortarnet.com
800.664.6638 | Steven Fechino

SNAP 138

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

COMPOSITE ROOF DECK PANELS

WR | GREEN

Tectum Inc.

Tectum Roof Deck composite panels provide a Tectum Acoustical interior with either XPS or EPS insulation & a nailable OSB. Install over wood or steel.

Product Application
- Schools, gymnasiums and public spaces
- Worship facilities and theaters
- Pools, ice rinks and high-humidity environments

Performance Data
- An NRC of up to 1.0
- Light reflectance of up to .75

www.tectum.com
888.977.9691 | Steve Udolph

SNAP 139

VaporBlock®

UNDERSLAB BARRIERS - SPEC3 SHOWCASE

The Leading Manufacturer of Underslab Barriers.

Gas & Moisture

VaporBlock® Plus™

Seven-layer underslab gas barrier produced with premium polyethylene and barrier resins.

- Barrier to Methane, Radon, & VOCs
- Superior Gas/Moisture Resistance
- Exceeds ASTM E 1745-11, Class A

Moisture Vapor

VaporBlock®

High performance multi-layer vapor barrier, made from 100% prime virgin-grade polyethylene.

- Perms <0.01 After Conditioning
- Leading Puncture Resistance
- Exceeds ASTM E 1745-11, Class A

Recycled LEED

VaporBlock® G™

Sustainable alternative to regular barriers, multi-layer barrier with post-consumer content.

- Eco-Friendly Recycled Resins
- Qualifies for added LEED Credits
- Exceeds ASTM E 1745-11, Class A

SPEC3

Raven vapor retarders/barriers save time, money and energy by creating a barrier against moisture and gas migration under concrete slabs and foundations. The Raven Spec3 Showcase features top performing VaporBlock® products for gas and moisture protection, including a new green barrier with recycled content to qualify for additional LEED credits. Raven Industries manufacturers all products through our stringent ISO 9001:2008 certified management system and tightly controls the process through an internal accredited laboratory, as well as extensive independent testing to support our products.

Get In Touch

Tel: 800-635-3456

www.RavenEFD.com/snap

Proudly Manufactured in the USA

VaporBlock G™ UNDERSLAB VAPOR RETARDER/BARRIER CONTAINS RECYCLED CONTENT

VaporBlock® UNDERSLAB VAPOR RETARDER

VaporBlock® Plus™ UNDERSLAB VAPOR RETARDER / GAS BARRIER

RAVEN ENGINEERED FILMS

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ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

PERFORATED SCREEN AT WAKE TECH

$$

MORIN, A Kingspan Group Company
Bristol - Deland - Fontana

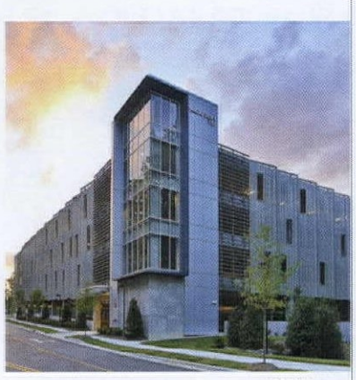
MORIN provided stainless steel perforated screen wall panels to minimize the amount of sunlight and UV rays hitting the vehicles inside.

Product Application

- The design goal was for the building's look to contrast with its surroundings while reflecting the beauty of the natural habitat.

Performance Data

- Stainless steel offers a resistance to corrosion and staining, low maintenance and a look that will not change like some metals.



www.morincorp.com
800.640.9501

SNAP 140

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

GREEN ROOF BOX

$ | GREEN | NEW

Froet Industries LLC

The Black Box is a low-cost, durable, easily adjustable green roof box designed to maintain proper drainage and maintenance throughout the life of the roof.

Product Application

- Green roof drainage
- Rooftop plazas and patios

Performance Data

- HDPE material
- Jobsite adjustable; 10,000-lb lid rating available
- Fertilizer resistant; provides proper drainage path

www.froetindustries.com
815.626.7922 | Craig J. Froeter

Booth: 1428 ASPE

SNAP 141

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ULTIMATE REDUNDANT WATERPROOFING

$$ | GREEN | NEW

Epro Services, Inc.

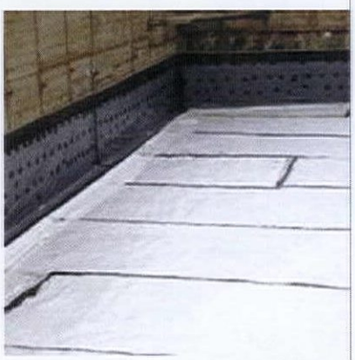
System III MBB and LWBB.

Product Application

- WLRT Station, Calgary, AB Canada
- Burton Way Apartments, Los Angeles, CA
- Tazman Apartments, San Jose, CA

Performance Data

- Monolithic composite
- Self sealing



www.eproserv.com
800.882.1896

SNAP 142

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ADJUSTABLE-HEIGHT PEDESTAL SYSTEM

Hanover Architectural Products

Made from high-density, impact-resistant polypropylene, Hanover's Elevator® Pedestal System adjusts to accommodate paver heights from 2 in. up to 24 in.

Product Application

- W Scottsdale Hotel, Scottsdale, AZ
- Georgia Technical University, Atlanta, GA
- Jacob K. Javitz Convention Center, New York, NY

Performance Data

- Meets LA City Building Codes for Seismic Stability (ASTM D-1929 and D-635)
- Meets Flame Spread Requirements (CC1)

www.hanoverpavers.com
717.637.0500

Booth: 1860 Greenbuild

SNAP 143

New Duro-Last® & EXCEPTIONAL® Metals Texas Manufacturing Plant Adds to National Footprint

Duro-Last®. Five manufacturing locations throughout North America.

Over two billion square feet installed.

A Duro-Last roof is a sure thing and so is our commitment to provide best-in-class services and products. This is why we have opened our fifth North American manufacturing facility in Carrollton, Texas providing prefabricated Duro-Last roofs and EXCEPTIONAL Metals. We make everything easier and more convenient for our customers. We stand for your success, and that makes all the difference.

Visit **duro-last.com** and **exceptionalmetals.com** to learn more.

800-248-0280

We stand for your success.

EXCEPTIONAL® Metals

DURO-LAST® THE WORLD'S BEST ROOF®

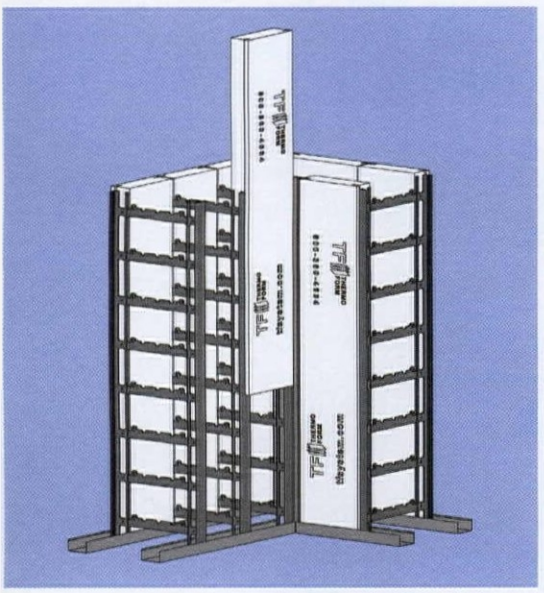
"Duro-Last", "EXCEPTIONAL" Metals, and the "World's Best Roof" are registered marks owned by Duro-Last Roofing, Inc.

FiveLocations_CI_7.10.14_3

TF Forming Systems Inc. Manufacturer of Insulated Concrete Forms

THINK OUTSIDE THE "BLOCK".....

ThermoForm – The Vertical ICF



"Thinking outside the BLOCK" is how ThermoForm was designed!

It's the original and most widely used vertical ICF. Going **VERTICAL** instead of followin the traditional horizontal method, allows the builder/installer more versatility, speed and ease of construction.

- Curved Walls? ..... NO PROBLEM!
- Tall Walls? ..... NO PROBLEM!
- Energy Efficient structure? ..... NO PROBLEM!
- Need Disaster Resistance? .... NO PROBLEM!

ThermoForm is capable of doing anything you want in the design of your building – residential or commercial.

ThermoForm Offers:

- **Design Flexibility**
  - ThermoForm components can be easily configured to achieve almost any design imaginable, including curved and arched walls
- **Green Building Materials/LEED Certification**
  - ThermoForm uses recycled materials along with locally produced concrete
- **Extreme Energy Efficiency**
  - ThermoForm walls provide a minimum of R25 and allow no air infiltration to give you unprecedented energy savings
- **Severe Weather Security**
  - Poured, reinforced concrete walls can be engineered to withstand practically any weather event including tornadoes and hurricanes
- **AND SO MUCH MORE!**

TF FORMING SYSTEMS

TF Forming Systems, Inc.
3030 Holmgren Way
Green Bay, WI 54304
Phone: 800-360-4634
Fax: 920-983-9962
E-mail: info@tfsystem.com
Website: www.tfsystem.com

Evolution™

Thermal and Moisture Protection

Thermal and Moisture Protection Roof and Wall Panels

Division 7 Thermal and Moisture Protection Specification Section 07411 - Manufactured Roof Panels

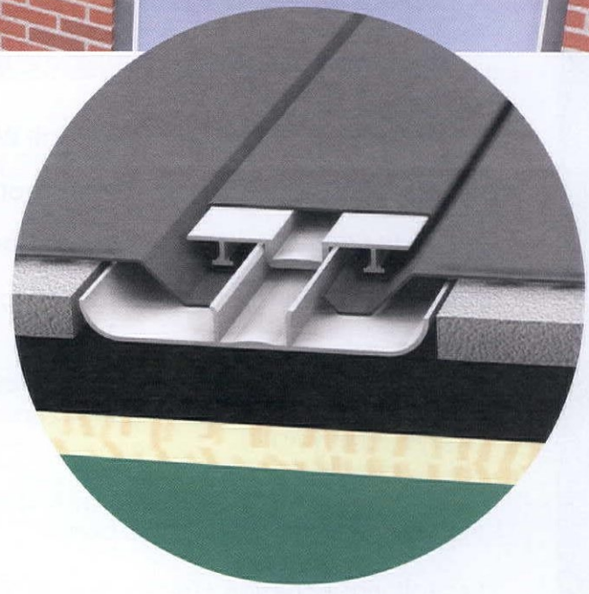
The Overly *Evolution* metal wall and roof system is without raised batten or standing seams and exposed fasteners. The system consists of a hidden drain channel, compression bar, cover cap and cladding sheets. The smooth, contemporary design appears monolithic when viewed from just a short distance. It's an 'Evolution' to all the standard metal wall and roof systems available throughout the history of the industry.

Applications

The Overly *Evolution* system can be installed on sloped roofs and vertical walls. Panels can be curved and/or tapered for barrel vaults and domes or spherical shapes. The system features hidden fasteners and an internal drainage component which removes any moisture that migrates into the system and skillfully designed joints which allow for expansion and contraction. The system is the exterior exposed component of a wall/roof composite assembly. Several composite assemblies are available ranging from thin to thick as determined by aesthetic preferences or as necessary to meet performance requirements such as thermal, structural and fire ratings.

Materials

- Aluminum Alloy 3003-H14, Standard Thickness 18 gauge (.040")–16 gauge (.050") available in painted K500 finishes, brushed and mill finishes
- Stainless Steel type 304 and type 316, 24 gauge (.024") – 20 gauge (.036") available in 2B, 2D, #4 and several custom directional and non-directional finishes
- Titanium Grade 1, gauges .018" – .024" available in standard mill or matte finishes
- Zinc, gauge .028" – .032" available in natural or pre-weathered finishes
- Recycled content varies upon material selected. 100% recyclability of all metal components



System Design Data

- Width of Compression Cover: 2.75"
- Mininum/Maximum Spacing between Compression Covers: 12" – 48"
- Maximum Length of Panels: 40'
- Compression Extrusion Thickness: .056"
- Channel Extrusion Thickness: .056"
- Test data in accordance with ASTM E 283, ASTM E 330, ASTM E 331 and UL 580 (Class 90 available upon request)

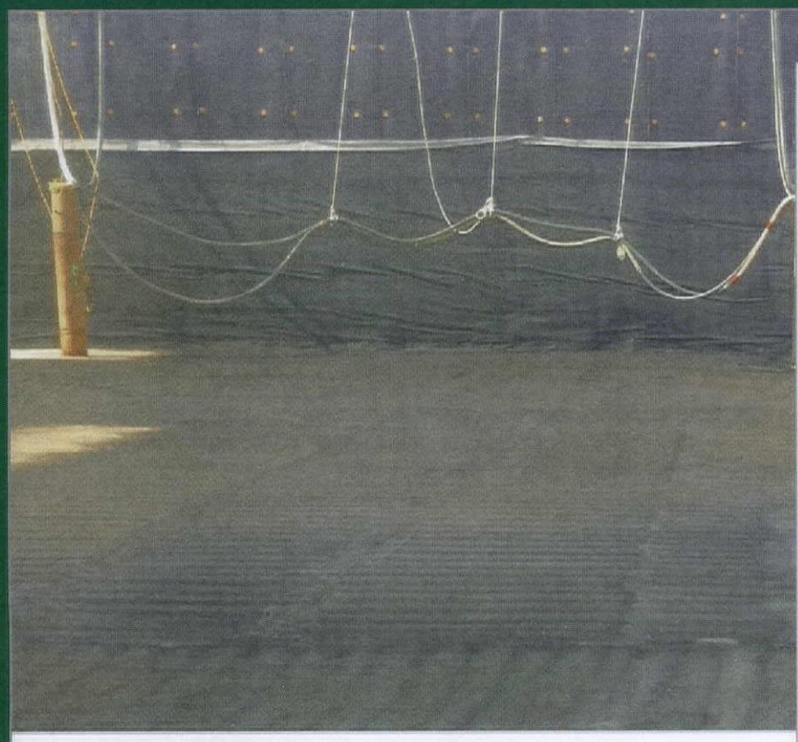
It's more than metal...*it's personal.*

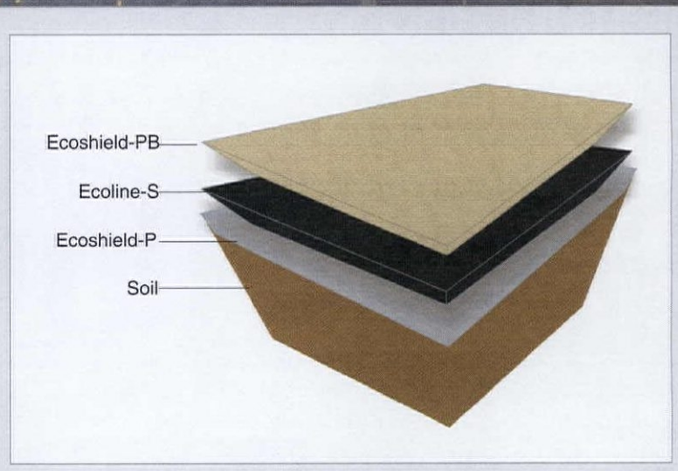
OVERLY

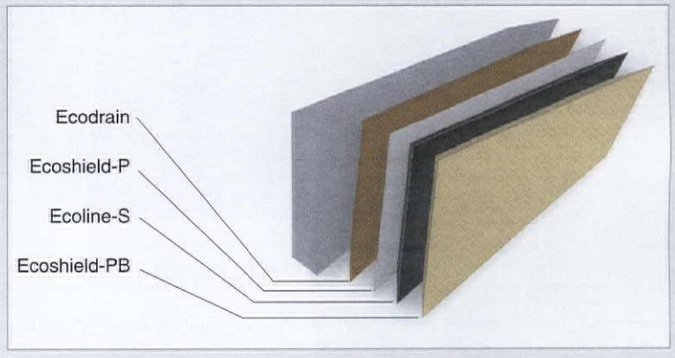
MANUFACTURING COMPANY

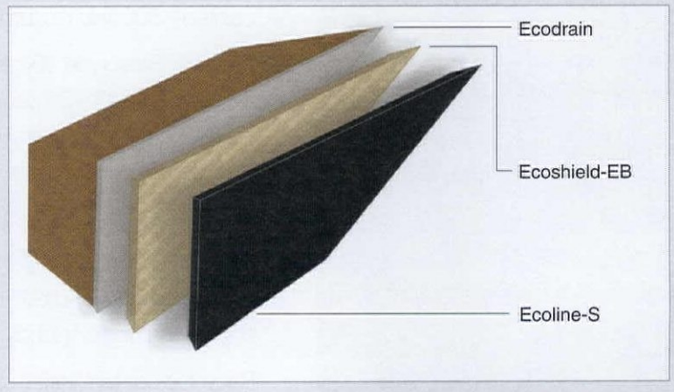
P.O. Box 70
Greensburg, PA 15601-0070 USA
Phone: (724) 834-7300
Fax: (724) 830-2877
E-mail: overly@overly.com
Website: www.overly.com

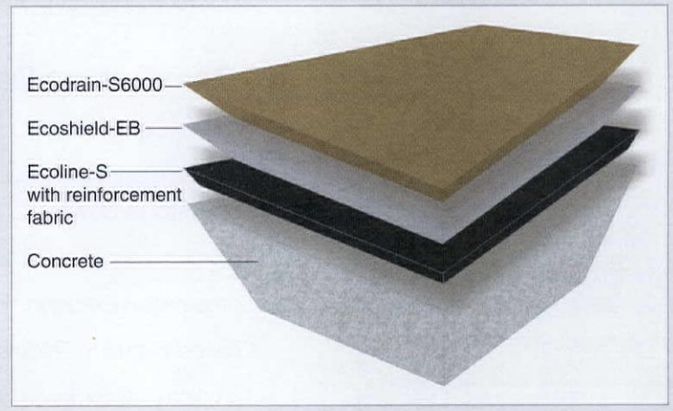
Epro's Fully Integrated Field Installed Composite Waterproofing System Provides the Most Protection, Fastest Installation, Lowest Cost and Best Warranty in the Industry Today!











Four New Field Installed Systems Available ...

- **System III CWB Concrete / CMU Wall Waterproofing**
- **System III RDB Roof / Deck Waterproofing**
- **System III MBB Waterproofing / Gas Barrier**
- **System III LWB Blindside Waterproofing / Gas Barrier**

Excellent Strength and Chemical Resistance - the result of the unique field installed composite system design utilizing HDPE.

Seamless - The highly flexible spray or fluid applied membrane forms a monolithic barrier.

Exceptional Adhesion - The sprayed or fluid applied membrane bonds tenaciously to almost any substrate in almost any condition including green concrete or a damp substrate.

Self Sealing - The bentonite layers seal at any penetration of the system.

Redundant Protection - Multiple waterproofing protection courses and drainage plane.

epro™ Waterproofing Systems

A WORLD OF DIFFERENCE FOR REAL WORLD CONDITIONS

800-882-1896 • www.eproserv.com

• *Visit us at The World Of Concrete Show, Booth #S-10948*

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	89-92
Interior Finishes, Furnishings	Pgs.	97
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104
MATERIALS	**PGS.**	**109-110**
Equipment	Pgs.	115
Mechanical Systems, HVAC, Plumbing	Pgs.	117
Landscaping, Sitework	Pgs.	121-122
Specialty Products	Pgs.	127-134

MATERIALS

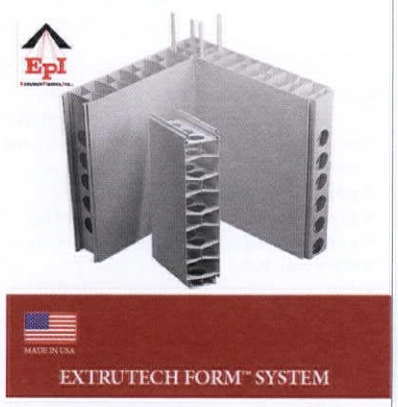
CONCRETE FORM SYSTEM

Extrutech Plastics, Inc.

Extrutech FORM System: Bright white, stay-in-place, 6-in.-thick concrete form system that provides an easy-to-clean, smooth, sanitary surface on both sides.

Product Application
- Dairy facilities
- Car washes
- Food processing

Performance Data
- Bright, smooth, easy to clean
- Non-porous, moisture-proof panels



www.epiplastics.com
888.818.0118 | Greg Sheehy

SNAP 144

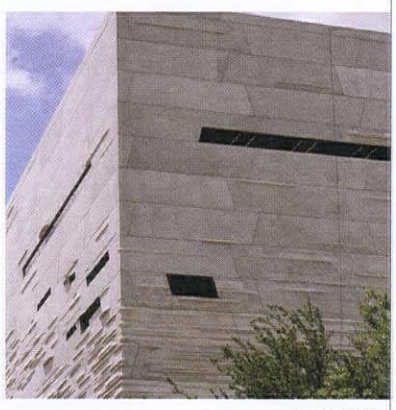
MATERIALS

MAKING BRILLIANT IDEAS CONCRETE

Holcim (US)

Holcim helps your vision come to life with reliable performance materials and a history of sustainable manufacturing practices.

Product Application
- Blended cements
- Supplementary cementitious materials
- Masonry/mortar cements



www.holcim.us
888.646.5246

SNAP 145

MATERIALS

CURTAIN WALL INSULATION

$$

Thermafiber® Inc. (an Owens Corning company)

FireSpan® 40 and 90: Thermafiber FireSpan products are designed to provide life-saving fire protection in curtain wall and perimeter fire containment systems.

Performance Data
- Fire resistant to temperatures above 2,000°F (1,093°C)
- Non-combustible
- Controls noise and sound

www.thermafiber.com
888.834.2371

SNAP 146

MATERIALS

TARTAN PATTERN GLASS BLOCK

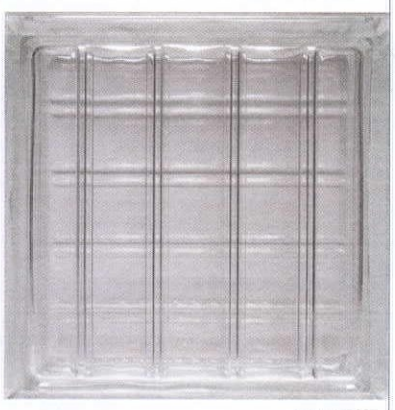
NEW | GREEN | $$

Pittsburgh Corning

The new Tartan™ pattern glass block has been re-created from a classic pattern from the 1930s. Perfect for historical renovation or new construction.

Product Application
- Hecht Warehouse, Washington, DC
- Apt bldg, 2100 Connecticut Ave, Washington, DC
- Historical renovation

Performance Data
- 45-minute fire-rated window assembly
- Sound transmission = 39
- Provides daylighting without compromising security



www.pittsburghcorning.com
800.871.9918 | Tom McDonald

SNAP 147

MATERIALS

DYNAMIC GLASS

WR | GREEN | NEW

View

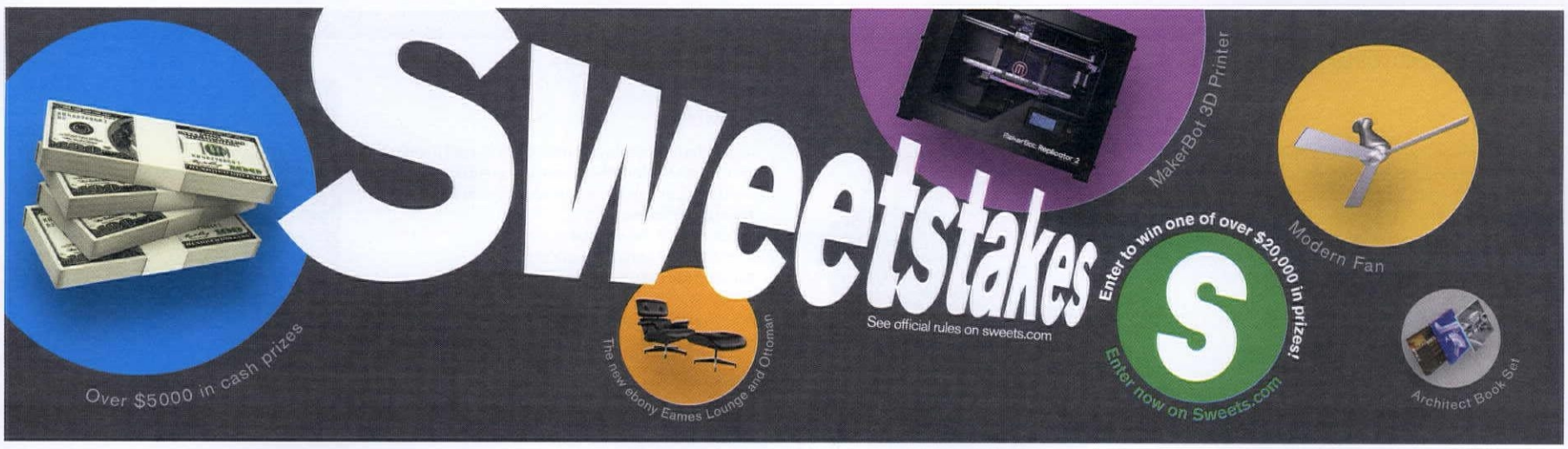
View Dynamic Glass seamlessly transitions through 4 variable tints to provide view without heat or glare.

Product Application
- Humber River Hospital, Toronto, ON, Canada
- Marine Corps Air Station, Miramar, CA
- Hilton Universal City, Los Angeles, CA

Performance Data
- Continuous views without excess heat or glare
- Increased daylight and comfort with intelligent controls and energy savings

viewglass.com
408.263.9200 | Jeff Kersten

SNAP 148



All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

MATERIALS

FIRST CHOICE FOR LASTING ACTIVITY

Texas Quarries

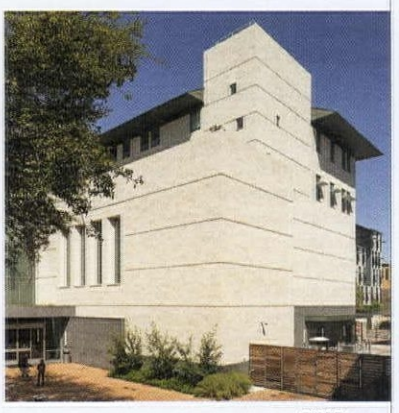
Architects shape lasting buildings with Texas Quarries-cut limestone. The highest-quality limestone in its 85-year history is now emerging from its quarries.

Product Application

- Student Activity Center, University of Texas at Austin
- Cordova Shell Limestone, one in a family of varieties

Performance Data

- Quality cut limestone, to your specifications
- LEED-accredited engineers
- Full-service support



texasquarries.com
512.258.1474

SNAP 149

MATERIALS

ZERO VOC INTERIOR LATEX PAINT

WR | GREEN

The Sherwin-Williams Company

ProMar 200 Zero VOC Interior Latex is a complete and excellent-quality professional line available in four sheens and every color.

Performance Data

- Durable, easy to apply, excellent hide, outstanding touchup
- Antimicrobial agents deter mold & mildew growth on paint surfaces

sherwin-williams.com
800.321.8194

SNAP 150

MATERIALS

DRIVABLE GRASS - PAVING SYSTEM

GREEN | WR

Soil Retention Products, Inc.

Drivable Grass® is a permeable, flexible and plantable concrete pavement system that can be used for a variety of applications from pathways to parking lots.

Product Application

- Firelane at LEGOLAND Hotel, CA
- Healing garden/firelane at Kaiser Permanente, Anaheim, CA
- Helicopter pads at Fort McCoy, WA

Performance Data

- Hydraulic performance testing: Colorado State Univ.
- Live load testing: Oceanside, CA fire station

www.soilretention.com
800.346.7995 | Danny Reynaga

SNAP 151

MATERIALS

QUALITY CLAY MASONRY UNITS

WR

Endicott Clay Products Co.

Clay masonry units.

Product Application

- TCF Stadium, Minneapolis, MN
- Charles Lakin Campus, Council Bluffs, IA
- Lucas Oil Stadium, Indianapolis, IN

Performance Data

- Meets or exceeds ASTM standards
- Backed by large BIM catalog

www.endicott.com
402.729.3315 | Gary Davis

SNAP 152

MATERIALS

VINYL FENCE & RAILING

Country Estate Fence, Deck & Railing
Nebraska Plastics, Inc.

Enhance the beauty and value of your projects with the permanence of one of their environmentally friendly, maintenance-free vinyl products.

Product Application

- Arverne by the Sea, Arverne, NY
- Orange Blossom Creek, Tampa, FL
- Harmony House Health Care Center, Brewster, WA

Performance Data

- All products conform to ASTM F964-13
- 50-year or limited lifetime warranty

www.countryestate.com
800.445.2887 | Lonnie Petersen

SNAP 153

MATERIALS

PERFECT PAVER PALETTE

$$$

Belden Clay Pavers

The Belden Brick Company offers you more options in clay pavers than anyone in the world. You can choose from the widest palette of colors, textures and sizes.

Product Application

- Carmel City Center
- Architect: Pedcor Design Group, LLC
- General contractor: Smock Fansler Corp

Performance Data

- An ISO 9001:2008 Registered Quality Management System
- An ISO 14001:2004 Environmental Management System

www.beldenbrick.com
330.456.0031

SNAP 154

MATERIALS

"JELLY BEAN" COLORED GLASS

$$

Bendheim

The contemporary bright colors of Bendheim's laminated "Jelly Bean" Glass Collection create stimulating environments with a sense of optimism and comfort.

Product Application

- Screens & partitions
- Stair railings & balustrades
- Canopies & ceilings

Performance Data

- Laminated safety glass meets building codes
- Screens out up to 99% UV rays

www.BendheimArchitectural.com
800.221.7379

SNAP 155

MATERIALS

THIN-CUT LIMESTONE

WR | GREEN

Arriscraft

Adair Marble Overlay: thin easy-to-install limestone units. Slender lengths create a dry-stack design in horizontal or vertical patterns. Avail. in Blue-Grey.

Product Application

- Commercial, residential
- Interior and exterior applications

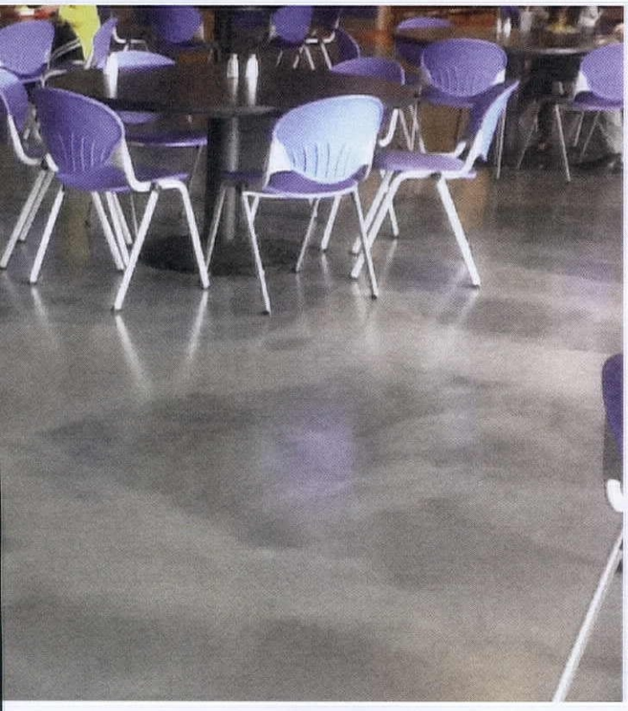
Performance Data

- Exceeds reqs of ASTM C568-03 Class III High Density
- All-weather, highly resistant
- Installs as adhered tile for indoors/outdoors

www.arriscraft.com
800.265.8123

SNAP 156

DESIGN A FLOOR THAT GIVES YOUR CLIENTS MORE



See us at Booth #423
Oct 1 - 3

FORT WORTH CONCRETE DECOR SHOW TEXAS 2014

See us at Booth #327
Oct 6 - 8

DESIGN-BUILD 2014 CONFERENCE & EXPO DALLAS, TX

Savings • Durability • Design Options

ur-A-Flex® seamless flooring and wall systems offer reduced maintenance costs and durability for a longer lasting option.

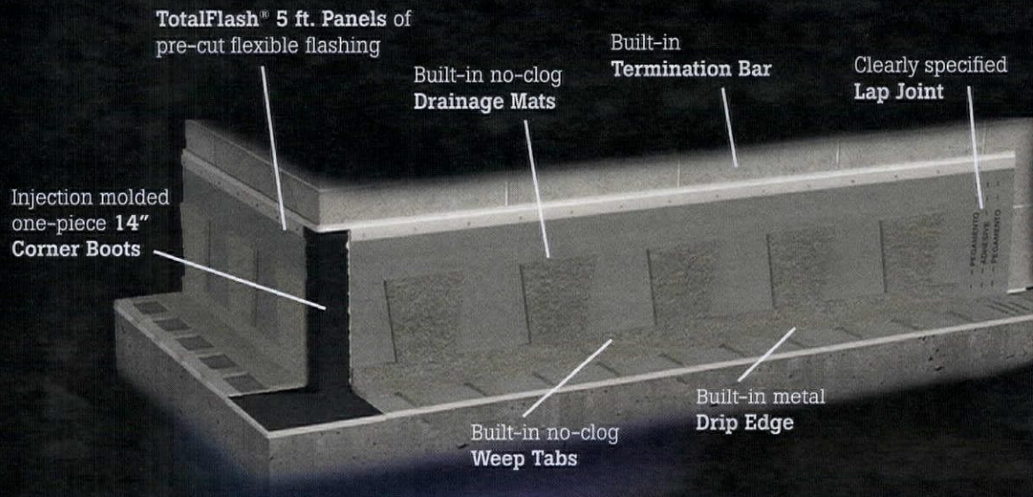
860-528-9838 • www.dur-a-flex.com

DUR-A-FLEX®
INNOVATION FROM THE FLOOR UP

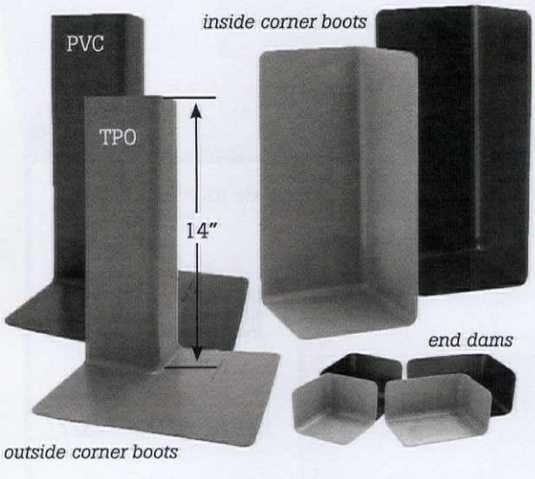
This is designed to be *DRY.*

These are designed to be *WET.*

TotalFlash®



TotalFlash keeps your masonry cavity walls dry - the way they're designed to be



CompleteFlash - the Industry-First 14" High Corner Boots, only from Mortar Net Solutions

The only corner boots that extend above standard flashing

- One-piece, injection molded
- Highly puncture resistant to prevent leaks
- Available in gray TPO or black PVC stabilized with Elvaloy® KEE

Inside and outside corner boots, right, left and universal end dams available.

Sealants for every flashing system

MPE-1 Modified Polyether

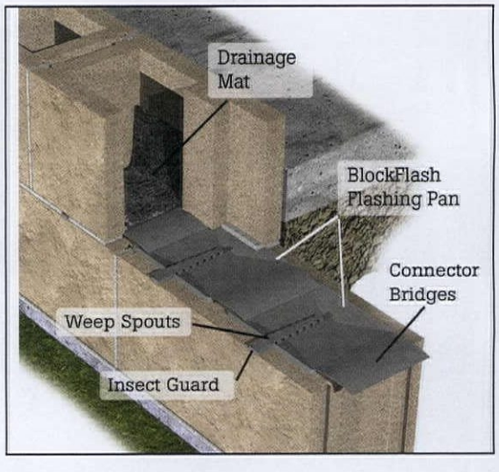
- High performance, general purpose sealant
- Single component moisture cure
- Permanently elastic
- Gunnable at low temperatures
- Lowest VOC sealant available

BTL-1 Butyl

- Excellent bond with common masonry construction materials, including TPO
- Single component moisture cure
- Permanently elastic and tacky
- Not for vertical joints

Mortar Net SOLUTIONS

326 Melton Road
Burns Harbor, Indiana 46304
Phone: 800.664.6638
Fax: 219.787.5088



BlockFlash® – The Only Embeddable Flashing Solution For Single-Wythe CMU Walls

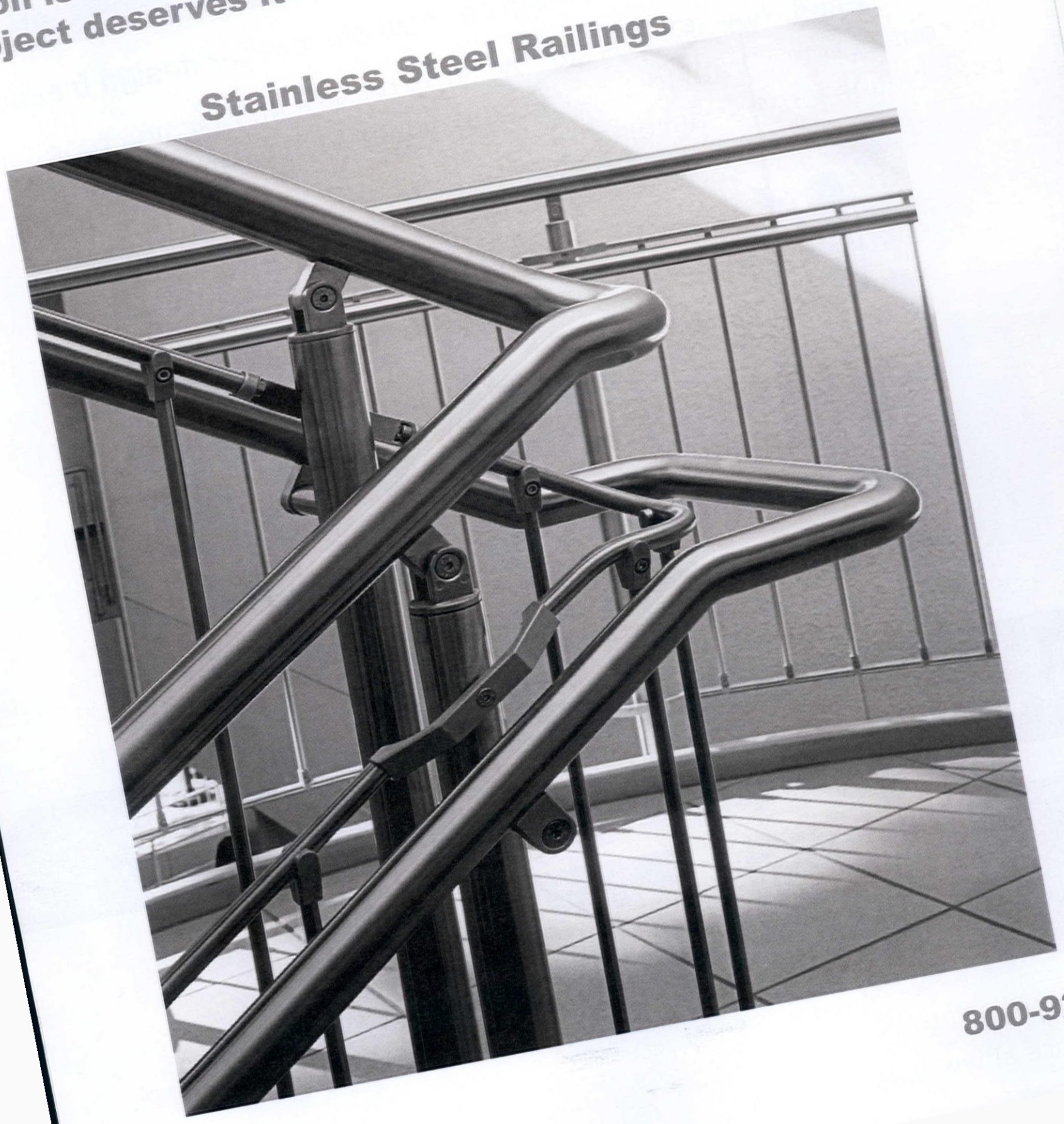
- Sloped pans with integrated weep spouts collect and channel moisture out of the wall
- Up to 50% faster installation than through-wall flashing
- Included drainage mesh prevents mortar damming
- 10X stronger block bond than through-wall flashing
- Snap-off connector bridge for easy installation at grouted cells and corners
- Integrated insect guards keep bugs out

OUR VALUES:
Precision, Innovation, Flexibility

Perfection is our top objective...
your project deserves it

ARTEC

Stainless Steel Railings



800-927-7346

rtec-rail.com

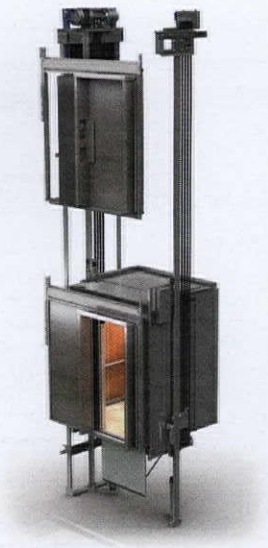
SNAP 288

No machine room. No control room. All you need is a hoistway.

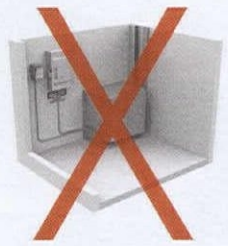
What will you do with the extra room?

Otis is proud to introduce two great new choices for design freedom.

The Gen2 and HydroFit elevator systems require no machine room and no control room. With this extra room, you now have an array of new possibilities for your building.



GeN2®



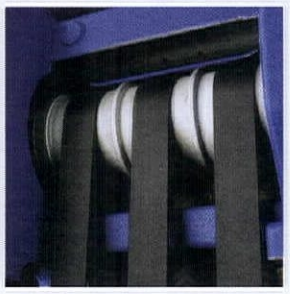
No machine room
No control room

HydroFit™

Both Gen2 and HydroFit are produced in Otis' new Florence, SC facility. These innovative products offer the following benefits:

Design Freedom

Green Technology



Smoothest Ride

Proven Reliability

Learn more at www.us.otis.com

OTIS
United Technologies

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	89-92
Interior Finishes, Furnishings	Pgs.	97
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104
Materials	Pgs.	109-110
EQUIPMENT	**PGS.**	**115**
Mechanical Systems, HVAC, Plumbing	Pgs.	117
Landscaping, Sitework	Pgs.	121-122
Specialty Products	Pgs.	127-134

EQUIPMENT

COMFORTABLE FORWARD-FACING DESCENDS

Lapeyre Stair

Lapeyre® Alternating Tread Stairs feature a unique tread design which provides greater tread depth than vertical ladders or ship's ladders.

Product Application
- Mezzanine access
- Equipment access
- Catwalks

Performance Data
- Safe, innovative space-saving solution
- Greater tread depth than ship and vertical ladders

www.lapeyrestair.com
800.531.7631 | Customer Service

SNAP 157

EQUIPMENT

MACHINE-ROOMLESS HYDRAULIC ELEVATOR

$$

Otis Elevator Company

Otis offers the HydroFit™, a machine-roomless, holeless hydraulic elevator that gives architects true design freedom in low-rise structures.

Product Application
- Low-rise buildings up to 26 ft 6 in.
- Design freedom: no machine room required
- Save construction time and cost

Performance Data
- Energy-efficient LED lighting and sleep mode
- Industry-renowned proven reliability and uptime

HydroFit™

OTIS
United Technologies

www.otis.com
843.432.4220 | Mary Ryan

Booth: 1639 Greenbuild

SNAP 158

EQUIPMENT

PATIENT LIFTS

Guldmann Inc.

Move, reposition or transfer patients up to 1,100 lb effortlessly. Safe for hospital installation in patient rooms, ER, ICU, CT Scan.

Product Application
- Lift 770 lb to 1,100 lb
- X-Y Room covering rail reaches 4 corners of room
- Continuous charge, no waiting

Performance Data
- 30 years of quality, reliability and commitment, UL Approved
- 12-year life span, optional built-in weigh scale/service/CLM

www.guldmann.net
800.664.8834

SNAP 159

EQUIPMENT

INNOVATIVE DISHWASHER

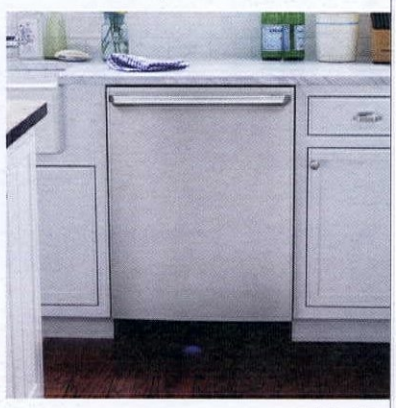
NEW

Electrolux

Introducing the new Electrolux dishwasher with SatelliteSpray™ Arm – an innovative rotating wash zone that gives you 400% more water coverage.

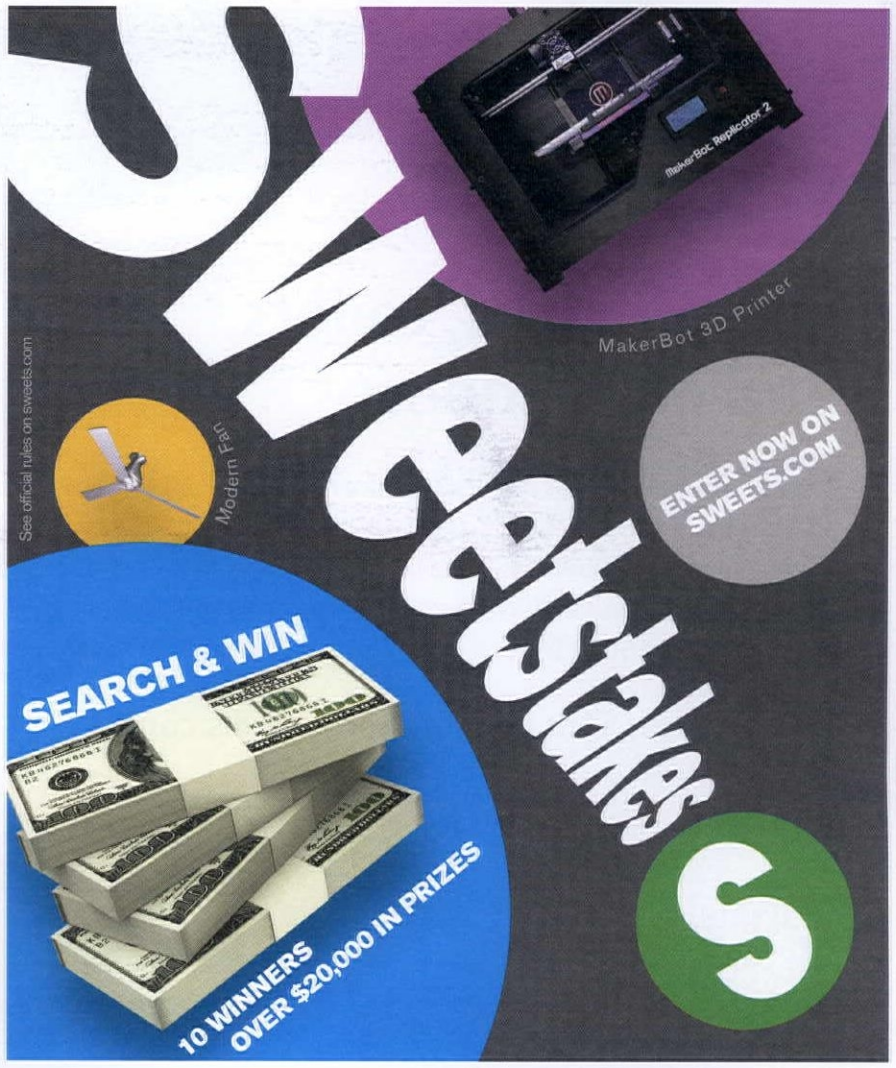
Product Application
- EI24ID50QS

Performance Data
- 30-minute fast wash cycle, target wash zones
- Third-level rack
- Luxury soft grip racks and perfect stemware grips



ElectroluxBuilder.com
888.735.4920

SNAP 160



All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

Make a Clean Getaway

5610K1 Kit

Sinks, dryers, toilets, and now...doors

The age of the touchless public restroom has arrived. Now visitors can have a totally hands-off experience, thanks to the Norton 5600 Series Low Energy Power Operator. This easy to install and adjust option is operated by the Norton wave to open wall switch. Wave goodbye to germs and say hello to cleanliness with the Norton 5600 Series.

To learn how, visit nortondoorcontrols.com

Scan this Microsoft® Tag using your mobile phone. Download the free mobile app at http://gettag.mobi

ASSA ABLOY, the global leader in door opening solutions

Norton®
ASSA ABLOY

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	89-92
Interior Finishes, Furnishings	Pgs.	97
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104
Materials	Pgs.	109-110
Equipment	Pgs.	115
MECHANICAL SYSTEMS, HVAC, PLUMBING	PGS.	117
Landscaping, Sitework	Pgs.	121-122
Specialty Products	Pgs.	127-134

MECHANICAL SYSTEMS, HVAC, PLUMBING

HANDS-FREE LAVATORY SINK PACKAGE

$$ | GREEN | NEW

Just Manufacturing

Commercial-grade stainless steel ADA-compliant "hands-free" public lavatory sink packages. Includes sensor faucet, soap dispenser, hand dryer and grab bar.

Product Application
- Ideal for heavy/light commercial applications
- Intended for public lavatory areas
- ADA-compliant sinks, "hands-free" accessories

Performance Data
- 18-gauge, type 304 stainless steel
- Size and depth meet stringent standards

www.justmfg.com
847.678.5150 | Customer Service

SNAP 161

MECHANICAL SYSTEMS, HVAC, PLUMBING

WICKED COOL PIPE INSULATION

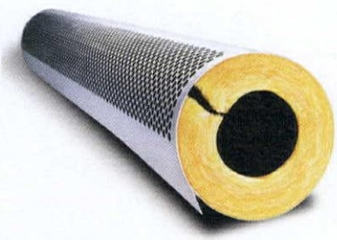
GREEN

Owens Corning

VaporWick® Pipe Insulation is an innovative insulation product designed specifically for below-ambient temperature applications in humid operating environments.

Product Application
- Engineered for insulation of cold piping
- Engineered for dual-temperature piping
- Operating from 32°F to 220°F

Performance Data
- Self-drying feature allows installation on wet pipes
- Excellent thermal value



www.OCBuildingSpec.com
800.438.7465

SNAP 162

MECHANICAL SYSTEMS, HVAC, PLUMBING

LOW-COST COOLING FOR GREENER FUTURE

CALMAC

CALMAC's energy storage is an air-conditioning solution that uses less expensive, night-time energy such as wind and can kick on when the sun isn't shining.

Product Application
- Works with standard chiller plant
- New or retrofit
- Office, school, gov't/military, medical, arena, retail
- LEED EA and DR credits

Performance Data
- Lowers cooling costs 40-50%
- Reduces source energy 8-34%
- Reduces peak (kW) demand charges

www.Calmac.com
201.797.1511

SNAP 163

MECHANICAL SYSTEMS, HVAC, PLUMBING

ROOF PENETRATION SYSTEM

Alta Products, LLC
Manufacturer of Pipe Chase Housing

Pipe Chase Housing, Exit Seals and SMART KD Pipe Chase Housing provide a weather-tight pathway for multiple roof penetrations—perfect for split systems.

Product Application
- The single best method for consolidating multiple split system roof penetrations into one weather-tight roof penetration pathway

www.AltaProductsLLC.com
206.409.1237 | John Applegate

SNAP 164

MECHANICAL SYSTEMS, HVAC, PLUMBING

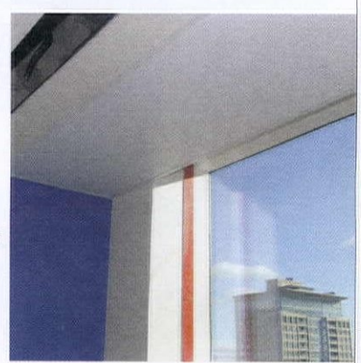
ALUMINUM RADIANT CEILING PANELS

Aero Tech Manufacturing

Aluminum Extrusion (AXO) ceiling panels are constructed of 5, 6, 8 or 9-in.-wide extruded aluminum strips of approximately 100-in. overall thickness.

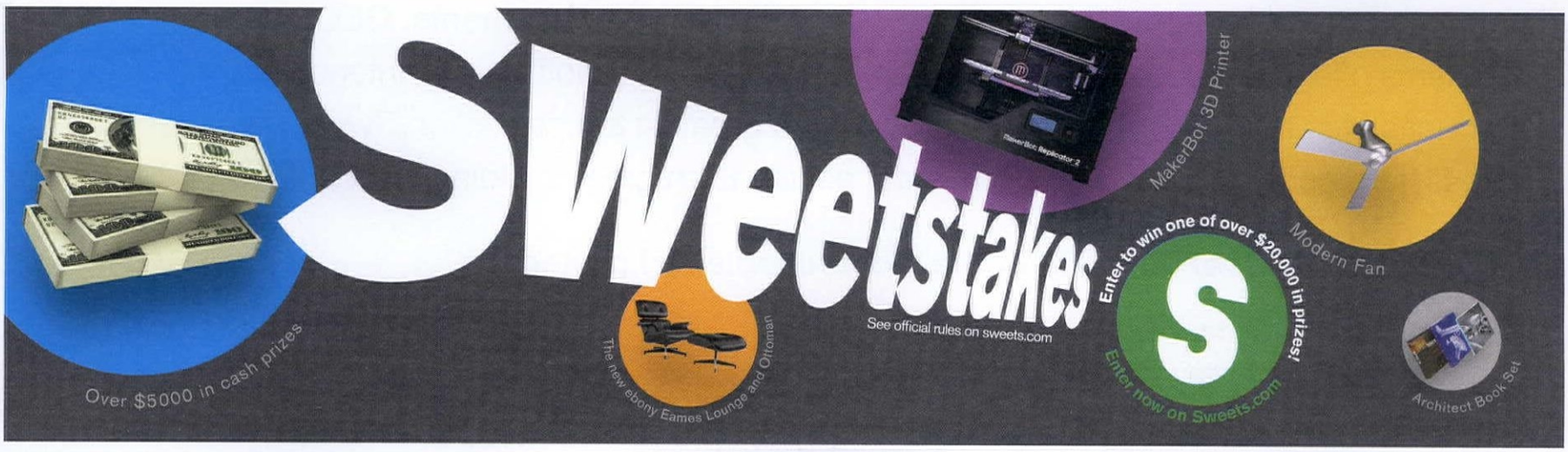
Product Application
- Ideally suited to situations where field modification of the panels is likely

Performance Data
- Factory assembled, can be finished in a large variety of standard or custom ways including curving panels along the length



www.aerotechmfg.com
801.292.0493

SNAP 165



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G = Product marketed as green | **NEW** = Released in the past 12 months

Rigid Turf Pavers

STIFF Competition to Rolled Products

GEOBLOCK®

H20 Loading, H_20 Friendly.

Enhance your landscape design with eco-friendly porous pavements. GEOBLOCK® pavements offer a green solution for managing stormwater runoff. Strong interlocking paver units offer unparalleled load distribution and greatest turf protection. Two styles address frequency, loading, and stormwater needs. Earn green building credits.

GEOBLOCK®— Over 30 years of the most reliable turf protection

Emergency/Utility Access Lanes • Auxiliary Parking
Golf Cart Pathways • Trails/Greenways

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GLOBAL LEADER • GLOBAL PARTNER

AP-7301 R1

Presto Geosystems® • 800-548-3424 or **920-738-1328 • www.prestogeo.com**

SNAP 285

THINK OF THEM AS GUARDIANS OF YOUR PARK. AND YOUR VISION.

Take a step outside and you're bound to see one of our products hard at work. We offer decorative bollards that are functional and versatile. Our tree grates come in over 100 styles. Even our detectable warning plates and downspouts are designed to blend in seamlessly and last for decades. We've been making these products in the USA and delivering excellent customer service for over 140 years. If you call us today, we'd be happy to walk you through our product lineup and help add some beauty to your next beautification project.

Let's get to work. Visit **neenahfoundry.com** or call **800-558-5075**.

NEENAH FOUNDRY

MADE IN AMERICA

SNAP 70

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landscape structures®

Mayor Thomas M. Menino Park
Boston, Mass.

Better playgrounds. Better world.® Learn more at playlsi.com, or call 888.438.6574 or 763.972.5200.

©2014 Landscape Structures Inc

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	89-92
Interior Finishes, Furnishings	Pgs.	97
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104
Materials	Pgs.	109-110
Equipment	Pgs.	115
Mechanical Systems, HVAC, Plumbing	Pgs.	117
LANDSCAPING, SITEWORK	**PGS.**	**121-122**
Specialty Products	Pgs.	127-134

LANDSCAPING, SITEWORK

AMPHITHEATERS

$$

ICON Shelter Systems Inc.

The design and engineering team at ICON can custom design an amphitheater or band shell to meet your design requirements.

Product Application
- Colby Park, Windsor Heights, IA
- Wilson Park Farms, Berwyn, PA
- Cumberland Park, West Lafayette, IN

Performance Data
- Structural steel e-coated and powder coated to between 8-12 mils thick; custom designed to local building codes throughout the US

www.iconshelters.com
800.748.0985 | Skip Stern

SNAP 166

LANDSCAPING, SITEWORK

CAST IRON TREE GRATES

GREEN

EJ

Tree grates manufactured by EJ are durable, functional and architecturally appealing. Designs available with expandable tree openings to allow for tree growth.

Product Application
- Streetscape project: Ghirardelli Square, San Francisco, California
- Streetscape redevelopment: Atlantic Station, Atlanta, Georgia

Performance Data
- ADA compliant
- 85% recycled content, Made in the USA

www.treegrate.com
800.887.8440 | Jessica Spencer

Booth: 1203 ASLA

SNAP 167

LANDSCAPING, SITEWORK

CUSTOM PLANTERS

WR

Planters Unlimited

Planters Unlimited manufactures artificial wall panels, hedges, topiaries, shrubs and trees. Can pre-populate any of their custom planters made to your spec.

Product Application
- Hilton Miami Downtown, Miami, FL
- Hyatt Regency, Tulsa, OK
- Marriott Irvine, Irvine, CA

Performance Data
- Commercial-grade materials to withstand indoor or outdoor environments
- Manufactured to meet your specifications

www.PlantersUnlimited.com
877.613.1449

SNAP 168

LANDSCAPING, SITEWORK

GRASS PAVEMENT

WR | GREEN

Invisible Structures

Grass flexible plastic porous pavement.

Product Application
- Fire lanes
- Overflow parking lots
- Access roads

Performance Data
- 5,721 psi compressive strength
- 100% grass coverage

www.invisiblestructures.com
800.233.1510 | Dustin Glist

SNAP 169

LANDSCAPING, SITEWORK

A GATE CLOSER & HINGE, ALL-IN-ONE

$$ | NEW

D&D Technodogies

SureClose replaces conventional gate hinges, closers, header arrangements, providing greater strength & performance, with installed cost below current options.

Product Application
- Vista Hermosa Park Aquatic Center, San Clemente, CA
- Hillsboro County School District, Tampa, FL
- Pelican Inn, Muir Beach, CA

Performance Data
- Self-closing gates up to 260 lb
- Steel or aluminum, fastened or welded

www.ddtechglobal.com
800.716.0888

SNAP 170

LANDSCAPING, SITEWORK

SHELTERS WITH A VIEW

$$$ | NEW

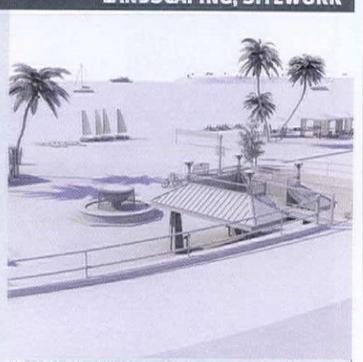
ICON Shelter Systems Inc.

VQ20M with circular stairs to upper level

ICON continues to innovate with the introduction of its new Vista Series™ shelters. This offering of a dramatic two-level shelter is the first of its kind. The VQ20M-P8 model shown at left with circular stair was exhibited at the 2013 NRPA in Houston, and has been sold to the city of Grapevine, TX. Squares, hexagons, octagons, rectangular hips and rectangular gables are available in a variety of sizes, roof slopes and stair options. For accessibility, the shelter can be built into the side of a berm and connected to a rising walkway with a catwalk, as shown in the illustration at right.

Product Application
- NRPA Expo 2013, Houston, TX
- Grapevine, TX

Performance Data
- Available with site-built ADA accessible ramp
- Straight-run, U-shaped or circular stairs
- LED lights w/ optional solar power kits
- 2nd-level galvanized grate or substrate w/ site-poured concrete



VQ20M with elevated catwalk to upper level

www.iconshelters.com
800.748.0985 | Richard Lubbers

SNAP 209

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G = Product marketed as green | **NEW** = Released in the past 12 months

LANDSCAPING, SITEWORK

GROUND SCREENING SYSTEMS

$$ | GREEN

ToughGate™, a product of CityScapes Inc.

ToughGate™ uses professional-grade aluminum frames with attractive, long-lasting infill. The gates are designed to fit new and existing enclosures or openings.

Product Application

- New construction installations
- Renovations
- Replacement of worn or outdated gates

Performance Data

- No-maintenance infill options
- 11 standard styles; custom designs available
- Meets US city codes

www.covrit.com
877.727.3367 | Paul Falkenbach

SNAP 171

LANDSCAPING, SITEWORK

BOLLARDS

Neenah Foundry

Ensure pedestrian safety with stylish bollards from Neenah Foundry. They're aesthetically pleasing and easy to install.

Product Application

- Provide safe and effective separation of pedestrian and vehicle traffic
- Designed for pre-existing or new bollard installations

Performance Data

- 71 configurations to choose from
- Bollards can be painted in a wide range of colors

nfco.com
800.558.5075

SNAP 172

Who knew a retention pond could have such a pretty face

With a BMP installation, you can have a traditional clay paver hardscape and storm water storage too. StormPave permeable clay pavers have been independently tested to have an infiltration rate of 720 inches per hour. From the base storage, storm water can dissipate back into the soil or be routed to underground tanks to be used for landscape irrigation. Either way, you don't have to give up valuable real estate for a retention pond.

pathwaycafe.com
americaspremierpaver.com
800.334.8689

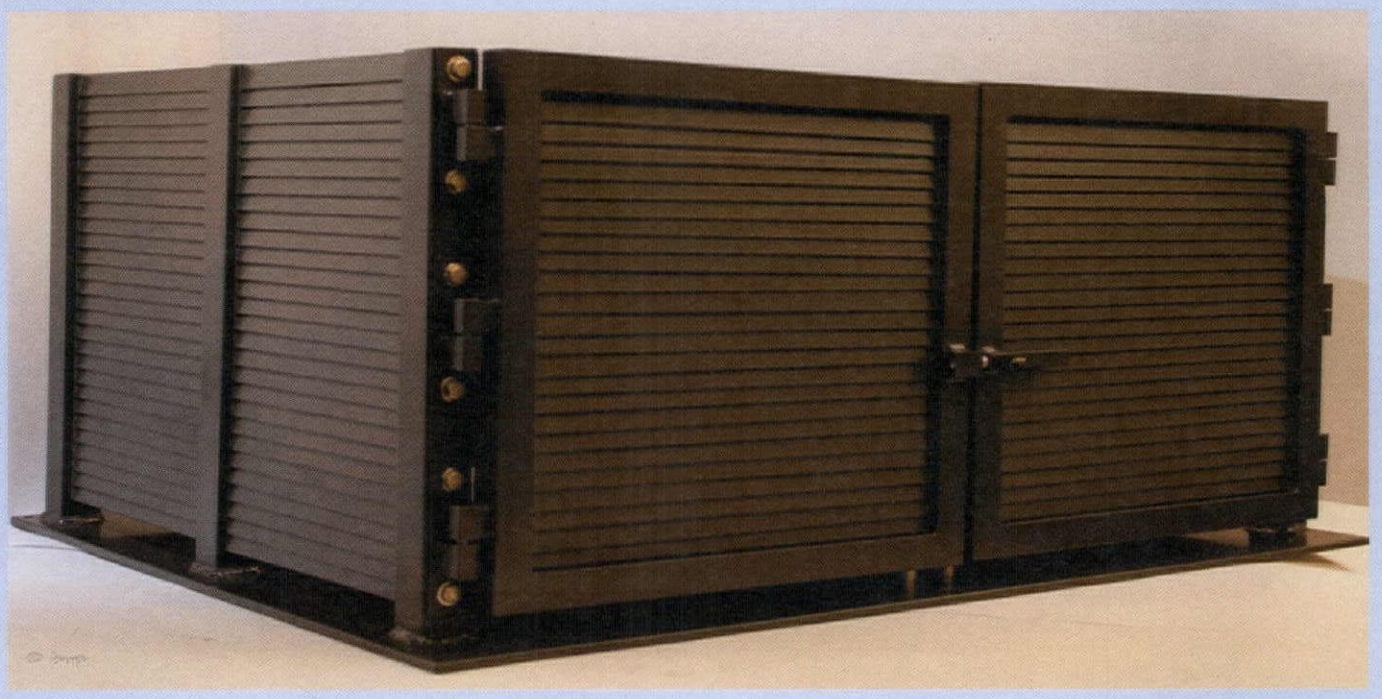
SNAP 87

CLAY GENUINE PAVERS

AMETCO
MANUFACTURING CORPORATION

STOCK TRASH ENCLOSURES

Ametco's Shadow 100 Design trash enclosures which are now in stock come in a number of different sizes starting at 8 foot x 8 foot x 7 feet high can be shipped within one week. The width and depth of the enclosure can vary on 4 foot increments and include 8, 12, or 16 foot double swing gates with posts, hinges, cane bolt and slide bolts. The enclosure can be 1, 2, 3 or 4 sided. All enclosures are hot dipped galvanized steel with a polyester powder coating. The enclosures are stocked in bronze mat and silver. Custom size and color can be fabricated to meet your requirement in 8-10 weeks.



Visit Ametco's web site at www.ametco.com

Ametco

4326 Hamann Parkway
P.O. Box 1210
Willoughby, Ohio 44096
Web Site www.ametco.com

Phone (440) 951-4300
Fax (440) 951-2542
Toll Free 800-362-1360
E-Mail ametco@ametco.com

Pick Your Own.

Or Let Us Grow A New Variety For You.

Many people call themselves custom booth manufacturers and occasionally they o produce a special booth or two. However when it comes to constant day-in day-out, year-after-year production of custom designed booths, no one can touch the experience, depth and quality of B.I.G. Call or email today for your copy of the B.I.G. Catalog of 314 booths.

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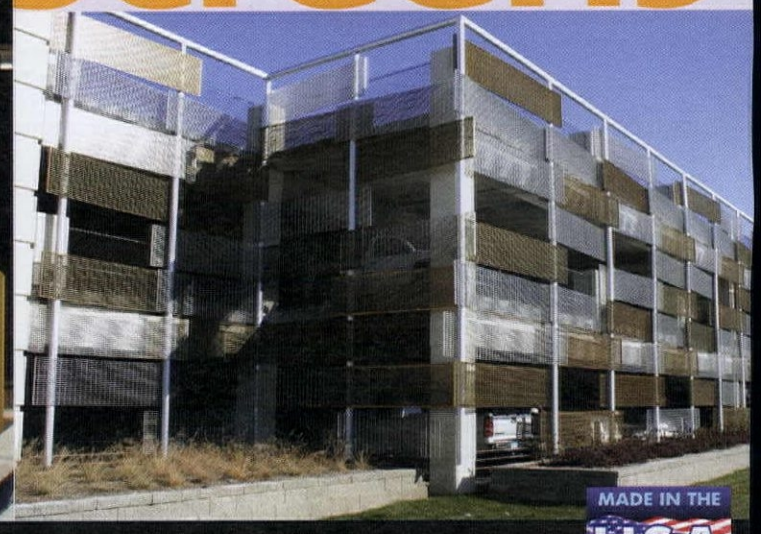
OGi Metal Grilles & Screens are the solution to many of your architectural needs

All Photos:
Maplewood Mall Transit Center
Maplewood, MN

Product Features

- Manufactured from aluminum *(shown here)*
- Also available in carbon or stainless steel
- Aesthetically appealing while providing enhanced security
- Offers ventilation with open air designs
- Multiple styles and designs available
- Various finishes available
  - Anodized *(bright brass & bright clear shown here)*
  - Powder coat, galvanized, liquid PVDF, electropolished
- Made in the USA

grilles & screens



MADE IN THE USA

OGi Architectural Metal Solutions
an Ohio Gratings Company

5299 Southway Street SW ☐ Canton, OH 44706 ☐ www.ohiogratings.com
1-800-321-9800 ☐ Fax 330-477-7872

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	89-92
Interior Finishes, Furnishings	Pgs.	97
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104
Materials	Pgs.	109-110
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Landscaping, Sitework	Pgs.	121-122
SPECIALTY PRODUCTS	**PGS.**	**127-134**

SPECIALTY PRODUCTS

ACOUSTICAL CUSTOM GRAPHICS PANELS

NEW | $$

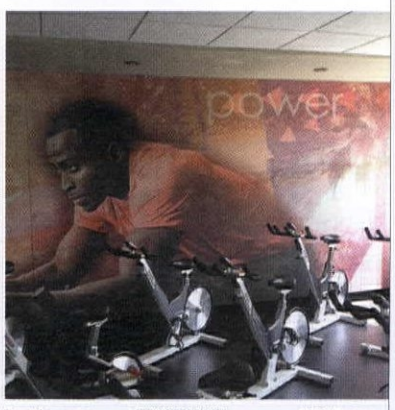
Kinetics Noise Control

AcoustiGraphix is a design option for Kinetics acoustical panels. Custom-sized panels are printed with customer-supplied images for visual impact and acoustics.

Product Application
- LA Fitness Center, Pittsburgh, PA
- University of Cincinnati gymnasium, OH
- Tonawanda High School, NY

Performance Data
- Maximum size per panel, 48 in. x 120 in.
- Align panels for larger images
- NRC (Noise Reduction) from .80 to 1.10

www.kineticsnoise.com/interiors
800.959.1229 | Interiors Division



Booth: 1024 CONSTRUCT **SNAP 173**

SPECIALTY PRODUCTS

FIXED-ACCESS, SHIP & CAGE LADDERS

WR | GREEN

O'Keeffe's Aluminum Ladders

Manufacturing quality USA building products with fast lead times and competitive pricing for over 75 years.

Performance Data
- Lightweight and high-strength 6063-T aluminum construction with 1-1/4-in. deeply serrated rungs
- Maintenance free
- OSHA & ANSI

www.okeeffes.com
888.653.3333 | Diana San Diego

SNAP 174

SPECIALTY PRODUCTS

STAINLESS STEEL RAILINGS

GREEN | WR

P+P Artec, Inc.

P+P Artec has over 20 years of experience fabricating and installing seamless stainless steel railings. They deliver perfection; your project deserves it.

Product Application
- New construction and renovation projects: commercial, industrial, municipal, retail, entertainment, residential

Performance Data
- Available on their website: BIM, REVIT, product statements and specifications
- All systems meet or exceed ADA and IBC standards

artec-rail.com
800.927.7346

SNAP 175

SPECIALTY PRODUCTS

POLYURETHANE MILLWORK

$$ | GREEN

Spectis Moulders, Inc.

Spectis Moulders specializes in manufacturing high-quality polyurethane architectural products. They offer 6,000 SKUs as well as custom manufacturing.

Product Application
- Residential or commercial
- Interior and exterior
- Structural and decorative

Performance Data
- Fire rating options
- Guard rail rating

www.spectis.com
800.685.9981

SNAP 176

SPECIALTY PRODUCTS

ENHANCED SOFT-CLOSE SLIDE

$$ | NEW

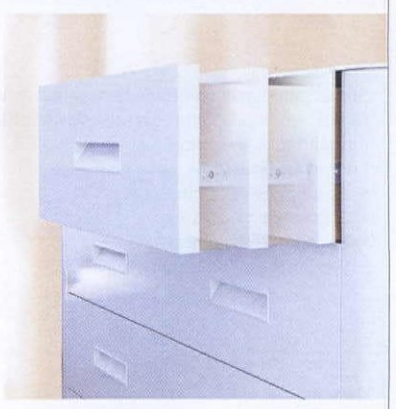
Accuride International

The enhanced 3832EC provides flawless movement, reliable performance and features to speed installation. The Easy-Close action helps prevent slamming.

Product Application
- School and laboratory casework
- Medical or commercial casework
- Residential cabinetry or casework

Performance Data
- 100-lb load capacity
- Lengths 14 in. to 28 in.; zinc or black finish

www.accuride.com
562.903.0200 | Claudia Tuttle



SNAP 177

SPECIALTY PRODUCTS

CUSTOM SKYLIGHT SYSTEMS

Super Sky Products Enterprises, LLC

Aluminum framed skylight systems designed to add and enhance natural daylighting. Financially sound business with over 11,000 projects completed worldwide.

Product Application
- Glass, hurricane/impact rated, blast compliant
- Point supported, photovoltaic, polycarbonate systems
- Repair/renovation

Performance Data
- Miami-Dade County approved
- LEED point contribution

www.supersky.com
262.242.2000 | supersky@supersky.com

SNAP 178

SPECIALTY PRODUCTS

LIGHTNING PROTECTION SYSTEMS

WR | GREEN

East Coast Lightning Equipment, Inc.

Lightning protection systems protect buildings and electronic components from lightning damage.

Product Application
- Commercial, residential, industrial and government applications

Performance Data
- UL Master Label certification
- NFPA 780 standard compliance
- Complete line of UL-listed system components, manufactured in the USA

www.ecle.biz
860.379.9072 | Jennifer Morgan

SNAP 179

SPECIALTY PRODUCTS

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SPECIALTY PRODUCTS

FOLDING STAIRWAY

$$

Precision Ladders, LLC

Automatic Super Simplex Folding Stairway opens and unfolds at the press of a button. Stair can be operated from above or below for ceiling heights up to 16 ft.

Product Application

- University of Memphis Clock Tower, Memphis, TN
- I-78 Toll Plaza, Blackwood, NJ
- Fort Saskatchewan Hospital, Edmonton, Alberta

Performance Data

- 500-lb load rating with actual shear of rivets tested to 1,175 lb; steel frame, extruded aluminum treads

www.precisionladders.com
800.225.7814 | Steve Fugate

SNAP 180

SPECIALTY PRODUCTS

56 STC OPERABLE PARTITIONS

Hufcor Inc.

Hufcor's expanded line of 600 Series operable partitions achieves 56 STC for projects that require ultra-acoustical performance.

Product Application

- Used to create a visual and acoustic separation within rooms
- Custom designed to fit any space

Performance Data

- 56 STC achieved in an NVLAP-accredited sound lab

www.hufcor.com
800.356.6968 | info@hufcor.com

Booth: 1128 CONSTRUCT

SNAP 181

SPECIALTY PRODUCTS

TOILET PARTITIONS

$$ | GREEN | NEW

Special-Lite, Inc.

Special-Lite® Toilet Partitions, fabricated from FRP for strength & corrosion resistance, are ideal for restrooms expected to endure heavy use & willful abuse.

Product Application

- Schools, stadiums
- Parks, rest areas
- Retail facilities

Performance Data

- Sealed FRP panels are lightweight yet durable
- Anodized aluminum edges and pilaster shoes resist corrosion

www.special-lite.com
800.821.6531 | info@special-lite.com

SNAP 182

SPECIALTY PRODUCTS

ENGINEERED FLOOD VENTS

$ | GREEN | NEW

Flood Solutions, LLC

Heavy-duty aluminum construction at a reasonable cost. 124 to 362 sq ft of engineered coverage.

Product Application

- Model F: retrofit or new construction (CMU, brick, concrete, wood or doors)
- Model D: new construction (CMU or poured concrete)

Performance Data

- Heavy-duty aluminum construction
- Will not rust or rot
- Standard with heavy-duty rodent screen and insect screen

www.floodsolutions.com
800.325.9775 | info@floodsolutions.com

SNAP 183

SPECIALTY PRODUCTS

SIGNS, PIPE MARKERS & VALVE TAGS

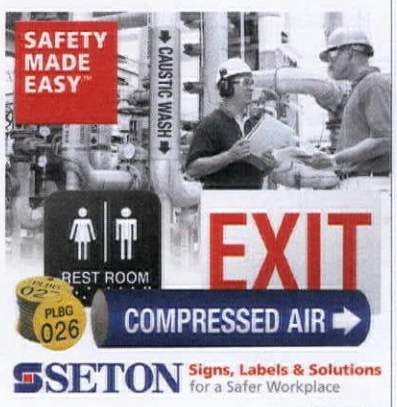
$ | NEW

Seton

Signs, labels and solutions for a safer workplace. Over 115,000 products to mark and identify facilities both indoors and out.

Product Application

- Pipe markers and valve tags
- Office signs and displays
- Exit and evacuation signs
- Serving the industry since 1956



www.seton.com
203.483.4904 | Rebecca Gounaris

SNAP 184

SPECIALTY PRODUCTS

ICC-CERTIFIED FLOOD VENTS

WR | GREEN | NEW

Smart Vent Products, Inc.

These FEMA-accepted Engineered Flood Vents offer solutions for both residential and commercial applications.

Product Application

- HSW Floodproofing courses/CAD files avail. in Arch. Record and sweets.com

Performance Data

- Dual-function, insulated models
- 3-in. debris clearance
- Made in USA from 316 SS

www.smartvent.com
877.441.8368 | info@smartvent.com

SNAP 185

SPECIALTY PRODUCTS

TURN BATH TOWELS INTO A WARM LUXURY

Amba Antus A-2856

Dual-purpose radiator functions as towel warmer and space heater. Keep your towels warm, dry and mold/mildew free!

Product Application

- Innovative Italian heating system with no liquid
- High-quality stainless steel available in polished or brushed finishes

Performance Data

- Width: 27 1/2 in. Height: 56 3/8 in.
- BTUs: 1807
- Watts: 530
- Temp range: 131–167°F

www.ambaproducts.com
404.350.9738 | Fred Salati

SNAP 186

SPECIALTY PRODUCTS

GUARD-ACCESS CONTROL BOOTH

B.I.G. Enterprises

The Slope-Front Trooper incorporates large, outward sloping windows expressly designed for security personnel to easily view and control vehicles that traverse.

Product Application

- Trucking control
- Perimeter crossings

Performance Data

- Bullet and blast resistant
- CBRN protection available

www.bigbooth.com
626.448.1449 | Dave King

SNAP 187

Customer Satisfaction Made Easy

You work hard to create inspiring designs that your customers will love; we can help make it a little easier. Our ***CableRail*** stainless steel cables are a great choice for projects that require a view-friendly railing infill option that's attractive, durable and ultra-low maintenance. We offer a wide selection of packaged and custom cable assemblies including the automatic-locking ***Quick-Connect***® fittings, and with services such as shop drawings and engineering reports, Feeney makes design, preparation and installation…***easy.***

CABLE·RAIL®
by feeney®

Learn about our entire line of architectural & garden products.

For a free catalog call **1-800-888-2418**
or visit **www.feeney6.com**

feeney®
makes it easy

SMART VENT®

Foundation Flood Vents

WWW.SMARTVENT.COM

MADE IN THE US
ANDERSON, SC

ICC ES ESR-2074

CONTINUING EDUCATION AIA

SMART VENT FEATURES

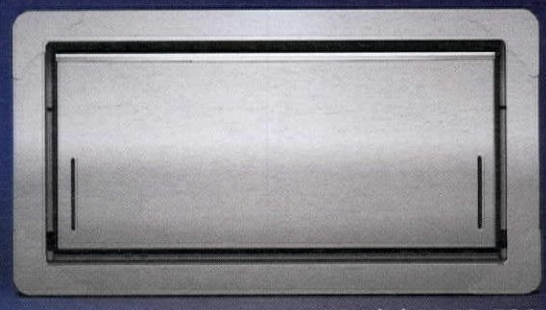
FAMILY OF PRODUCTS

ICC-ES CERTIFIED FLOOD VENTS

EMAIL INFO@SMARTVENT.COM TO REQUEST A CATALOG

Model 1540-510

DUAL FUNCTION SMART VENT model provides flood protection along with natural air ventilation. Louvers inside the vent door pivot open & closed with temperature. Fully open around 75°F and fully closed around 35°F.



Model 1540-520

INSULATED FLOOD VENT model seals out cool or warm air with a solid door and weather stripping. The 2" Styrofoam core inside of the vent door has an 8.34 R-value.

Both of these Foundation Models are designed to fit into a standard CMU or block size making it an easy retrofit or simple enough to leave a block out for new construction. All Foundation Models install with supplied stainless steel straps. All models are made of Marine Grade 316 Stainless Steel.

IDEAL FOR BREAKAWAY WALLS

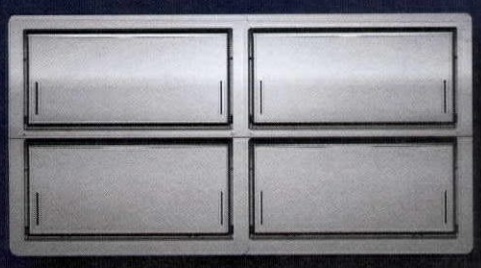
Model 1540-570

WOOD WALL FLOOD VENT is designed to fit between wood studs spaced on 16" centers with pre-drilled slots in the four corners on the vent flange for easy installation (stainless steel screws required). Insulated-only, this model is great for a garage.

POUR-IN-PLACE VINYL PVC BUCKS come as a fully assembled unit, ready to install. Available for all models. Ships with protective film and wood bracing. Available in several widths to accommodate most wall thicknesses. Bucks must be ordered with appropriate flood vent models.

Model 1540-524
Model 1540-574

OVERHEAD GARAGE DOOR MODELS retrofit into an existing garage door. Comes standard in white powder-coated stainless steel and provided back plate makes for easy installation. Interior cam holds flood door in place when overhead garage door is open.



STACKER MODELS AND QUAD CONFIGURATIONS are used where adequate wall space is not available. Some assembly required. Available for both Dual-Function and Insulated series flood vents.

CERTIFIED COVERAGE AND DIMENSIONS

Model Number	Certified Coverage		Dimensions	
	Flood	Air	Opening	R.O.
1540-510 SMART VENT	200 sq. ft.	51 sq. in.	16" x 8"	16¼" x 8¼"
1540-520 FLOOD VENT	200 sq. ft.	n/a	16" x 8"	16¼" x 8¼"
Stacker Models	400 sq. ft.	102 sq. in.	16" x 16"	16¼" x 16⅜"
Quad Configurations	800 sq. ft.	204 sq. in.	32" x 16"	33" x 16⅜"
1540-524 Overhead Garage Door	200 sq. ft.	n/a	16" x 8"	16" x 8"
1540-574 Overhead Garage Door	200 sq. ft.	n/a	14½" x 8½"	14½" x 8½"
1540-570 Wood Wall Vent	200 sq. ft.	n/a	14½" x 8½"	14½" x 8¾"

CUSTOM MULTI-FRAMES AVAILABLE
Call (877) 441-8368 for more information.

TRIM & SLEEVE KITS

ACCESSORIES

FIRE DAMPERS

POWDER COAT PAINT OPTIONS

SPECIALTY PRODUCTS

ANTI-SLIP STAIR TREADS & NOSINGS

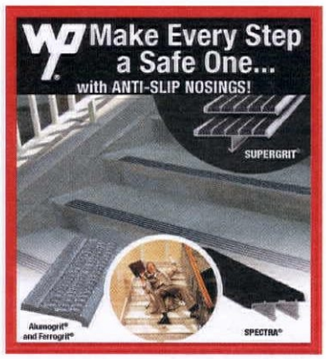
$

Wooster Products, Inc.

Anti-Slip Safety Stair & Walkway Products for new construction and renovation. Brand names include Supergrit, Spectra, Alumogrit, Stairmaster and NITEGLOW.

Product Application
- Commercial & residential buildings
- Transit systems
- Stadiums & ballparks

Performance Data
- Indoor & outdoor use
- ADA, New York MEA, IBC and IFC compliant
- Available in a variety of profiles and colors



www.wooster-products.com
800.321.4936

SNAP 188

SPECIALTY PRODUCTS

COLORED GLASS BLOCK

Glass Block of America

54 standard colors available. Color can be added to almost any Pittsburgh Corning glass block pattern. Color is applied to the interior of the glass block.

Product Application
- Schools
- Churches
- Corporate identity
- Designs

Performance Data
- Custom colors available
- Consistent color

www.glassblockofamerica.com
877.280.7700 | John Glenn

SNAP 189

SPECIALTY PRODUCTS

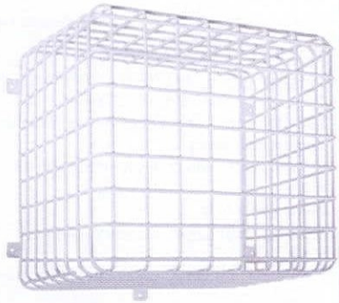
DURABLE PROTECTION

Safety Technology International, Inc. (STI)

9-gauge steel wire guard helps protect a wide variety of devices against theft and vandalism.

Product Application
- Protects CCTV cameras and sensitive equipment
- Multiuse protective cover

Performance Data
- 9-gauge coated steel wire construction
- Measures 12 x 12 x 12 in.



www.sti-usa.com/sw15
800.888.4784 | Jenny Weil, Inside Sales Mgr

SNAP 190

SPECIALTY PRODUCTS

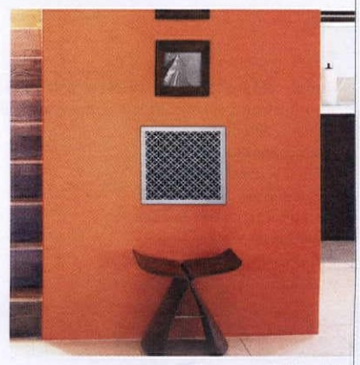
DESIGNER PERFORATED GRILLES

NEW | $$$

McNICHOLS

Add Hole Elegance to any room with McNICHOLS® Perforated Grilles. Many patterns and materials to choose from.

Product Application
- Used for interior and exterior applications
- Can be customized to the size you need



www.mcnichols.com
866.754.5144 | Rick Wan

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SPECIALTY PRODUCTS

TEAM BUILDING

VS America

The TeamTable brings it all together with a shape that enhances collaborative exchanges and instant flexibility for changing work needs.

Product Application
- Classroom
- Media/library
- Conference rooms

www.vs-network.com
704.378.6500 | info@vs-charlotte.com

SNAP 192

SPECIALTY PRODUCTS

LUMINESCENT EGRESS PATHWAY MARKINGS

GREEN | NEW | WR

Bright Path Lighting, Inc.

UL 1994 listed photoluminescent egress stairwell path markings for high-rise buildings in compliance with 2009 IBC & IFC and NFPA 101 Life Safety Codes.

Product Application
- High-rise buildings, stairwells
- Emergency egress pathway marking
- Hospitals, hotels, office buildings, universities

Performance Data
- LEED, green building concepts
- Non-electrical, non-hazardous
- 100% reliable, durable
- Low maint., easy installation; 10-yr wty

Lights on

Lights off

www.bplighting.com
877.343.7300 | Laura Davis

SNAP 193

SPECIALTY PRODUCTS

GRANDSTAND & BLEACHER DECK SYSTEM

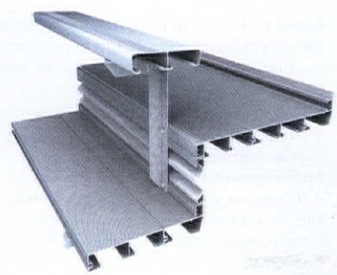
WR | NEW

Sturdisteel

Tongue & Groove "no through-bolt" decking system is a closed rigid deck that allows for seat maintenance and reconfiguration on the top side.

Product Application
- Permanent I-beam grandstands
- Permanent leg truss grandstands
- Continuous angle frame bleachers

Performance Data
- Containment of trash and debris on the top side
- Accommodates various rise and tread spacing
- Accommodates stadium chair seating



www.sturdisteel.com
800.433.3116 | info@sturdisteel.com

SNAP 194

SPECIALTY PRODUCTS

ILLUMINATED HANDRAIL/GUARDRAIL

WR

Efficient-Tec International LLC

Indoor/outdoor railing with full-color illumination satisfies architectural design goals and meets safety lighting requirements in one Made in USA solution.

Product Application
- Ramp and stairway illumination
- Enhance landscape by adding light and color
- Highlight steps and pathways for ambiance and safety

Performance Data
- LEED-rated, energy-efficient LED lighting, up to 200 lumens/ft at ‹ 5 watts
- Railing systems IBC/ADA/Life Safety Code compliant

www.eti-s3.com
214.416.9070 | Janie Haynie

SNAP 195

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

SPECIALTY PRODUCTS

ALUMINUM RAIL KITS

NEW | $$

Feeney, Inc.

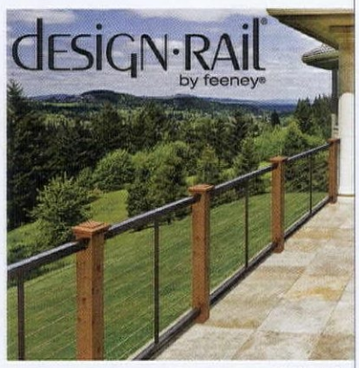
Pre-packaged kits that install between wood posts. Low maintenance, powder-coated aluminum; pre-drilled pickets for CableRail infill; recycled content LEED.

Product Application

- For 36-in. to 42-in.-high railings
- Residential, commercial, institutional projects
- Interior and exterior settings

Performance Data

- Pre-engineered, commercial-grade extrusions with slender profiles for unimpeded views
- Meets AAMA 2604 powder coating specs



feeneyinc.com/Architectural/DesignRail
800.888.2418 | Trang Nguyen-Soriano

SNAP 196

SPECIALTY PRODUCTS

HIGH-SPEED HAND DRYERS

World Dryer

SMARTdri™ Series high-speed hand dryers are one of the most energy-efficient, durable, hygienic hand dryers on the market today.

Product Application

- High-traffic facilities—airports, malls, schools, office buildings, gyms; public washrooms in restaurants, stores, stations, hospitals, theaters

Performance Data

- Intelligent on/off heating, 3-speed motor controls
- 10 sec, 3X speed of traditional hand dryers; 2X-3X longer service life than other high-speed dryers

www.worlddryer.com
800.323.0701 | Customer Services

SNAP 197

SPECIALTY PRODUCTS

PHYSICAL SECURITY PRODUCTS

$$

Armortex

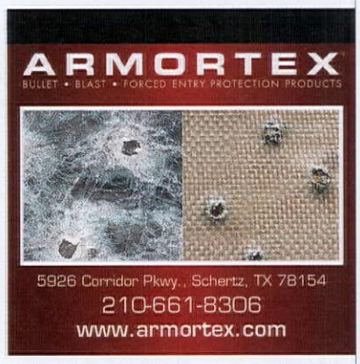
Bullet-, blast-, forced entry-resistant doors, windows, and composite wall panels as well as FEMA-rated doors.

Product Application

- Financial institutions
- Government buildings
- Law enforcement and military

Performance Data

- UL Levels 1-10 Bullet Resistant
- GSA and UFC Blast Resistant



www.armortex.com
210.661.8306 | Rick Snelling

Booth: 4922 AIA Expo

SNAP 198

SPECIALTY PRODUCTS

VENT GRILLES

$$

OGi Architectural Metal Solutions - an Ohio Gratings Company

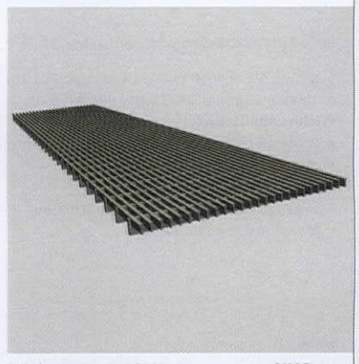
The new Vent Grille (VG) is a superior architectural close mesh grating product for interior or exterior applications and can meet ADA requirements.

Product Application

- HVAC ventilation grilles & entrance mats
- Tree grates & decorative grilles

Performance Data

- Manufactured from aluminum, carbon or stainless steel
- Multiple profile sizes available with a minimum depth of 3/4 in.



www.ohiogratings.com
800.321.9800 | Jason Richter

Booth: 1441 ASLA

SNAP 199

SPECIALTY PRODUCTS

CLEAR ROLLING SECURITY SHUTTERS

QMI Security Solutions

The new LX6 clear polycarbonate slat shutter is clear protection that still rolls into a small box housing—motorized or manual.

Product Application

- Outdoor restaurants for wind & security
- Storefront protection for high-end retailers
- Room divider partitions for sound & security

Performance Data

- Manual spring assist operation up to 100 sq ft
- Motorized operation up to 280 sq ft

www.qmiusa.com
800.446.2500 | Tom Miller

SNAP 200

SPECIALTY PRODUCTS

ARCHITECTURAL COMPONENTS

$$ | GREEN

Alumashade

World-class source for a wide variety of sun control products such as trellis structures, sun shades, wind barriers, privacy screens and custom canopies.

Product Application

- Restaurants, parking garages, stadiums, hotels

Performance Data

- Designed to install easily, provide safety to building occupants and an innovative and distinct visual signature to buildings

www.aluma-shade.com
800.599.2965 | info@aluminumrailing.com

SNAP 201

SPECIALTY PRODUCTS

CEILING FANS

$$ | NEW

The Modern Fan Company

A collection of contemporary ceiling fans aimed at the professional specifier and design-minded homeowner alike.

Product Application

- 50 UN Plaza Fed Bldg (San Francisco, CA)
- LA Fitness (multiple locations)
- Skechers (multiple locations)

Performance Data

- Contract quality construction
- Highly efficient contribution to thermal comfort
- Destratification and circulation of air

www.modernfan.com
541.482.8545

SNAP 202

SPECIALTY PRODUCTS

LINEAR SHOWER DRAIN

Noble Company

FreeStyle Linear Drain's clamping collar ensures a watertight installation. Single-piece construction, low profile and a flat bottom simplify installation.

Product Application

- Showers of all types including barrier-free and ADA
- Use w/ large-format tile for contemporary designs
- New construction, renovation

Performance Data

- U.S. Patent # 8,474,068. Patents Pending Canada & EP Pub. # 2354339
- High capacity, 36 GPM drainage
- Waterproof w/ NobleSeal® TS

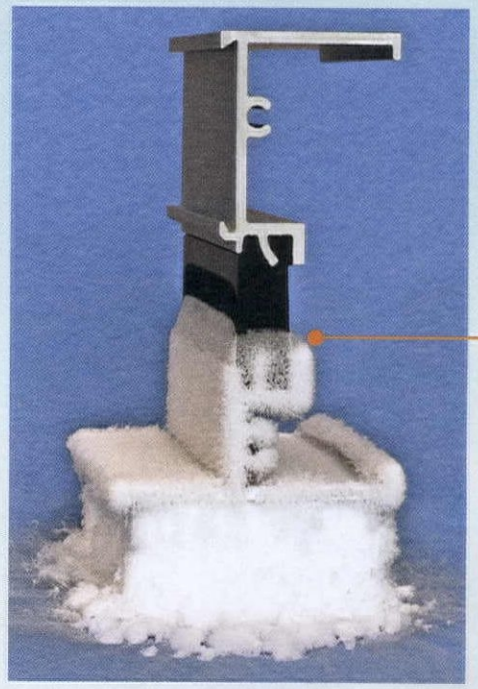
www.noblecompany.com
800.878.5788

SNAP 203

Azon Saves Energy

Daylighting systems produced with Azon structural thermal barrier technologies—the **MLP™** or **Dual Cavity**—for aluminum windows and high performance glazing components for insulating glass, will yield a fenestration system capable of upholding the highest efficiency and sustainability standards.

- Polyurethane polymer with superior insulating properties for the best balance of energy efficiency and performance
- NEW: MLP™(mechanical lock profile) and dual cavity designs for fenestration products used in the most demanding climates and conditions
- High strength for larger spans—industry's strongest thermal barrier for aluminum storefront, curtain wall and windows
- AZO/Tec® technical services with expertise in window design



Extreme cold temperatures of -100ºC (-148ºF) will not transfer through an aluminum frame with a modern pour and debridge thermal barrier (and *neither will high temperatures in very hot environments*)

THE CONTINUING ARCHITECT™

1 HSW Learning Unit

1-800-788-5942 | www.azonintl.com

AZON

Learn about the role of Azon thermal barriers in energy conservation.

SPECIALTY PRODUCTS

INNOVATION IN ICF TECHNOLOGY

NEW | GREEN

NUDURA Corporation

The One Series by NUDURA is the industry's only multi-link form offering builders and architects unmatched versatility for projects designed using ICFs.

Product Application

- Design versatility for multistory apps, including elevators, stairwells and other areas that require non-combustible products

Performance Data

- Eliminates the need for multiple trades
- Allows designers to use ICFs throughout the entire building

www.nudura.com/oneseries
866.468.6299

SNAP 204

SPECIALTY PRODUCTS

WIRE MESH PARTITION

$$

ACORN Wire and Iron Works

Since 1913 has been providing security and storage solutions. Standard 130A woven wire diamond mesh, 10-gauge steel.

Product Application

- Postal distribution centers
- Bonded warehouses
- Courts
- Lockdown areas

www.acornwire.com
312.243.6414

SNAP 205

SPECIALTY PRODUCTS

THE UNBREAKABLE HOOK

NEW | $

EMCO Specialty Products Inc.

Their newest hook is an affordable and attractive way to make your classroom, changing room or workplace smarter and safer.

Performance Data

- The hook will hold 32 lb with enough flex to ensure it never snaps
- Available in five colors
- Samples available

emcospi.com / email: info@emcospi.com
913.281.4555 | Contact: Gary Metzger

SNAP 206

SPECIALTY PRODUCTS

CUSTOM ARCH SHELTER

WR | NEW

Poligon by Porter Corp.

Leader in the design, engineering and manufacturing of shade coverings for applications in steel, fabric and wood.

Product Application

- Parks
- Schools
- Sports complexes

Performance Data

- Protected in the most durable powder coat finish in the industry, Poli-5000
- Available in 30 smooth colors / 10 textured colors

www.poligon.com
616.399.1963

SNAP 207

STEEL WORK STATION BRACKETS

EXTRA STRONG 1/8" STEEL

Black, white, gray, almond or brown krinkle powder coat.
Primer coat available for your own custom paint.

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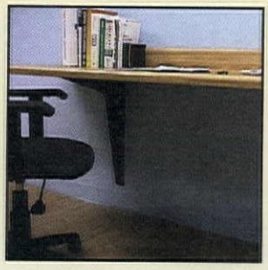
15 x 21"	12 x 18"	8 x 12"	5 x 8"



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Packaged in equal quantities of rights and lefts • 1 1/2" forms with 1/4" mounting holes
150,000 in stock and ready to ship

A&M HARDWARE, INC.

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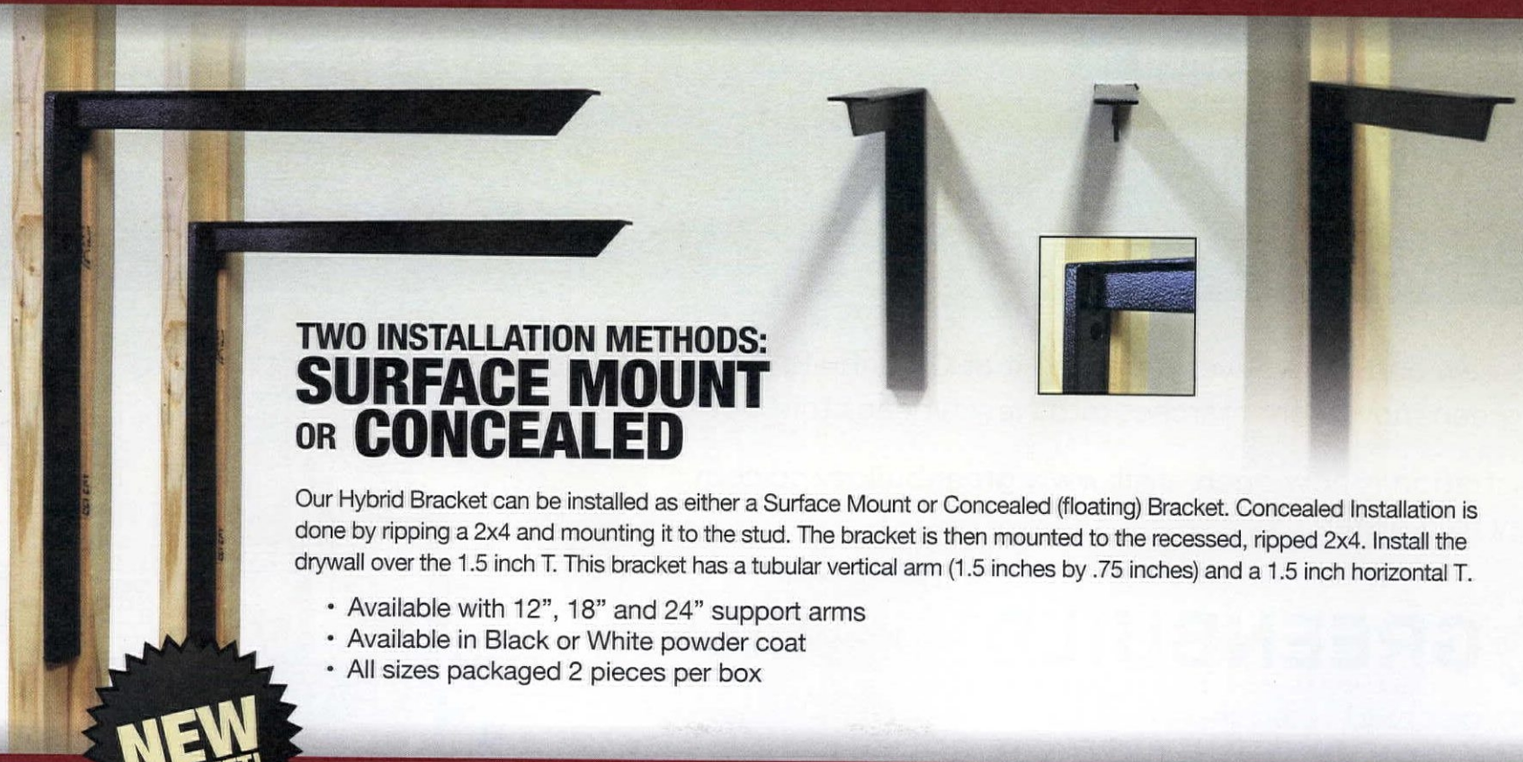
www.AandMhardware.com



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Our Hybrid Bracket can be installed as either a Surface Mount or Concealed (floating) Bracket. Concealed Installation is done by ripping a 2x4 and mounting it to the stud. The bracket is then mounted to the recessed, ripped 2x4. Install the drywall over the 1.5 inch T. This bracket has a tubular vertical arm (1.5 inches by .75 inches) and a 1.5 inch horizontal T.

- Available with 12", 18" and 24" support arms
- Available in Black or White powder coat
- All sizes packaged 2 pieces per box

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THE LARGEST
SUSTAINABLE BUILDING EVENT IN THE U.S.

MAXIMIZE YOUR INVESTMENT

Greenbuild is the most cost-effective way to view high-performance products featuring 750 exhibitors, 23,000 attendees, 160,000 square feet & specialized pavilions.

SEEING IS BELIEVING

Discover innovation applications & technologies – all in one place. New features include a net-zero-electricity demonstration home on the show floor, a residential pavilion, new education sessions, and a new on-floor interactive area called the product showcase.

IMMERSE YOURSELF

Design your own curriculum with our comprehensive education program, including 200+ educational sessions, LEED workshops, summits, opening & closing keynotes, entertainment tours and special events.

If it's new and innovative, you'll find it at Greenbuild. Join us as the green movement marches into New Orleans this October!

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MORIAL CONVENTION CENTER | NEW ORLEANS, LA

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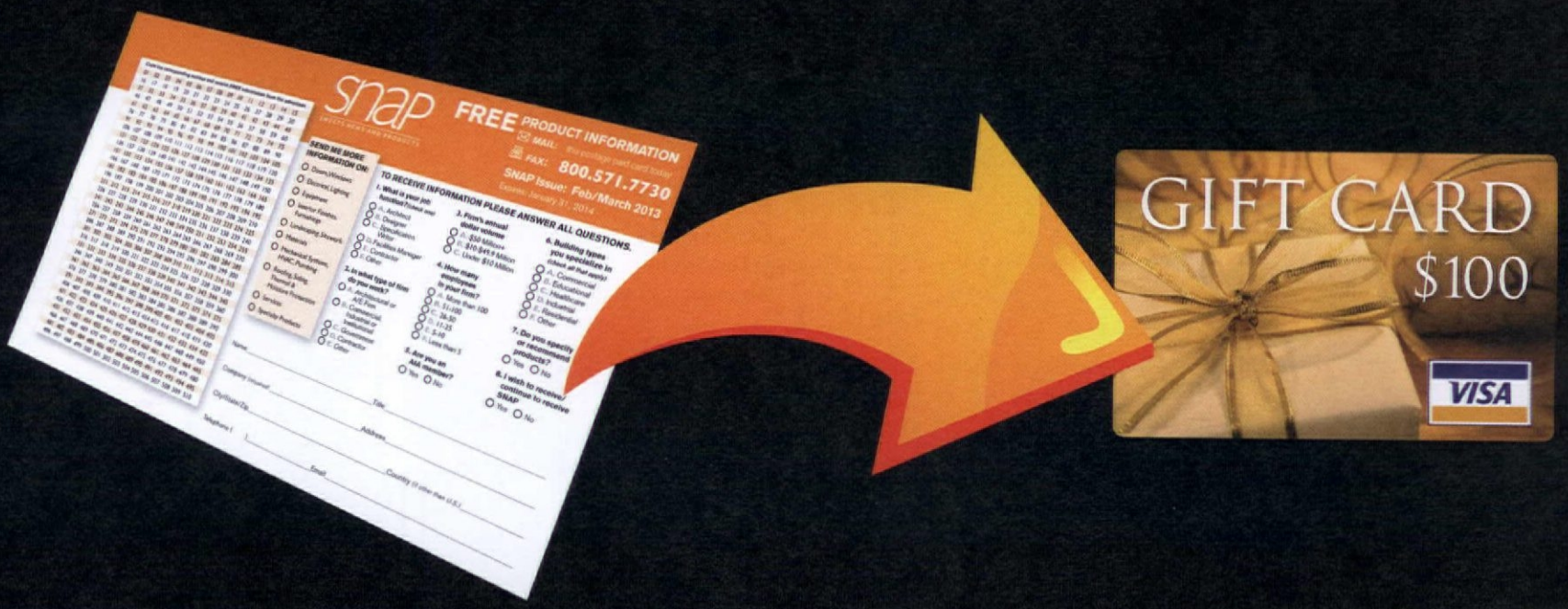

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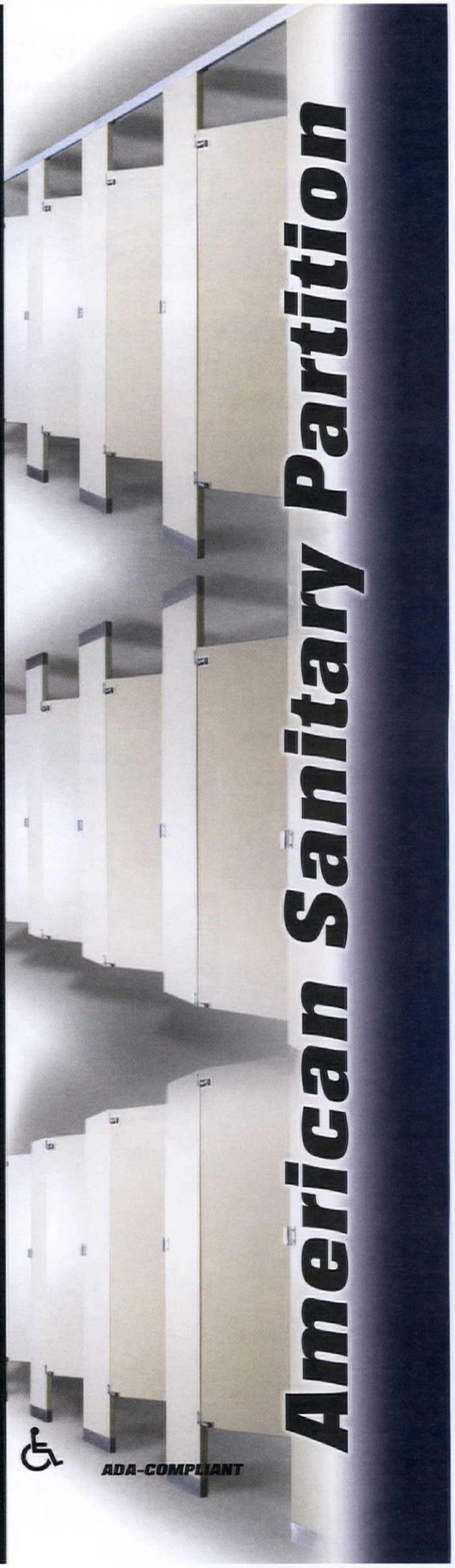

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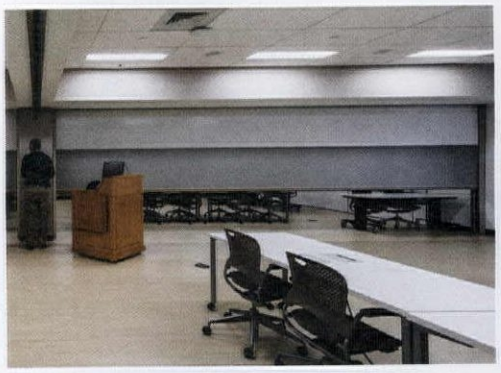

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SNAP 60

EXHIBITIONS

Hans Scharoun: Architect and Visionary

CAMBRIDGE, MASSACHUSETTS

Through August 15, 2014

Hans Scharoun (1893–1972) is known today for expressionist architecture of profound humanism. Having gained recognition for his house designs at the German Werkbund exhibitions of 1927 and 1929, his practice before World War II focused on residential projects, the most successful of which were the Siemensstadt Housing Estate in Berlin (1930) and the Schminke House at Löbau in Saxony (1932). This exhibition at the MIT School of Architecture + Planning focuses on Scharoun's graphic art, from his earliest preserved drawings of 1909 to graphics for posthumous projects. For more information, visit *mit.edu*.

Finland: Designed Environments

MINNEAPOLIS

Through August 17, 2014

The first major U.S. exhibition devoted to contemporary Finnish design since the 1990s, *Finland: Designed Environments* will present a holistic overview of the past 15 years in Finland, a period of rapid innovation and design breakthroughs. The exhibition, hosted by the Minneapolis Institute of Arts, will pay particular attention to young Finnish architects emerging as major international voices, including K2S Architects, Hollmén Reuter Sandman, and Verstas Architects, among others. For more information, visit *new.artsmia.org*.

Wright Around Chicago and The Pedal Oak Park Guided Tours

CHICAGO AND OAK PARK, ILLINOIS

Through August 27 and September 28, 2014

Two popular bus tours allow people to experience the wealth of Frank Lloyd Wright–designed buildings in the Chicago area. The Wright Around Chicago guided bus tour features the best of Frank Lloyd Wright in Chicago and Oak Park, Illinois. The Pedal Oak Park guided bicycle tour stops at 22 Wright-designed structures in the Frank Lloyd Wright-Prairie School of Architecture Historic District in Oak Park through September 28. For more information, visit *flwright.org*.

Italian Futurism, 1909–1944: Reconstructing the Universe

NEW YORK CITY

Through September 1, 2014

The first comprehensive overview in the United States of one of Europe's most important 20th-century avant-garde movements, *Italian Futurism* features more than 360 works by more than 80 artists, architects, designers, photographers, and writers. This multidisciplinary exhibition at the Solomon R. Guggenheim Museum examines the full historical breadth of the movement, from its 1909 inception with the publication of Filippo Tommaso Marinetti's first Futurist manifesto through its demise at the end of World War II. For more information, visit *guggenheim.org*.

Open to the Public: Civic Space Now

NEW YORK CITY

Through September 6, 2014

An exhibition exploring why people gravitate to (or avoid) civic spaces—the places between buildings where people can assemble—the exhibition's 20 case studies are divided into three intersecting thematic categories: congregation, contemplation, and circulation. *Open to the Public* presents the work of contemporary designers, including Snøhetta, Weiss/Manfredi, and James Corner Field Operations along with other almost-unnoticed places where people gather. At the Center for Architecture. For more information, *visit cfa.aiany.org*.

Palaces for the People: Guastavino and the Art of Structural Tile

NEW YORK CITY

Through September 7, 2014

At the Museum of the City of New York, this exhibition showcases the architectural beauty and engineering strength of spaces created by Spanish immigrants Rafael Guastavino and his son, Rafael Jr., who immigrated to New York from Barcelona in the late 19th century. Their legacy can be seen in thin-tile structural vaults hidden in plain sight throughout New York, including Grand Central Terminal, the famous Oyster Bar, the Cathedral of Saint John the Divine, the Ellis Island Registry Hall, the Elephant House at the Bronx Zoo, the Boathouse, the Tennis Shelter in Prospect Park, and many others. For more information, visit *mcny.org*.

Architecture to Scale

CHICAGO

Through September 14, 2014

An exhibition at the Art Institute of Chicago, *Architecture to Scale* demonstrates the complex process and vast range of scales in architectural representation through the work of two ground-breaking architects, in adjacent installations, Stanley Tigerman and Zago Architecture. Stanley Tigerman, a major figure in Chicago's postmodern-architecture movement, is largely known for his intricate and inventive Architoon drawings. Founded by Andrew Zago in 1991, Zago Architecture employs a rigorous practice of research and experimentation in parallel with its architecture projects. For more information, visit *artic.edu*.

Houghton Hall: Portrait of an English Country House

HOUSTON

Through September 22, 2014

For the first time, a collection of paintings, sculptures, and decorative arts from Houghton Hall in England—architect William Kent's 18th-century masterpiece—travels to the U.S. The exhibition brings together more than 100 objects with furniture, some designed by Kent himself, to evoke the stunning rooms at Houghton Hall. At the Museum of Fine Arts. For more information, visit *mfah.org*.

Designing Home: Jews and Midcentury Modernism

SAN FRANCISCO

Through October 6, 2014

The first major exhibition to explore the role of Jewish architects, designers, and patrons in the formation of a new post–World War II American domestic landscape, *Designing Home* highlights the essential contributions of well-known designers and architects, among them Anni Albers, George Nelson, and Richard Neutra. With more than 120 objects, *Designing Home* is organized around five key areas that include furniture, Judaica, and Hollywood films. At the Contemporary Jewish Museum. For more information, visit *thecjm.org*.

NYC Makers: The MAD Biennial

NEW YORK CITY

Through October 12, 2014

This exhibition spotlights the creative communities thriving across the five boroughs of New York. It showcases the work of approximately 100 makers who have been nominated by a pool of more than 300 New York–based cultural leaders, with final participants selected by a jury. From renowned cultural leaders to *enfants terribles*, every maker selected demonstrates the highest level of skill in his or her respective field, whether architecture, furniture design, fashion, or film. At the Museum of Arts and Design (MAD). For more information, visit *madmuseum.org*.

Conceptions of Space: Recent Acquisitions in Contemporary Architecture

NEW YORK

Through October 19, 2014

Highlighting recent acquisitions of the Museum of Modern Art's Department of Architecture and Design, this exhibition explores how architecture is still an artistic endeavor: As a response to wider cultural issues, the conception and articulation of space goes beyond functional needs. Included in the survey are 20 international projects by architects and artists that range from large-scale models, drawings, and photographs to videos and a room-sized installation. For more information, visit *moma.org*.

Unsettled Landscapes

SANTA FE, NEW MEXICO

Through January 11, 2015

Unsettled Landscapes will look at the insistent forces, political conditions, and historical narratives that inform the work of contemporary artists across the Americas—from Nunavut to Tierra del Fuego. Through three themes—landscape, territory, and trade—this exhibition at SITE Santa Fe explores the interconnections among representations of the land, movement across the land, and economies and resources derived from the land. For more information, visit *sitesantafe.org*.

Designing for Disaster

WASHINGTON, D.C.

Through August 2, 2015

From earthquakes to hurricanes, flooding, and rising sea levels, natural disasters can strike anywhere and anytime. In light of this reality, the National Building Museum presents the multimedia exhibition Designing for Disaster, a call to action for preparedness on the part of design professionals, local authorities, homeowners, and school kids. The exhibition explores strategies local leaders are pursuing to reduce risks and build more resilient communities. For more information, visit *nbm.org*.

LECTURES, CONFERENCES, AND SYMPOSIA

Architectural Record Innovation Conference 2014

NEW YORK CITY

October 9, 2014

Architectural Record's acclaimed Innovation Conference New York covers topics ranging from the merging of landscape and architecture to the integration of contemporary art, technology, and design. Keynote speakers include Doriana and Massimiliano Fuksas and Odile Decq. For more information, visit *construction.com/events/2014/innovation-ny*.

Greenbuild 2014

NEW ORLEANS

October 22–23, 2014

Greenbuild is the world's largest conference and expo dedicated to green building. The conference features three days of speakers, networking opportunities, industry showcases, LEED workshops and tours of the host city's green buildings. Join thousands of other people who agree that green building is a good idea and good for business. For more information, visit *greenbuildexpo.com*.

COMPETITIONS

Mud House Design 2014

Registration deadline: August 15, 2014

Nka Foundation invites students to Mud House Design 2014, an international architecture competition to demonstrate that mud architecture can be well-made and durable. Designs should be for a single-family home, and use local materials and labor. The first-place-winning entry will be built in the Ashanti Region of Ghana. For more information, visit *nkafoundation.org*.

vision42design Competition

Registration deadline: September 8, 2014

The Institute for Rational Urban Mobility is hosting a design competition to imagine an enhanced public environment for 42nd Street in Midtown Manhattan. Participants should transform the street into a world-class boulevard, complete with public spaces and a light-rail tram. Cash prize: $10,000. For more information, visit *vision42.archpaper.com*.

Guggenheim Helsinki Design Competition

Submission deadline: September 10, 2014

This open international two-stage competition welcomes anonymous submissions from firms and individuals to design a new Guggenheim museum to be built in the Finnish capital. The resulting Guggenheim Helsinki museum will organize and present internationally significant exhibitions of art from the 20th and 21st centuries, and Nordic art and architecture. It will also be distinctive within the Guggenheim constellation of museums by actively including design and architecture in its programming. For more information, visit *designguggenheimhelsinki.org*.

Breaking New Ground

Registration opens October 2014

Breaking New Ground is an international design and ideas competition that addresses the urgent affordable-housing needs of farmworker and service-worker families in the Coachella Valley in southeastern California. Efforts to improve living conditions suffer from a lack of funding and coordination. The competition seeks to address this by harnessing the power of design to envision new precedents, mechanisms, and policies for affordable-housing implementation and development, with implications for California and the nation. For more information, visit *breaknewground.org*.

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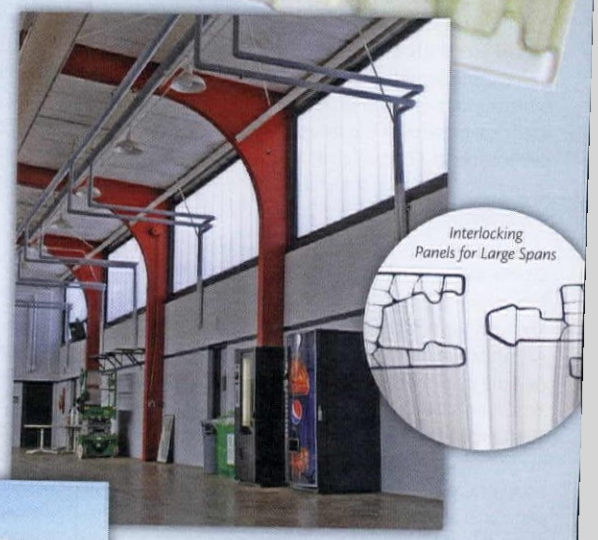

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Independence Days

NeoCon 2014's introductions support privacy, comfort, and health as workplace design trends see another paradigm shift.

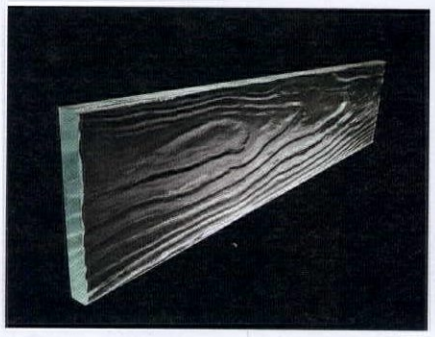
MARKING ITS 46TH YEAR at the Merchandise Mart in Chicago, the NeoCon World's Trade Fair, held in June, showed a considerable uptick in numbers: General attendance was recorded at 50,000, a 20 percent increase over 2013. The design community had much to do with this as firms sent large teams instead of just a handful of representatives, notes Susan McCullough, senior vice president of **Merchandise Mart Properties** (MMPI), which manages the show. Uncertainty about the show's future at the Mart (in 2012, MMPI announced that it will host the show there through 2021) and variances in the architectural and interior design billing indices did not affect the general industry opinion that the economy is on a steady rise.

"Our permanent and temporary exhibitors responded to the uptick in the economy with creative solutions for key vertical markets, from office to education, hospitality, and health care," says MMPI associate Byron Morton. "Solutions on display this year focused on employee well-being and productivity."

Permanent showroom and temporary booth exhibitors alike launched products that provide respite—through materiality and motif—for today's knowledge workers. In response to the *de rigeur* open plan, which is favored by corporate real estate for maximizing tenant flexibility, the new solutions support individual comfort and privacy, without changing the floor plate irreparably.

Steelcase embraced private quarters with its Quiet Spaces collection. Developed with Susan Cain—author of *Quiet: The Power of Introverts in a World That Can't Stop Talking*—the collection draws extensively on the 2012 book, along with the manufacturer's own research on work styles and productivity influencers. Cain and Steelcase outlined a set of principles to support the way introverts work, in 28- to 100-square-foot flexible areas that can be closed off. "The spaces offer the psychological safety of being on your own," Cain says, "and knowing that you're not subject to noise or others watching while you're focused on your work."

Borgo and **Vitra** both presented semiprivate compartmentalized seating. Privee, from Borgo, encircles occupants with an optional felt-wrapped canopy of 5mm steel plate and recycled polyurethane composite. An older design by the Bouroullec Brothers, Vitra's Alcove is a sofa enclosed by an upholstered partition to maximize visual and acoustical privacy. For those seeking to erect a transparent conference room or private office, **Haworth** released a demountable glass-wall system with minimal framing for clear sightlines. The manufacturer also previewed its Patricia Urquiola–designed mobile work/lounge collection Openest, which includes versatile privacy screens.

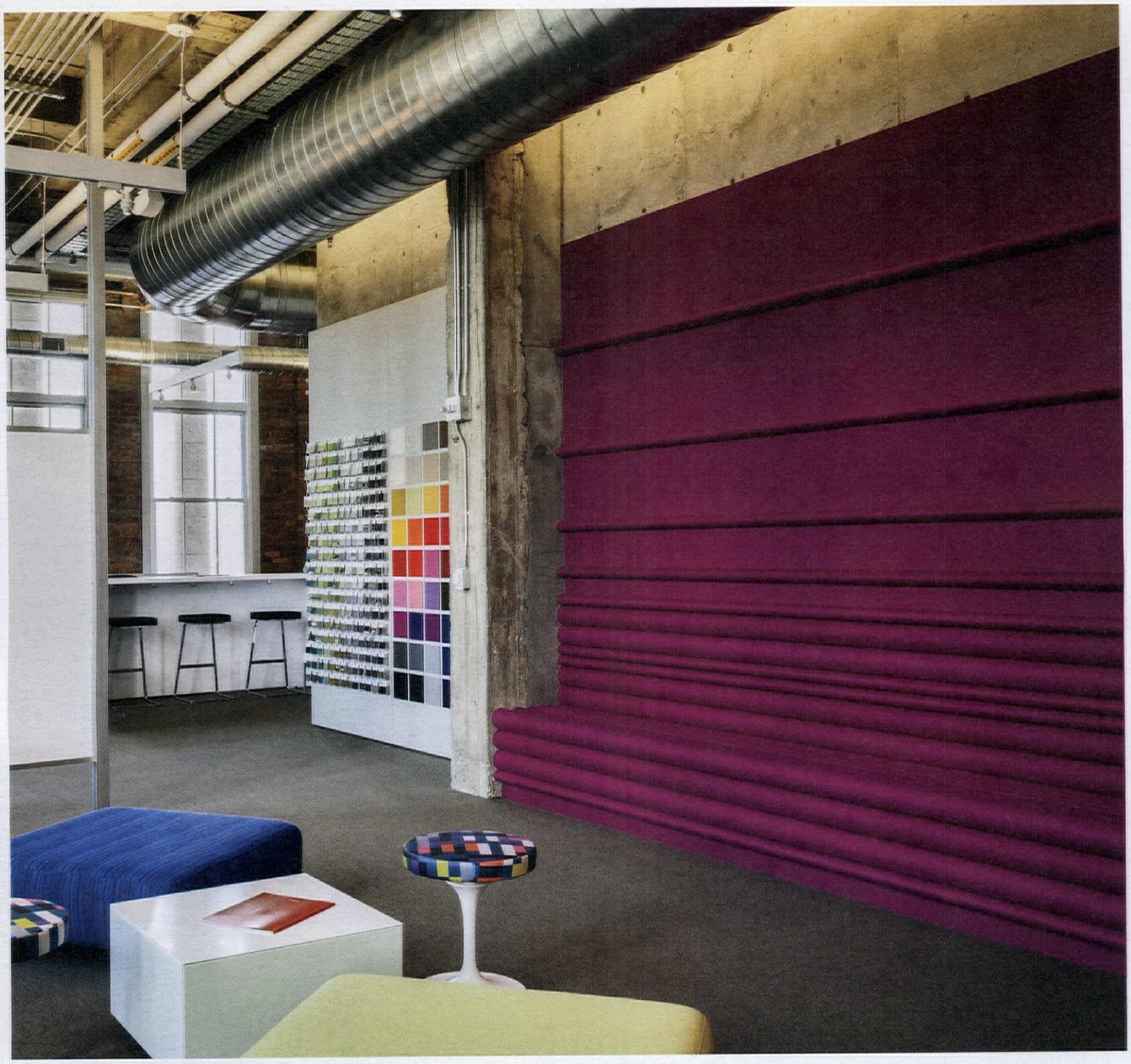


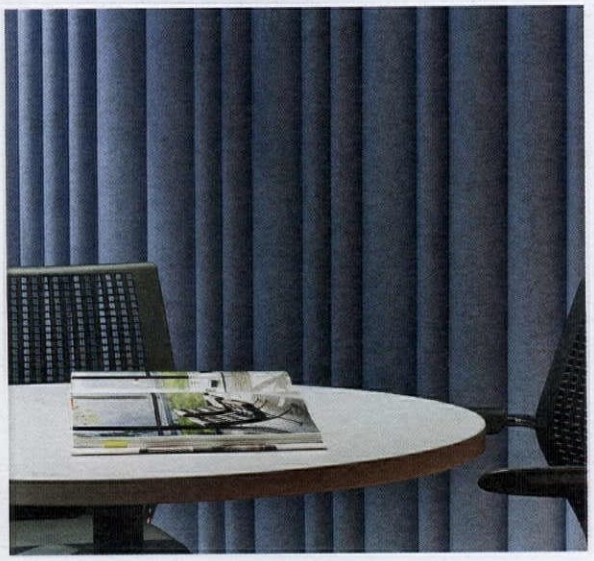
A number of introductions addressed health concerns. The Livello work table from **Teknion** adjusts from seated to standing height via a spring-activated mechanism—no electricity required. **Izzy+** showed Nikko task seating, which promotes better posture. And biophilic designs, including the wood-grain–inspired Plank glass from **Joel Berman** and Against the Grain modular carpet from **Mannington Commercial**, bring a touch of the outdoors to interiors. *—Emily Hooper*

WORK IT (clockwise from top left) Teknion's Livello table provides a 20-inch range of vertical motion. Openest privacy panels by Haworth, made from FDIM fabrics, are available in sets of three, six, and nine. Mannington's Against the Grain carpet references reclaimed wood. Steelcase's Susan Cain Quiet Spaces collection offers a variety of stress-free work settings. Plank, from Joel Berman, is kiln-cast glass with a cedar grain pattern.

PARTNERS IN DESIGN

BY INGRID SPENCER





FELT: FROM YURTS AND CLOTHING to auto parts, the material has been used since ancient times, lauded for its durability, flame resistance, renewability, and acoustic and thermal-insulation properties. No wonder, then, that the material is a hot commodity in the contract office market today. Now **FilzFelt** and **Architecture Research Office** (ARO) have collaborated on a modern line of felt solutions, among them wall and ceiling coverings and room dividers for office settings. (ARO had previously designed showrooms for Knoll, the owner of FitzFelt, and that's how the connection was made.) The result of this creative partnership? Two wall coverings—ARO Plank and Shingle—and a ceiling baffle called ARO Baffle, composed of 3mm-thick wool felt vacuum-formed to an acoustic substrate. There's also ARO Array, a hanging room-division panel that offers intriguing geometric patterns. All are conceived as easily installed kits of parts. "The collection takes advantage of felt's many properties and makes them perform at a higher level," says ARO principal Kim Yao. (SNAP #43)

STEPHEN CASSELL, KIM YAO, AND ADAM YARINSKY

The principals of ARO run the firm much like a design laboratory. Their award-winning work is in the permanent collections of MoMA and the Cooper-Hewitt.

aro.net

TRACI ROLOFF AND KELLY SMITH

As an architecture intern, Smith fell in love with wool felt and began making home goods and accessories with it. She founded FilzFelt in Boston in 2008 with Roloff, whose background is in interior design.

filzfelt.com

PHOTOS, FROM TOP: COURTESY OF ARO; RICHARD BARNES; ELIZABETH FELICELLA

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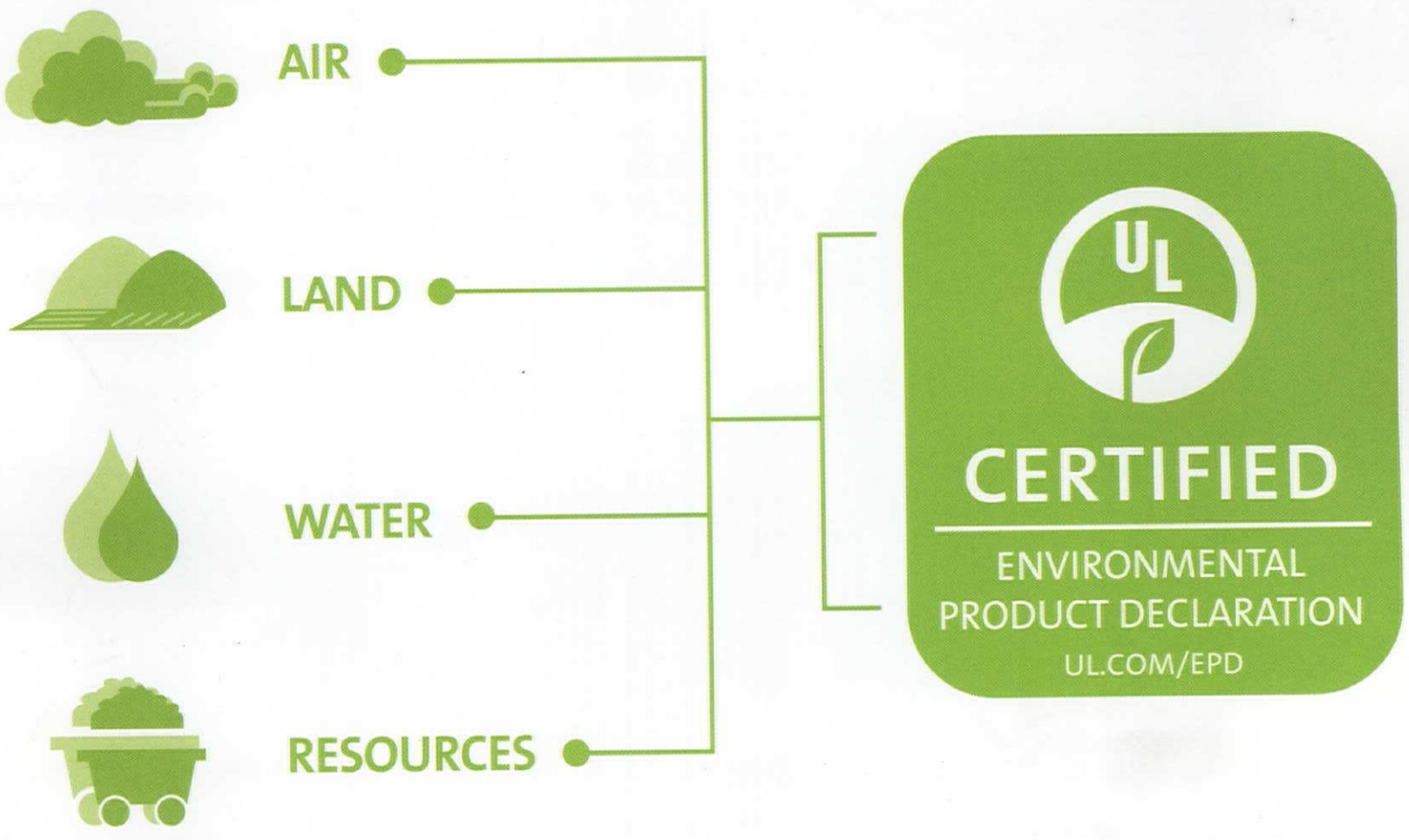

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HOLE Inspirations

Perfect Flow

Project: Dollar General Headquarters
Architect: Leo A Daly Architects
Products: Perforated Metal (Walkway Cover)

"We wanted the space to be open for air flow and retain the experience of the outside environment, so perforated metal rose quickly as top choice because it combines air, light and shade."

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Opening Up the Western Front

Manufacturers of building products are on the march in Colorado, Oklahoma, Texas, and Utah.

BY J. MICHAEL WELTON

EVERYTHING MAY BE bigger in Texas, but the size of the economic recovery in Colorado, Oklahoma, and Utah is impressive, too.

Colorado held its own in the Great Recession, though unemployment reached 9.3 percent, due mostly to the home-building slump. Now it's back to 6.3 percent, with a workforce that's high-tech and highly educated.

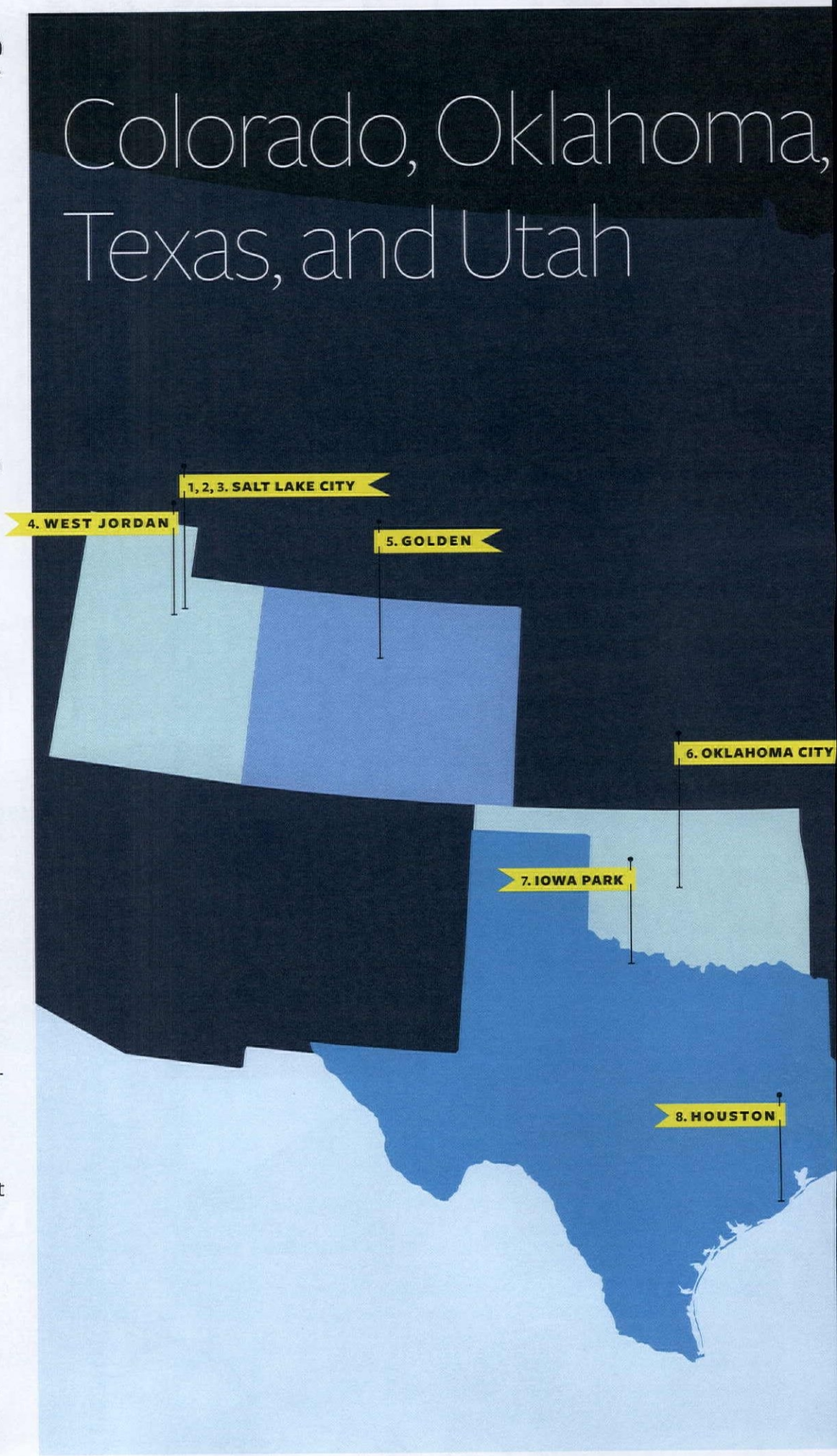
At Golden, Colorado–based Invisible Structures, which manufactures porous pavers and erosion control products, a debt-free balance sheet helped the company withstand the downturn. "We had no decrease in structure, standing, or employment," says Kevin Wright, president and COO.

In Oklahoma, boom times are back. In 2009 manufacturing jobs numbered 129,300; by 2013 the figure reached 136,500. That growth, along with relocations and rebuilding as a result of tornado damage, is putting upward pressure on housing stock and building materials. "We quarry a lot of rock for commercial and residential construction," points out Don Hackler, deputy director for the Oklahoma Department of Commerce.

Manufacturing in Texas is steadily increasing. "In the Iowa Park and Wichita Falls region, there's a significant amount of growth," says Harry Carner of S-5!, a manufacturer of roofing clamps. S-5! sales may have been flat in 2012 and 2013, he notes, but "we're seeing significant growth—to the tune of 10 percent—in 2014 so far."

There's good news in Utah, too, where unemployment fell below 4 percent. Sales at Studio by 3form, the manufacturer of decorative panels, were at "$1.3 million in 2010 and over $3 million last year," according to Azar McMaster, general manager for the Salt Lake City company. At nearby Connor Sport Court International, the residential and civic/education markets helped the company achieve a rise in sales. "It's been fluctuating like a sawtooth but angled upward," says president and CEO Ron Cerny. And upward is good, no matter the pattern.

Colorado, Oklahoma, Texas, and Utah

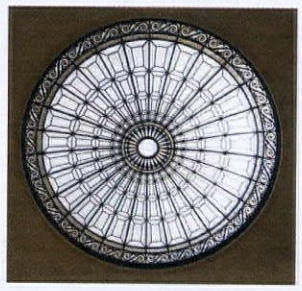


1 **MANUFACTURER:** Studio by 3form
LOCATION: Salt Lake City
PRODUCTS: Decorative panels.
FOUNDED: 2011 **EMPLOYEES:** 60
PRICE RANGE: $–$$$ **3-FORM.COM**

2 **MANUFACTURER:** Won-Door Company
LOCATION: Salt Lake City
PRODUCTS: Horizontal accordian sliding doors.
FOUNDED: 1962 **EMPLOYEES:** 125
PRICE RANGE: $$ **WONDOOR.COM**

3 **MANUFACTURER:** Connor Sport Court International
LOCATION: Salt Lake City
PRODUCTS: Sports flooring products including wood modular, synthetic, and rubber.
FOUNDED: 2005 (THROUGH MERGER) **EMPLOYEES:** 200+
PRICE RANGE: $–$$ **CONNORSPORTCOURT.COM**

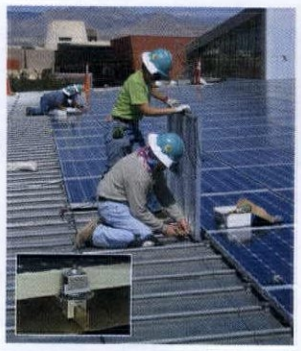
4 **MANUFACTURER:** Historical Arts & Casting
LOCATION: West Jordan, Utah
PRODUCTS: Custom architectural metalwork such as bronzed doors and windows, lighting, railings, fountains, furniture, grilles, and skylights.
FOUNDED: 1974
EMPLOYEES: 60
PRICE RANGE: $$$
HISTORICALARTS.COM



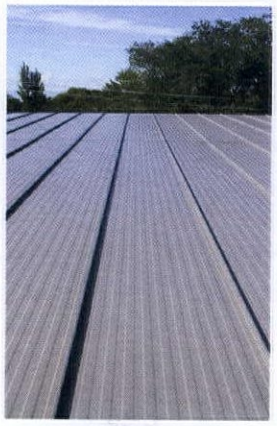
5 **MANUFACTURER:** Invisible Structures
LOCATION: Golden, Colorado
PRODUCTS: Porous paving, underground stormwater containment systems, erosion control systems, drainage conveyance systems, and portable boardwalks.
FOUNDED: 1982
EMPLOYEES: 10
PRICE RANGE: $$
INVISIBLESTRUCTURES.COM

6 **MANUFACTURER:** ClimateMaster
LOCATION: Oklahoma City
PRODUCTS: Water source and geothermal heat pumps.
FOUNDED: 1955
EMPLOYEES: 600
PRICE RANGE: $$
CLIMATEMASTER.COM

7 **MANUFACTURER:** S-5! Metal Roof Innovations
LOCATION: Iowa Park, Texas
PRODUCTS: Attachment solutions for mounting PV, snow retention, and utility components to metal roofs; full line of clamps and brackets to attach almost any ancillary.
FOUNDED: 1992
EMPLOYEES: 38
PRICE RANGE: $
S-5.COM

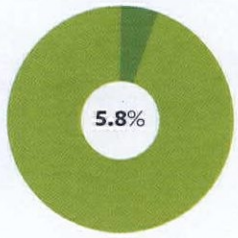


8 **MANUFACTURER:** MBCI
LOCATION: Houston
PRODUCTS: Metal panels, including single-skin and insulated metal wall and roof panels and retrofit roofing solutions.
FOUNDED: 1976
EMPLOYEES: 850
PRICE RANGE: $$
MBCI.COM



SNAPSHOTS

COLORADO



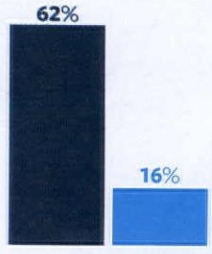
The state has seen **31 consecutive months of payroll job gains**.

According to a survey of households, the **unemployment rate fell** 0.2% in May, to **5.8%**.

The last time the Colorado unemployment rate was 5.8% or less was in November 2008, when the rate was **5.7%**.

SOURCE: COLORADO DEPARTMENT OF LABOR & EMPLOYMENT

OKLAHOMA



Oklahoma added **30,100 jobs in 2013**, for an annual growth rate of **1.9%**.

Of Oklahoma's jobs, **62%** are in the **manufacturing sector** and **16%** are in the **oil and gas industry**.

SOURCE: OKLAHOMA DEPARTMENT OF COMMERCE

TEXAS

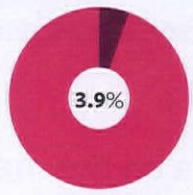
Texas saw a **2.3% increase in employment in 2013**, gaining **252,400** seasonally adjusted **jobs** from December 2012 to December 2013.

In 2013, Texas **added more jobs** than any other state for the **fourth consecutive year**, according to data published by the Bureau of Labor Statistics.

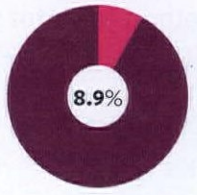
In the first quarter of 2014, **venture capitalists invested** more than **$348.7 million**, primarily in the Texas software, medical-devices, biotech, and industrial/energy-services sectors.

SOURCE: STATE OF TEXAS, OFFICE OF THE GOVERNOR

UTAH



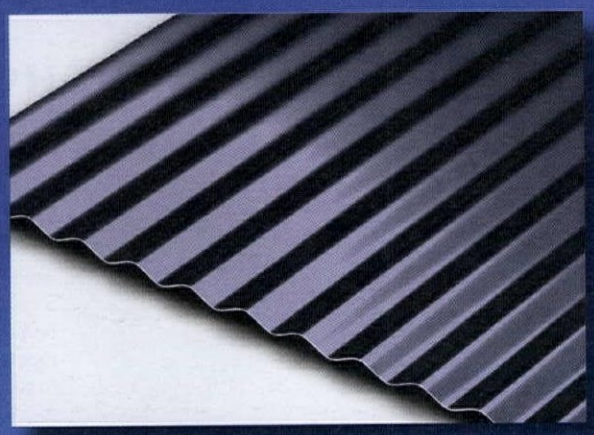
The state's **unemployment rate** hit a five-year low of **3.9%** in March 2014.



In Utah, the **manufacturing industry** accounts for **8.9%** of all state employment.

Utah's **manufacturing sector** is currently the **third-largest industry** in the state for total employment. Presently, manufacturing **employs** about **113,000 workers** and has created an additional **300,000 related jobs** statewide.

SOURCE: ECONOMIC DEVELOPMENT CORPORATION OF UTAH



Twist on History

Firecreek Restaurant - Downingtown, PA Owner: Silverang Hallowell Development Company / Carroll Contractors
Architect: Carroll Design Build Roofing Contractor: Munn Roofing Material: 24 ga. Galvalume Plus, 16 oz. Copper
Profile: High Snap-On Standing Seam, 1/2" Corrugated

CASE STUDY

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