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**RETAIL**

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**ONE OF A KIND**
Aesop leverages local history and materials to make each store relevant
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**FOR THE BIRDS**
Protecting our feathered friends from collisions with glass facades
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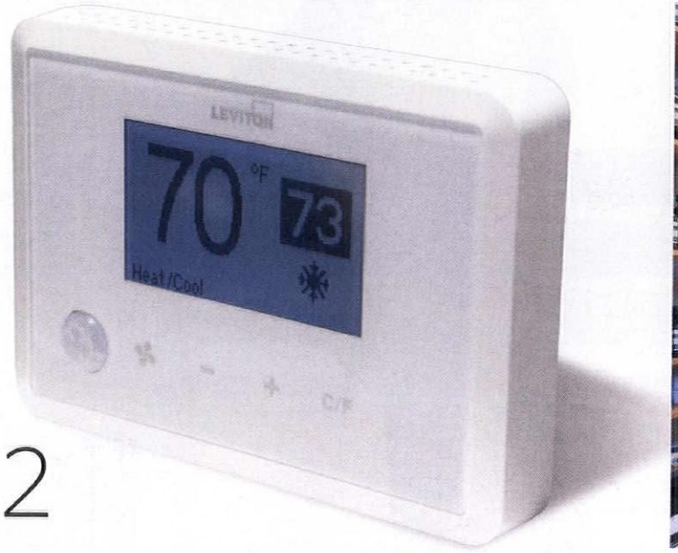


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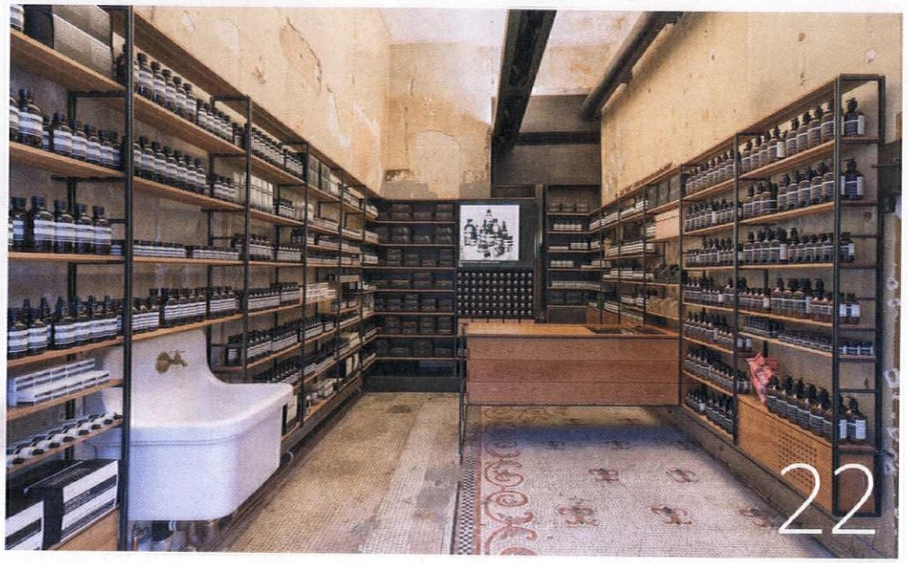

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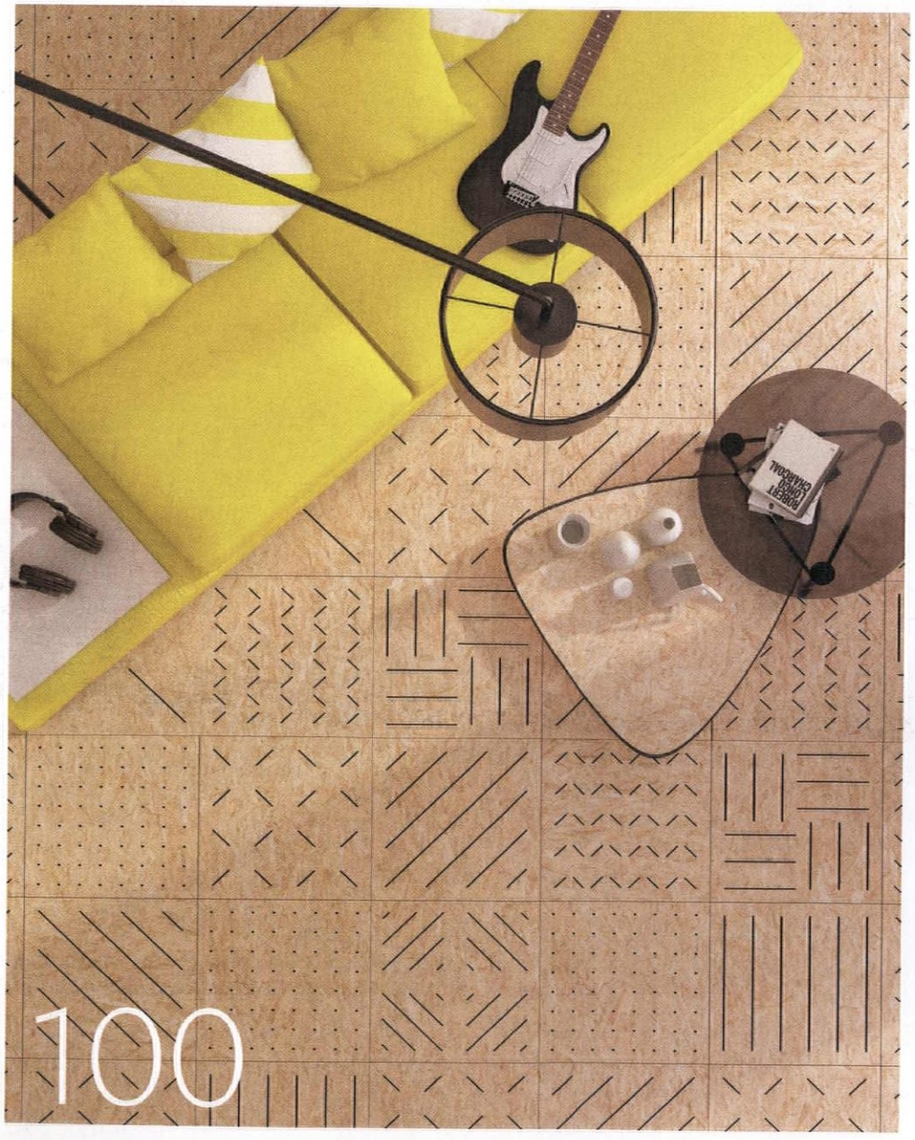

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# Shop Till You Drop

**AS WE ARE** caught up in the holiday season, with its bustle of parties, presents, and sales, retail design is on my mind. The shopping experience is forever evolving, and getting it right is especially important now, in these still-shaky economic times. So in the future: What will customers look for in a store? How can retailers draw them in? And in which ways can we improve the overall customer experience?

This issue looks at innovative design solutions for the changing retail climate. We cover **Aesop**, a global skincare chain that hyperlocalizes its 100-plus stores, leveraging area talent, history, and materials (page 22). Our case study focuses on e-commerce clothing company **Combatant Gentlemen**, which added a retail showroom and on-site tailoring to its corporate headquarters (page 17). Plus architect **Rene Gonzalez** walks us through his design for the **Alchemist** jewelry store, his third Miami outlet for the upscale lifestyle brand (page 14).

Elsewhere, we look at the construction elements that go into retail design, including storefronts and entrances (page 32) and stairs and elevators (page 40). I'm a sucker for surfacing, so there's also a roundup of the latest introductions at Cersaie, the tile and bathroom fittings fair held annually in Bologna, Italy (page 100).

We hope the issue inspires you. May you have wonderful holidays—and we look forward to seeing you in 2016!

Julie Taraska

**JULIE TARASKA** *Editor*

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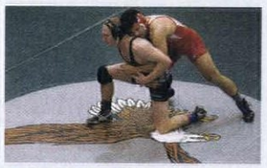

### Safety in the Gym: Specifying Equipment to Protect Users and Spectators

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### Performance Matters!

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### Controlling Moisture in Masonry

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### High-Performance Aesthetics in Precast Concrete

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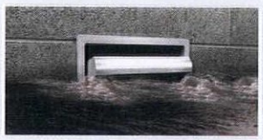

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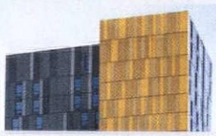

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### The Health and Design Benefits of Accessing Daylight and Views with Dynamic Glass

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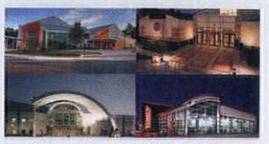

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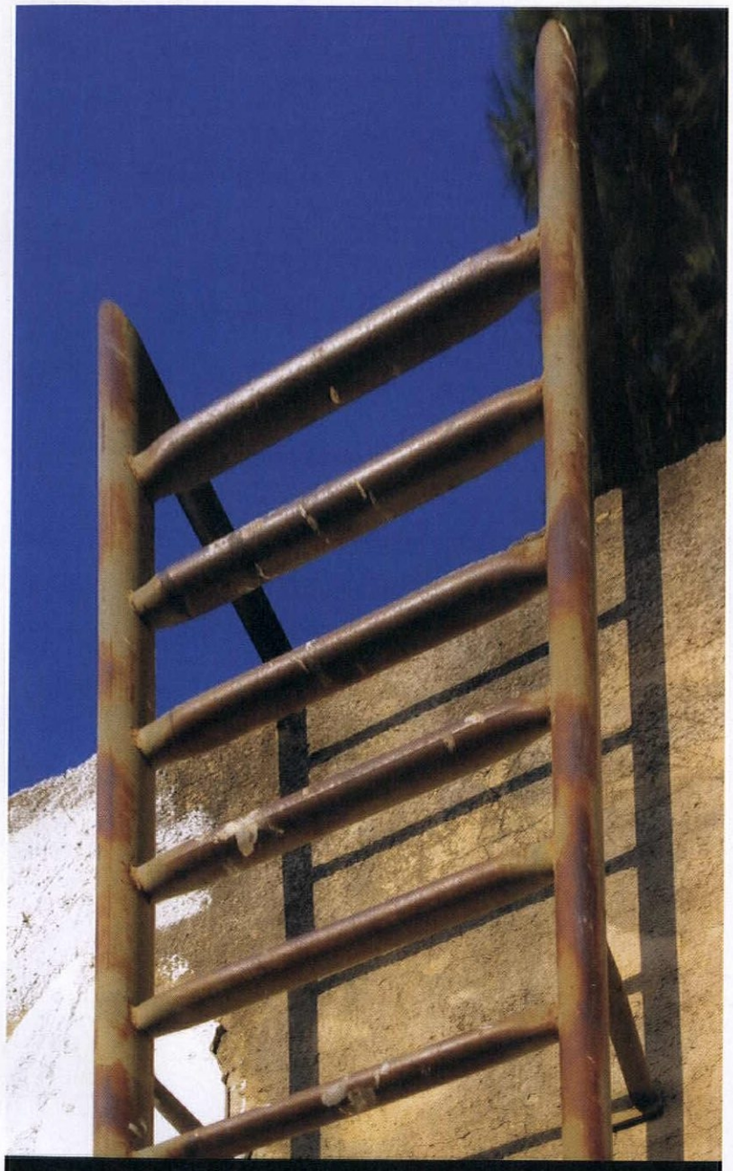

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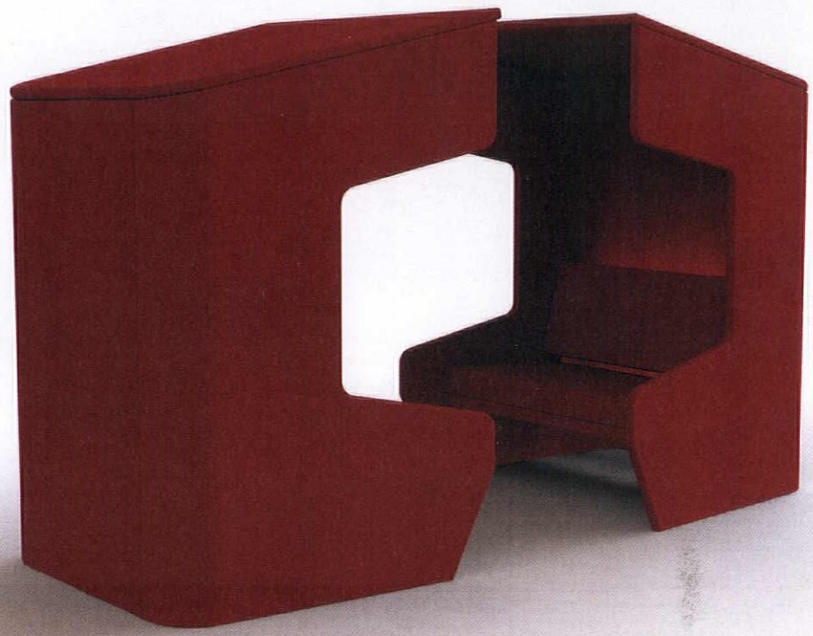
# in brief

## Products Worth Celebrating

**SLUMPED-GLASS PANELS,** open-plan seating, and a lighting system that transforms internal spaces into restorative environments were among the 73 winners of ARCHITECTURAL RECORD's coveted Product of the Year award. A jury of six professionals—three architects, two lighting designers, and one interiors director—rated hundreds of entries according to innovation, functionality, and aesthetics. The top scorers across the eight product categories are included in the magazine's December issue.

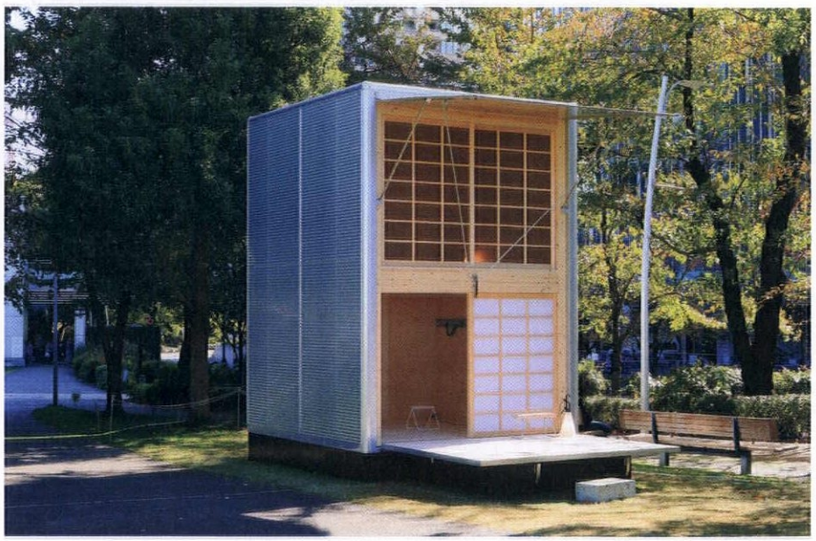
Control systems fared well this time around, as did products that conserve energy—and floor space. Eco-friendliness wasn't a separate category this year: With more manufacturers recognizing the ethical and economic benefits of going green, sustainable new products and materials have become increasingly common across the industry.

To see all of the 2015 Product of the Year winners, visit architecturalrecord.com/2015-record-products. —*Julie Taraska*



## Micro-Apartment Prototypes from Muji

**MUJI, THE JAPANESE PURVEYOR** known for its affordable housewares and minimalist aesthetic, has unveiled three prototype living spaces. Created by world-renowned product designers **Konstantin Grcic**, **Naoto Fukasawa**, and **Jasper Morrison**, the trio of prefabricated micro-homes, called Muji huts, debuted in November in



**WINNERS' CIRCLE** Architectural Record's 2015 Product of the Year honorees include laminated slump glass with SGX PVB substrate (top left) and BuzziSpace's cocoon-like BuzziHub Open (top right). Konstantin Grcic's prototype Muji apartment (right).

PHOTOGRAPHY: COURTESY MUJI (MUJI HUT)

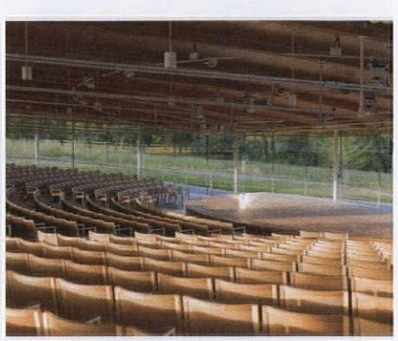
Tokyo. And, like the brand's famed microbead neck pillows, you will be able to transport them almost anywhere.

For his take on the miniature dwelling, Grcic designed a simple rectangular box with a compact footprint of about 120 square feet. The hut's walls comprise foam core sandwiched between aluminum sheets, much like those of an insulated food-delivery truck. Grcic's unit is by far the most spare of the huts, with just a simple sleeping loft. This spare scheme conveniently sidesteps the need for a building permit in Japan. "In its simplest form, it is just used as an extra, free space, a personal space," says Grcic.

Fukasawa and Morrison designed considerably roomier structures, with areas of 270 square feet and 377 square feet, respectively. "With this project," says Morrison, "I realized there was a chance to design such a house as a product rather than a one-off." The English designer gave his hut a cork facade, a shallow timber porch, and generous ceiling heights. Inside, the tiny wood-clad house is outfitted with a kitchenette, wood stove, and bathroom. Fukasawa's wood hut, meanwhile, features a pitched roof and generous glazing on the front facade.

The Muji hut isn't the brand's first foray into architecture. More than a decade ago, it launched an architecture-focused branch of the company. Since then, it has collaborated with Kengo Kuma on the design of two prefab homes; it also has designed a narrow, three-story house designed specifically for Japan's dense urban fabric.

Muji hopes to put the huts into production next year. —*Anna Fixsen*



**SIT ON IT** The rock-maple chair Thos. Moser designed for Grace Farms, a community center in Connecticut (above); some of the 730 chairs on site (right).

**(NOT) LIVING LARGE** Offering 377 square feet of interior space, the prototype micro-apartment that Jasper Morrison designed for Muji features a kitchenette, wood stove, and bathroom.

## Thos. Moser Unveils Custom Chairs at Grace Farms

**VISITORS TO GRACE FARMS,** a spiritually driven community center in New Canaan, Connecticut, that opened to the public in October [RECORD, November 2015], will likely land in its Sanctuary—an amphitheater at the top of its winding, river-like complex. There they will experience the craftsmanship of **Thos. Moser**, the Auburn, Maine-based manufacturer that designed and built the Sanctuary's 730 chairs.

**SANAA**, the Japanese architecture firm behind Grace Farms, envisioned a sequence of spaces that blended into the surrounding landscape; wood ceilings and flooring proved to be central to their vision. The interlocking rock-maple chairs sport varying leg heights to accommodate the sloping concrete floor in the glass-encased space, maximizing visibility for musical performances, screenings, and lectures. The company upholstered the chairs with Kvadrat's Tonus pattern.

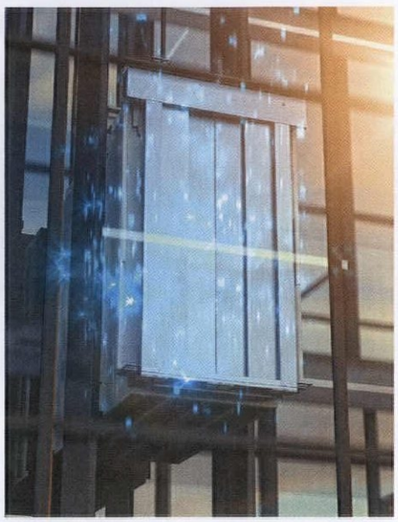
Thos. Moser launched the project in June 2014 and it took six months and several prototypes to arrive at the final design—the first in Thos. Moser's 43-year history to integrate cup holders. (They're mounted on the lower edge of the back panel.) Once shipped to the site, the chairs were permanently affixed to the amphitheater's floor.

According to Aaron Moser, director of Thos. Moser's contract division, the commission was both challenging and exciting for all involved. "As an American company whose furniture celebrates the beauty of wood," he says, "it's very fulfilling to provide seating in a setting where one can experience this beautiful material in its natural environment." —*Rebecca Seidel*

## ThyssenKrupp and Microsoft Improve Elevator Efficiency

**AT THE END** of October, **ThyssenKrupp** introduced MAX, a new cloud-based, smart monitoring system for the world's most-used means of transportation: the elevator. Powered by **Microsoft**'s Azure Internet of Things (IoT) suite of technology, the platform uses data collected from millions of ThyssenKrupp elevators to predict and rapidly respond to maintenance needs, improve ride efficiency, and better manage energy consumption.

The average height of the world's 50 tallest buildings has increased by 25 percent in just one decade, and since 2000 the number of high-rise buildings has tripled. Considering that more than one billion people use some 12 million elevators each day, wait times and out-of-service lifts can have a significant impact on productivity. A 2010 Columbia University study found that in New York City alone, office workers cumulatively spent more than 16 years waiting for elevators over the course of just one year. MAX aims to cut that downtime in half, by anticipating rush-hour surges and alerting building maintenance staff to potential issues, heading off breakdowns.



**UPS AND DOWNS** ThyssenKrupp's MAX smart-monitoring system uses Microsoft technology to reduce elevator repairs and improve dispatch efficency.

Using the Azure cloud platform, the system calculates the remaining lifetime of elevator components and sends service engineers preemptive repair notifications. MAX can also remotely monitor energy use to detect electrical and mechanical issues. For example, if the system detects a repetitive increase in door motor current, it will recommend maintenance during an engineer's next visit, or if it detects a sudden increase in current that is indicative of a damaged part, it will issue a call for immediate action.

"Collaborating on research and development with ThyssenKrupp was a learning process for both teams," says Microsoft's Sam George, partner and director of Azure, IoT. "Through a continued process of assessment and evaluation, the team not only applied the power of computation to enable predictive analytics but also laid the foundation for even more proactive energy and people-efficient services in the future."

ThyssenKrupp Elevator will pilot the MAX system in the U.S., Germany, and Spain, aiming to connect some 180,000 units in North America and Europe and, in two years, expand the platform worldwide. —*Miriam Sitz*

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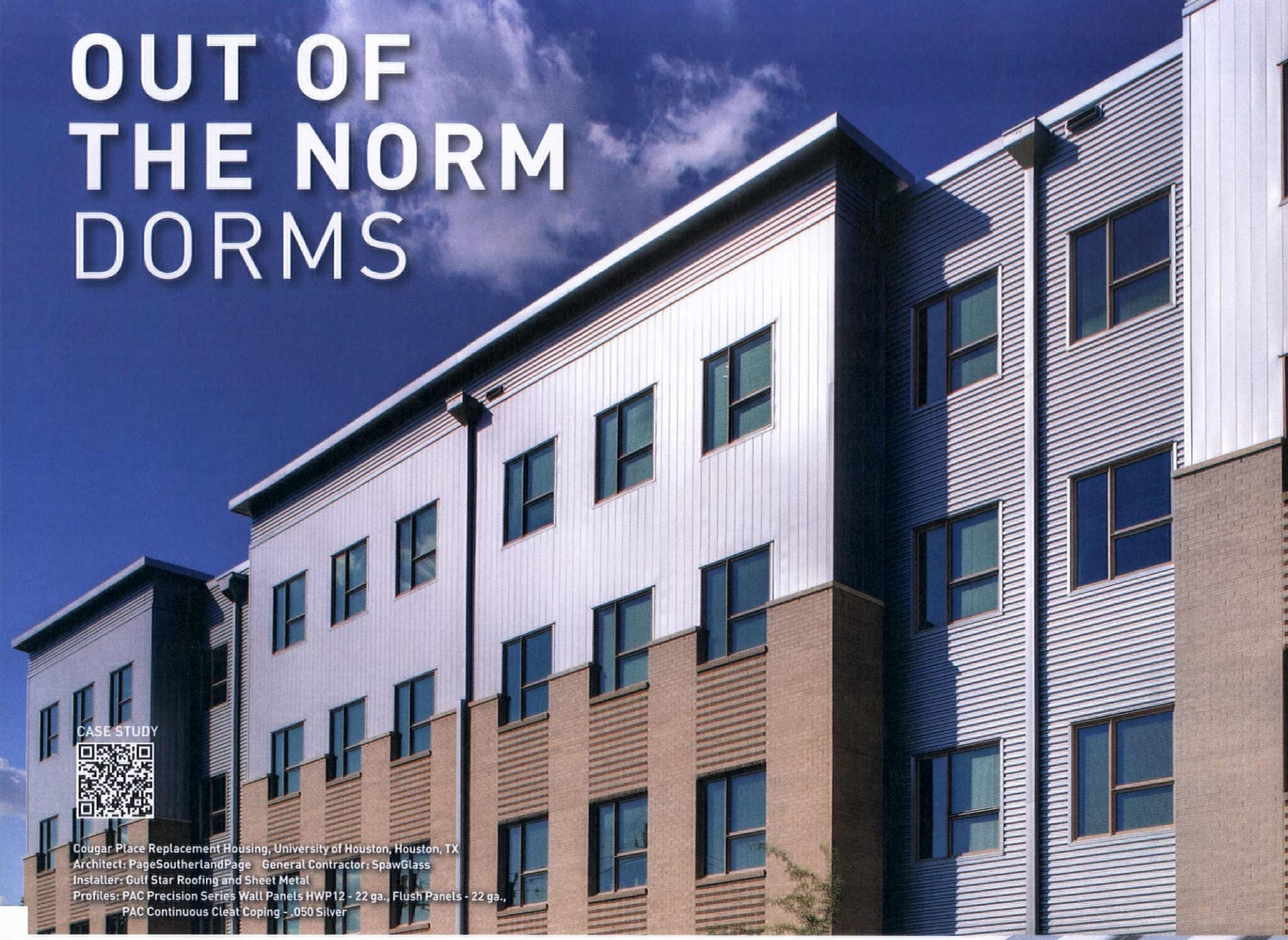
# OUT OF THE NORM DORMS



CASE STUDY

Cougar Place Replacement Housing, University of Houston, Houston, TX
Architect: PageSoutherlandPage General Contractor: SpawGlass
Installer: Gulf Star Roofing and Sheet Metal
Profiles: PAC Precision Series Wall Panels HWP12 - 22 ga., Flush Panels - 22 ga.,
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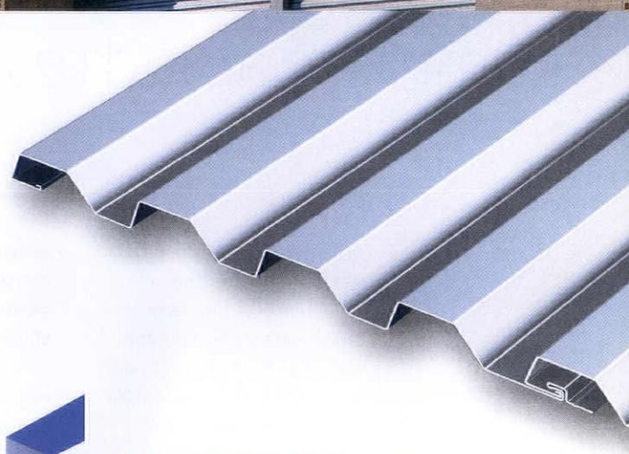

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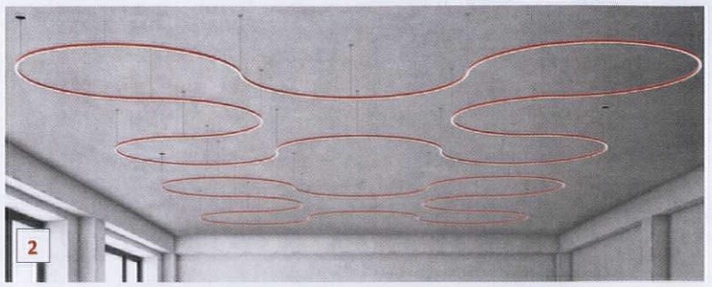


# Commercial and residential offerings of note

**1.**
## STILLA

**MANUFACTURER:** Infiniti
**PERFORMANCE:** This collection of chairs—and tables—are made of durable, fiberglass-filled polypropylene. The chairs feature a cutout for rainwater drainage.
**PRICE RANGE: $–$$**
**APPLICATIONS:** Suited for exterior and interior contract, commercial, institutional, and residential applications.
**MAGNUSONGROUP.COM**
**(SNAP #200)**

**2.**
## MOONRING

**MANUFACTURER:**
Architectural Lighting Works
**PERFORMANCE:** This flexible LED source woven within a 1-inch housing can be suspended or surface-mounted and is available in color temperatures of 3,000K, 3,500K, and 4,000K.
**PRICE RANGE: $**
**APPLICATIONS:** May be used individually or together to form curvilinear configurations for commercial interiors.
**ALWUSA.COM**
**(SNAP #201)**

**3.**
## APEX72 ELECTRIC WALL HEATER

**MANUFACTURER:** Cadet Heat
**PERFORMANCE:** Mounted at a minimum height of 72 inches, this heater saves up to 9 SF of floor space; it also requires cleaning 75% less often than floor models need. Used with an electronic wall-mount thermostat.
**PRICE RANGE: $**
**APPLICATIONS:** Ideal for retrofits or renovations in multifamily properties.
**CADETHEAT.COM**
**(SNAP #202)**

**4.**
## SONOVENT ACOUSTICAL FLAP

**MANUFACTURER:** Renson
**PERFORMANCE:** This passive ventilation and sound-abatement system provides fresh-air intake while reducing noise by up to 56 db. May be glazed in or installed at transom.
**PRICE RANGE: $$–$$$**
**APPLICATIONS:** Comes in four sizes and configuations; suited to residential and commercial projects.
**RENSON.US**
**(SNAP #203)**

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

= ECO-FRIENDLY ATTRIBUTES

5.
### AXIS LITTER & RECYCLING RECEPTACLES

**MANUFACTURER:** Forms+Surfaces
**PERFORMANCE:** This 32-gallon unit can be used in tandem (as pictured) or alone. Stainless steel, with corrosion-resistant aluminum lids and bases.
**PRICE RANGE:** $$$
**APPLICATIONS:** Transit hubs, public spaces, and corporate and hospitality settings.
**FORMS-SURFACES.COM**
**(SNAP #204)**

6.
### SLIDO DESIGN 80-M DOOR

**MANUFACTURER:** Häfele
**PERFORMANCE:** With hidden tracks and fittings, this system allows sliding wall-mount doors to seemingly float across openings. Works with doors weighing less than 176 pounds.
**PRICE RANGE:** $$
**APPLICATIONS:** Suitable for residential or commercial applications.
**HAFELE.COM**
**(SNAP #205)**

7.
### LEDGE

**MANUFACTURER:** Rich Brilliant Willing
**PERFORMANCE:** This 700-lumen LED sconce has a solid-cast aluminum body, integrated heat sink, and opaque PMMA acrylic lens.
**PRICE RANGE:** $
**APPLICATIONS:** Can be mounted with the light facing up or down. Ideal for bathrooms, bedrooms, commercial hallways, and hotel lobbies.
**RICHBRILLIANTWILLING.COM**
**(SNAP #206)**

8.
### OMNISTAT 3 HOSPITALITY THERMOSTAT

**MANUFACTURER:** Leviton
**PERFORMANCE:** This retrofit solution can help hoteliers meet California Title 24 2013 and AHSRAE 90.1 2010 requirements. Five onboard relays support a majority of HVAC systems.
**PRICE RANGE:** $
**APPLICATIONS:** Works with occupancy and motion sensors.
**LEVITON.COM**
**(SNAP #207)**

# Rene Gonzalez: Triple Play

*Principal, Rene Gonzalez Architect, Miami*

### WHAT WAS YOUR BRIEF FROM THE CLIENTS FOR THIS JEWELRY BOUTIQUE?

The clients asked us to create a space that encapsulated their Alchemist brand in a new way. We considered the solid, elemental nature of jewelry and translated that into a journey of discovery into the Earth's core.

### TELL US ABOUT THE MATERIALS THAT YOU CHOSE FOR THE WALLS.

The walls are Costa Esmeralda granite, whose surfaces transition from polished to sandblasted to bush-hammered as you move toward the rear of the store. The walls are also teased with reflective, rose-gold mirrors [supplied by Coconut Grove Glass in Florida] to contrast the stone.

### WHICH LIGHTS DID YOU SPECIFY?

The recessed lighting in the jewelry cases is Contrast Lighting T-4000 while the track lighting in the ceiling coves is Nora Lighting-NTH-107 [right]. I used Juno's T-8 fluorescent lights behind the latex ceiling, Illumni 1 LEDs for the jewelry cases, and Futura Lighting's LED Ribbon tracks for the exterior.

### WHAT ABOUT THE UNUSUAL LATEX CEILING?

Made by Barrisol, it is essentially stretched latex attached to clips and backlit with a series of fluorescent lights. We wanted the ceiling and floor to read as monolithic so that the walls, custom jewelry cases, and jewelry would stand out.

### WHAT WERE THE TWO BIGGEST CHALLENGES OF DESIGNING THE STORE?

The first was finding the perfect rose-gold material. We looked into many companies before getting the right color. The second challenge was designing the recessed jewelry cases [left], which we had manufactured by Rick Tavares of Marine Design in West Park, Florida.

### WHAT DO YOU SEE AS THE NEXT BIG THING IN RETAIL DESIGN?

An emphasis on client experience in both design and human interaction. Now that nearly everything is available online, the retail store is the primary space where one can physically embody a brand to create a differential through design.

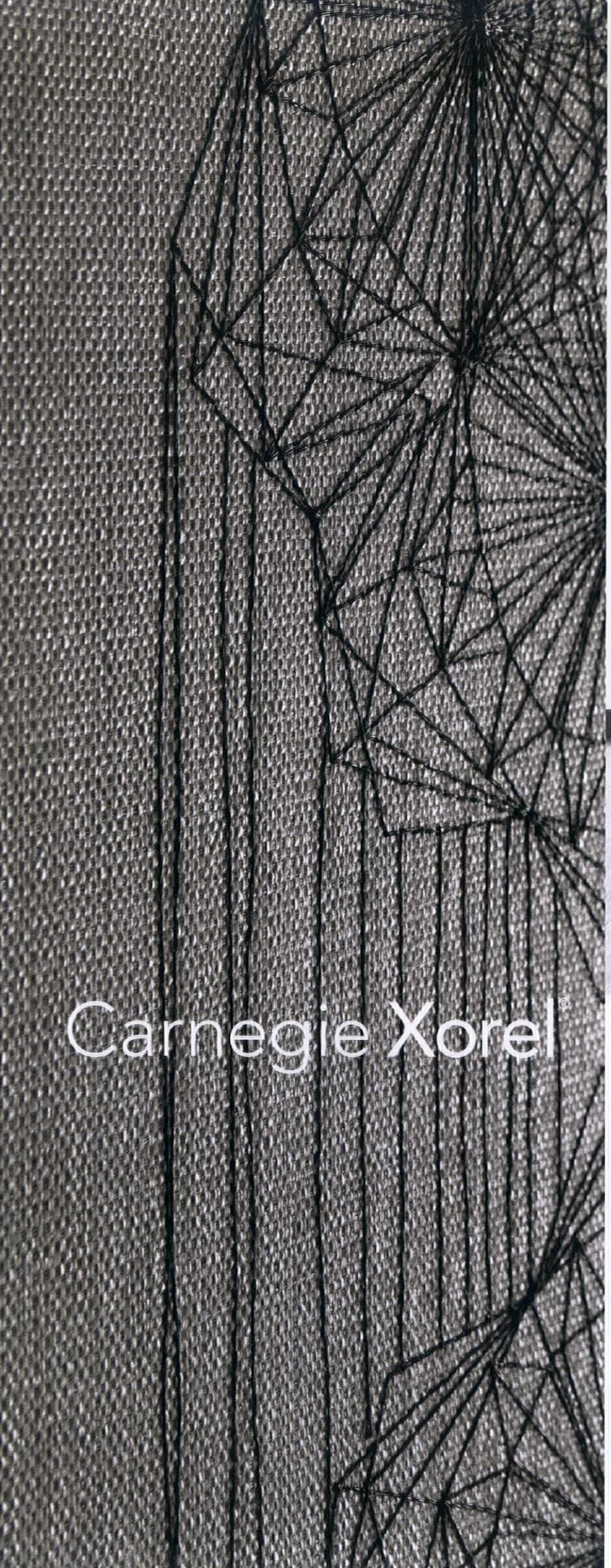
*Based in Miami,* **RENE GONZALEZ** *founded his award-winning firm in 1997. Specializing in cultural, retail, and residential projects, he is known for the creative use of materials and his skill at blurring constructed and natural environments.*

**12**

The different sizes of Costa Esmeralda granite panels used in the Alchemist jewelry store.

*The architect stands inside the 1,000-square-foot Alchemist jewelry store in Miami's Design District. It is the third store—but first jewelry outlet— he has created for the high-end clothing and lifestyle brand.*

PHOTOGRAPHY: STEPHAN GOETTLICHER



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SNAP 35

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**SNAP 14**

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## COMBATANT GENTLEMEN SHOWROOM AND HEADQUARTERS, IRVINE, CALIFORNIA

# Well-Suited

**PROBLEM:** *Incorporate a brick-and-mortar retail space in an online merchant's new corporate headquarters.*
**SOLUTION:** *Highlight the brand's personality and production efforts to unite the office's different parts.*

**WHEN EXPLOSIVE** growth drove Combatant Gentlemen to exchange its original 1,000-square-foot space for a location 10 times the size, the e-retailer decided its new corporate home would also spotlight its products' craftsmanship. Global architectural firm IA Interior Architects helped the Irvine, California–based company realize its vision. Opened in May, the office houses Combatant's full on- and offline operations, from engineering to customer service, along with a retail showroom and workspace for the company's designers and tailors.

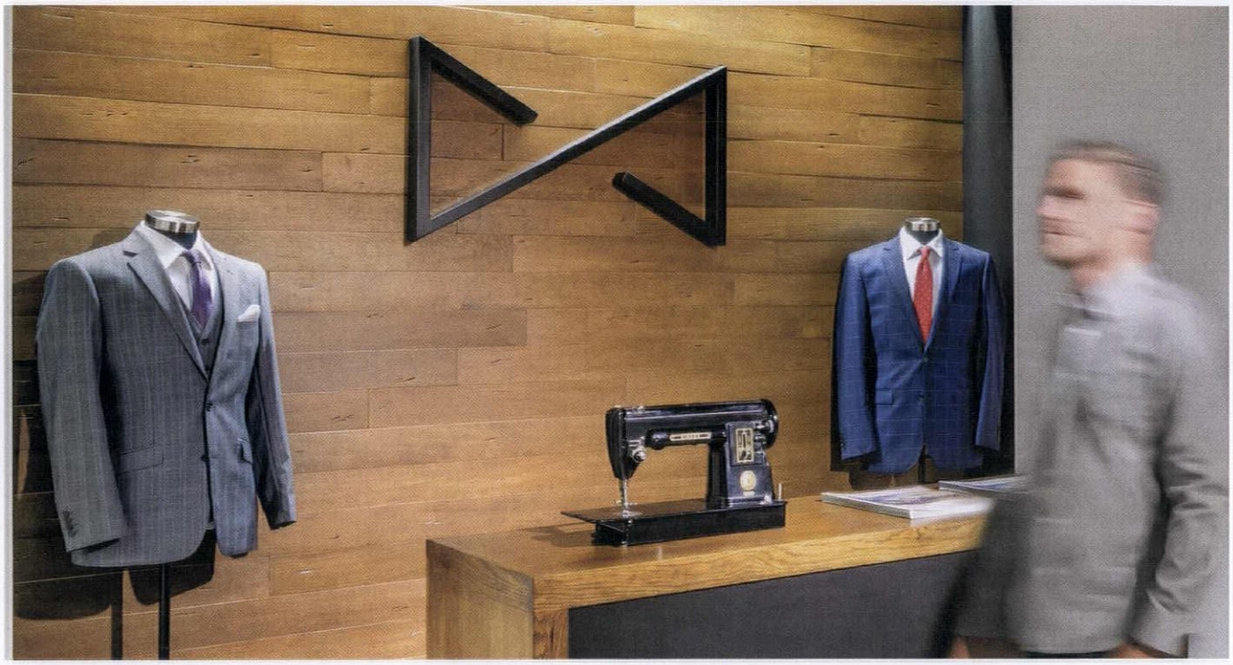
"IA determined that the space should be classic and very 'well-dressed,'" says Melissa Underwood, the project's lead designer. "We emphasized dark hues and industrial materials to create a masculine feel." Among the choices was rustic wood used on an accent

**SHARP DRESSER** Combatant Gentlemen included a retail showroom, the Haberdashery, in its new 10,000-square-foot corporate office.

wall in the entry and for the suite's exposed ceilings and product displays. Finishes, such as a floor surfacing that mimics smoothed concrete, added to the take. Subtle corporate branding—like marketing images and wall displays of popular customer fabrics—appears throughout, reminding employees and visitors that this is indeed a place of business.

Aside from investors and business partners, some of those visitors are customers for the Haberdashery, Combatant's first retail showroom. There, members of the public can browse the brand's collection of shirts, suits, trousers, and accessories, all emphasized by WAC Lighting spotlights and downlights. Visitors can also enjoy a beer and watch a game while waiting to be custom-fitted. But the showroom's most popular feature is its Magic Mirror. The interactive, RFID-enabled display lets customers try on the company's clothes virtually, providing product details, prices, and suggestions for other complementary Combatant products.

Smart design wasn't limited to the public-facing parts of the space. The IA team added full-height-and-width butt-joint glazing to the areas dedicated to back-end operations, including on-site tailoring and tech work. The choice, explains Underwood, creates "a bit of privacy and noise isolation while providing a full visual connection with the open office."



Wired bench-tops allow team members to videoconference with customers, easily clearing up any sizing questions.

Another amenity in the open office—the multiuse bar lounge with two kegerators—makes hosting brand events convenient while also providing employees with a spot for kicking back: a perfect encapsulation of the Combatant space's work/play vibe.

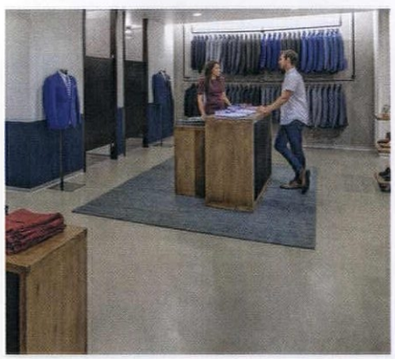
| ARCHITECTS | MANUFACTURER | PERFORMANCE |
|---|---|---|
| IA Interior Architects | SDC Millworks Inc. | Quarter-sawn, distressed white oak. |
| **TYPE** | **APPLICATIONS** | **PRICE RANGE** |
| Showroom & HQ | Custom case and millwork for commercial or residential projects. | $$ |
| **PRODUCT** | | **SDCMILLWORKS.COM (SNAP #208)** |
| Custom wood accent wall and retail displays | | |

**ALL SEWN UP**
At the showroom's entry is an accent wall featuring the retailer's bow-tie logo. An antique Singer sewing machine underscores the company's in-house production of the garments.

## IN THIS PROJECT

= ECO-FRIENDLY ATTRIBUTES

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



### SELF-LEVELING TOPPING

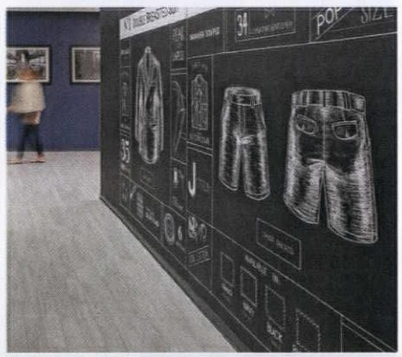
**MANUFACTURER:** Combimix
**PERFORMANCE:** Self-leveling, cement-based topping that uses calcium aluminate technology to look like exposed concrete without the cost or prep. Is mold-, mildew-, and bacteria-resistant.
**PRICE RANGE:** $–$$
**APPLICATIONS:** Installs over all grade levels of concrete and directly over adhesive residue and gypsum-based surfaces.
**COMBIMIX.COM**
**(SNAP #209)**

### WANDERLUST CARPET

**MANUFACTURER:** Bentley
**PERFORMANCE:** This modular flooring, made with stain- and crush-resistant Antron Lumena type 6,6 nylon fiber, is offered as a 24-inch square and in an 18-by-36-inch size.
**PRICE RANGE:** $$
**APPLICATIONS:** Commercial interior projects.
**BENTLEYMILLS.COM**
**(SNAP #210)**

### SPACIA LVT FLOORING

**MANUFACTURER:** Mannington Commercial
**PERFORMANCE:** Featuring a Quantum Guard HP wear layer for increased durability and slip resistance, this flooring comes in a broad range of sizes and looks, including wood, stone, and abstract visuals.
**PRICE RANGE:** $$
**APPLICATIONS:** Suited to commercial environments.
**MANNINGTONCOMMERCIAL.COM**
**(SNAP #211)**



### CHALKBOARD PAINT

**MANUFACTURER:** Benjamin Moore
**PERFORMANCE:** This zero-VOC, 100% acrylic latex paint with an eggshell finish is quick-drying and easy to apply.
**PRICE RANGE:** $$
**APPLICATIONS:** Turns any interior surface into an easy-to-clean chalkboard. Available in any of the company's offered colors.
**BENJAMINMOORE.COM**
**(SNAP #212)**

PHOTOGRAPHY: COURTESY IA INTERIOR ARCHITECTS

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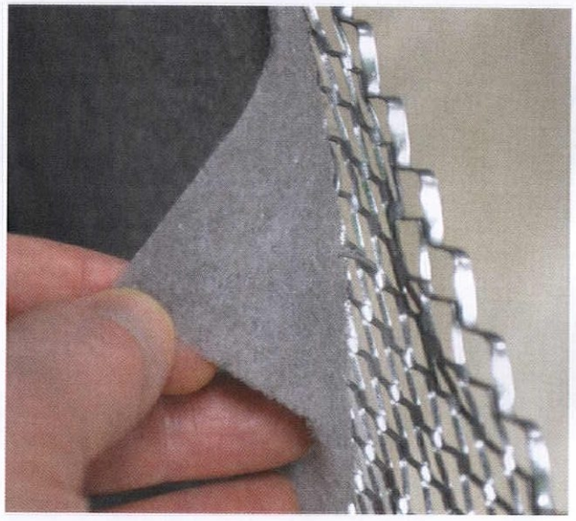

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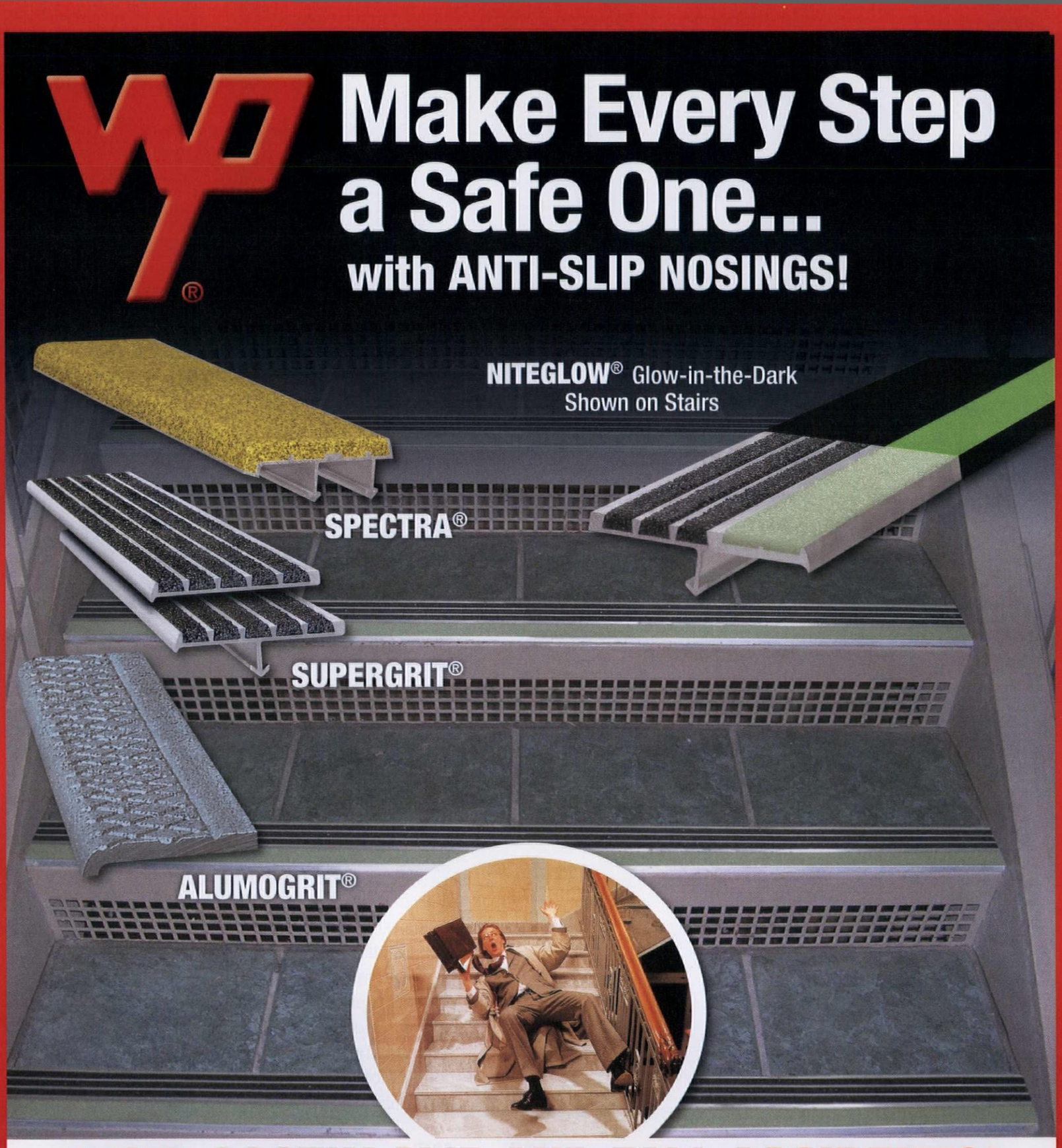


## AVOID COSTLY SLIP AND FALL ACCIDENTS!

SNAP 178

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**APOTHECARY CHIC** Aesop's Silver Lake store in Los Angeles (top and right) utilizes a mixture of wood, metal, and stone. Features include brass fixtures, ceilings of reclaimed Douglas fir, and black basalt floors and counters.

# One of a Kind

*Aesop's ethos? Make each store relevant to its community by drawing upon local history, materials, and design talent.*

BY SAM LUBELL

**IN A RETAIL REALM WHERE UNIFORMITY REIGNS,** Aesop is a welcome antidote. Founded in 1987 in Melbourne, the Australian skincare brand is known for hiring young firms to create stand-alone stores reflective of each location's materials and identity.

According to an Aesop spokesman, the company "has always been interested in contributing to neighborhoods, not assaulting them with a global formula." Yet the brand's 100-plus stores all share certain elements, including demonstration sinks, subtle lighting, and a tea service. But within these parameters, the company allows designers extensive leeway.

"The brand is smart to give designers enough room to coax something new out of whatever environment is being done," says **John Randolph**, whose namesake company designed Aesop's Silver Lake store in Los Angeles. "[Founder] Dennis Paphitis has quite an eye for detail," adds **Architecture Outfit** principal Thaddeus Briner, who flew to the company's Australian headquarters for a brainstorming session before embarking on New York's Madison Avenue store. "He and the team

PHOTOGRAPHY: COURTESY AESOP

**PAST AND PRESENT** The architects behind the Madison Avenue shop integrated well-worn details discovered during renovation, such as the chipped mosaic floor (above). Aesop's modern wares contrast with old peeling paint (left). The outsize entryway window draws passers-by, who can take in the store at a glance (far left).

really engage with what you bring to the table," he continues. "It's just like talking to another architect."

### AESOP SILVER LAKE

Randolph's Silver Lake store is quirky, sophisticated, and "a little rough-and-tumble," as the designer puts it. Its inspirations range from L.A.'s prehistoric geology to the building's physical structure, which is resplendent with weathered-wood ceilings and industrial-steel fittings.

Randolph aimed for the store to be "quiet, elegant, and not too fussy." To that end, the firm specified ceilings and shelves custom-made from reclaimed Douglas fir. It also tapped fabricator **Oldani Art Studio** to create black-steel shelf brackets, display ledges, and tube-shaped lighting fixtures (the latter fitted with **Aion LED**'s A-Track 8000 Series LED strips). A hanging beam contains plumbing for the angled sinks, which feature angle-stop cast-brass pieces from **Chicago Faucets**. These sinks, as well as the counters and tile paving, are made from honed black basalt supplied by **Coverall Stone**.

Randolph coated the store's gypsum-board cabinet inserts in limewash to match the colors on Aesop's label. In homage to local son James Turrell, the designer also carved out a deep, circular skylight that provides natural illumination as well as showcases the sunlight's changing qualities throughout the day.

"If a space looks simple and effortless," Randolph asserts, "then you've been successful."

### AESOP MADISON AVENUE

With its time-worn floor tiles, cracked plaster, and peeling paint, Aesop's Madison Avenue store provides a stunning contrast to its rarefied neighbors. Architecture Outfit originally planned for a more plush and upscale outlet, given the location. But when AO principals Briner and Marta Sanders began demolishing the space, formerly an old shoe store and lobby, they decided it would be best to preserve what they found.

"It was like an archaeological dig," says Briner of the process, which exposed layers of marble flooring, mosaic panels, and messages employees had scribbled

PHOTOGRAPHY: COURTESY AESOP (TOP); TY COLE

**LIGHT FANTASTIC**
At Aesop Wynwood, sunlight bounces off dichroic glass to add color (top), while granite boulders bring nature inside (left). The store's island sink is simple and sculptural (bottom).

on walls. Aware of the new plan's irony, the firm carefully considered how to present its concept to Paphitis. The founder eventually approved the idea, says Briner, but only after seeing the beautiful ruins that lay beneath.

To offset the messiness of the recovered elements, AO opted for a simple palette of cherry wood planks and blackened steel. **Digifab** milled and fabricated the materials into shelves, a sales desk, and the entry door. **Janmar** Series 801 spotlights, **Logic 5** LED downlights, and **Bartco Lighting**'s Linear T5 fluorescent uplights were chosen for illumination. Removing the drop ceiling allowed the firm to reestablish the space's original height, exposing a large air duct in the process. AO also sourced an antique sink, found—fittingly—at a thrift store.

## AESOP WYNWOOD

The brand's quietly exuberant Wynwood site merges Miami flash with Aesop minimalism. "The idea was to combine these two worlds into one little store," says Frida Escobedo of her effort, located in a former industrial neighborhood now known for its art scene.

An artist herself, Escobedo injected color into the space by installing tall panes of dichroic glass at the store's rear. When sunlight from the large front windows and the skylight filter through the store, it refracts off the glass's glazing, producing vivid, changing hues—an homage to the region's constantly shifting illumination.

Escobedo alluded to the area's rugged past with oxidized-metal millwork—shelves, counters, and a demonstration sink—by **M2 Interior Design**. To bring the natural world inside, she added an installation of Manhattan granite boulders, quarried in New York by **Skyview Stone**. Polished concrete floors, **ConTech Lighting**'s LED spotlights, and drywall painted a warm gray complete the effect, their combined smooth textures providing contrast with the space's "very raw and basic" elements, says Escobedo.

As with many Aesop locations, the Wynwood site features a masterful complexity beneath its minimalist surface. This depth is created using art, design, and sense of place to localize a global brand—and to make Aesop relevant wherever its wares are sold. ■

PHOTOGRAPHY: COURTESY AESOP

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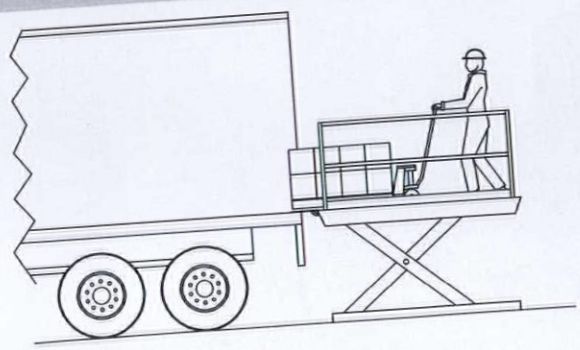

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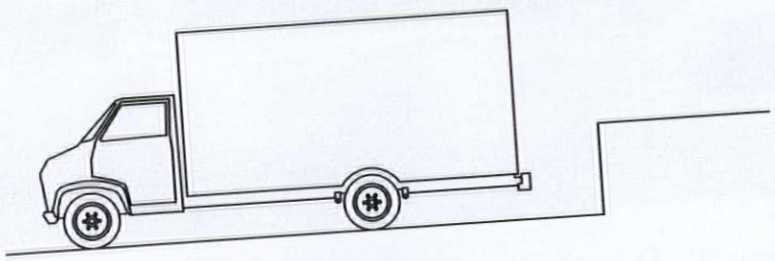

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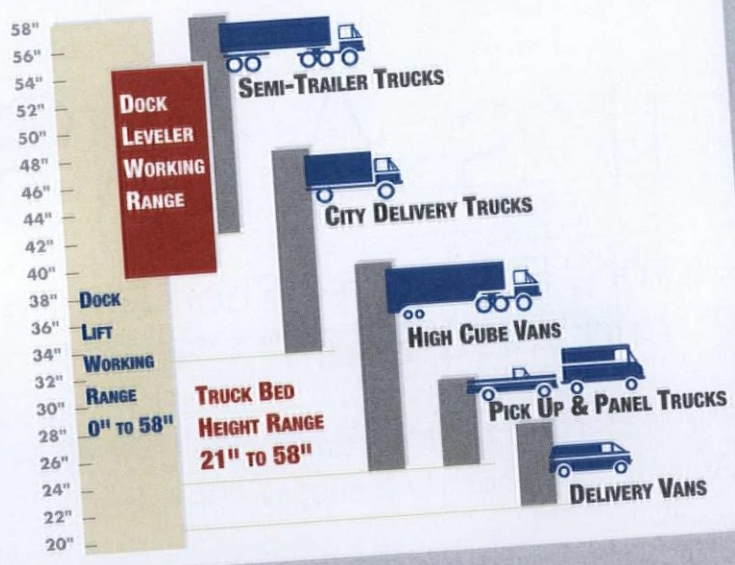


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# A Handle on Infectious Disease

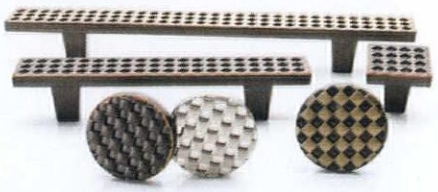
**ACCORDING TO THE** Centers for Disease Control, one in 25 in-patients contracts an infection related to a hospital stay, and contact with contaminated surfaces is the worst culprit. Diligent hand-washing by caregivers and visitors can reduce the spread of infection, as can the use of copper door hardware with bactericidal properties.

Copper, it turns out, is the only solid-surfacing material recognized by the U.S. Environmental Protection Agency as capable of continuously killing greater than 99.9 percent of the bacteria it is exposed to—including *E. coli* and MRSA—within two hours. CuVerro, a Louisville-based producer of medical-grade metal alloys, partners with manufacturers such as Elkay, Ingersoll Rand, and Rocky Mountain Hardware to create copper hardware for clinical use. Wall switches, grab bars, cabinet pulls, and door and toilet-flush levers are only a few of the items that the companies have fabricated with the 100 percent recyclable material, which also has the benefit of remaining effective even after repeated wet and dry abrasion.

It's a choice that can have positive payback. Scott Adams, CEO of Pullman Regional Hospital in Washington state, notes, "Installing copper in 10 percent of surfaces in an ICU can cut hospital acquired infections by 58 percent." And that's serious business when it comes to healthcare. —*Lisa Caldwell*

**ADDED LEVERAGE** Created by HOK Product Design in collaboration with Rocky Mountain Hardware, the Verdura collection of escutcheons, levers, and grips are handcast using CuVerro, a bactericidal copper.

**PHOTOGRAPHY:** COURTESY ROCKY MOUNTAIN HARDWARE



### ARGYLE

**MANUFACTURER:** DuVerre
**APPLICATIONS:** Designed by Gina Lubin, these LEED-eligible cabinet knobs and handles in recycled aluminum feature a raised grid of small diamonds that improve grip.
**PERFORMANCE:** For commercial or residential settings, they're offered in antique-brass, oil-rubbed bronze, and satin-nickel finishes.
**PRICE RANGE:** $$
**DUVERRE.COM**
**(SNAP #213)**

### FURNITURE HANDLE

**MANUFACTURER:** Buster + Punch
**APPLICATIONS:** Back plates and knurled knobs of different materials and finishes can be combined to achieve a wide range of designs.
**PERFORMANCE:** Precisely machined of solid bronze, steel, or brass, these pieces are suitable for heavy-duty use.
**PRICE RANGE:** $$$
**BUSTERANDPUNCH.COM**
**(SNAP #214)**

### ZANZIBAR COLLECTION

**MANUFACTURER:** Atlas Homewares
**APPLICATIONS:** Designed for damp locations, these chrome-plated armatures are wrapped with water-resistant faux leather in spirited colors.
**PERFORMANCE:** With pieces ranging from 1⅞-inch knobs to 20-inch appliance pulls, the collection can outfit doors and drawers small or large.
**PRICE RANGE:** $$
**ATLASHOMEWARES.COM**
**(SNAP #215)**

### AMORA ROYALE

**MANUFACTURER:** Hardware Renaissance
**APPLICATIONS:** Sand-cast in solid white bronze, this entry set comes in a choice of 15 finishes with semiprecious-stone inlay.
**PERFORMANCE:** Offered with mortise, deadbolt, and multipoint entry locks. Can be customized for hospitality use. Contains a minimum of 90% recycled content and is LEED-eligible.
**PRICE RANGE:** $$
**HARDWARERENAISSANCE.COM**
**(SNAP #216)**

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

= ECO-FRIENDLY ATTRIBUTES

# Smart Locks Key In

**WITH APPLICATIONS** that span the hospitality, housing, and commercial markets, smart locks are opening new doors.

An early entrant to the field, **August** has significantly upgraded with a new platform, August Access, which allows controlled entry to authorized third parties, such as shipping and delivery services. The Yves Béhar–designed device, which is operated via smartphone and aimed toward the design-conscious user, now also features optional keypad and doorbell-camera modules.

Nucli, by **Westinghouse**, is geared toward consumers who are more attuned to technology than aesthetics. Access is provided via smartphone, PIN pad, or fingerprint recognition. A motion-activated camera captures 170-degree views of the exterior and can send the images to other devices. Audio features include a noise-canceling microphone and speaker that permit visitors to leave voice messages. The digital doorbell can also play any MP3 track. —*LC*

**SAFE HOUSE**
The Nucli smart lock by Westinghouse (above) offers audiovisual options. August's lock (left) has a new online platform, as well as add-ons like this doorbell camera (far left).

## SNAP BACK

**JOHN CLAGETT**
*Principal*
*John Clagett Architect*
*Englewood, NJ*

"One of my architecture-school instructors said, 'Buy the finest door hardware possible—it's the one part of your building the client will touch.' This advice holds true, as a well-crafted lockset brings delight and a sense of security to the hand and mind."

## SNAP FACT

**$3.6 BILLION**
The estimated global market for **smart locks** in 2019.

**SOURCE:** NEXTMARKET

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SNAP 52

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**SNAP 36**

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# A Fifth Facade

**RALEIGH-BASED ARCHITECT** Chad Parker had a major challenge on his hands: to transform a 1963 bunker-like, downtown structure into a light-infused showroom for Alfred Williams & Company, the exclusive dealer of Herman Miller furnishings in Nashville and both North and South Carolina.

"We wanted the outside of the building to reflect the essence of what Herman Miller and Alfred Williams stand for—metal, glass, and wood," says Parker, now a principal and managing director at Raleigh's Gensler office.

To accomplish this lofty goal, the architect employed a Kawneer storefront system of painted aluminum, with PPG's Solarban Starphire low-E glass and ipé wood milled by a local supplier.

Today the sparkling interiors are visible through a transparent glass storefront, achieving what Parker calls a fifth facade for the formerly opaque structure while articulating the spirit of Midcentury Modern design for which Herman Miller and Alfred Williams are known. And in the end, Parker says, "The companies appreciated the simplicity of the palette."

*—J. Michael Welton*

**MODERN CLASSIC** Architect Chad Parker transformed the facade of the Alfred Williams & Company showroom, in Raleigh, employing a combination of aluminum, low-E glass, and ipé.

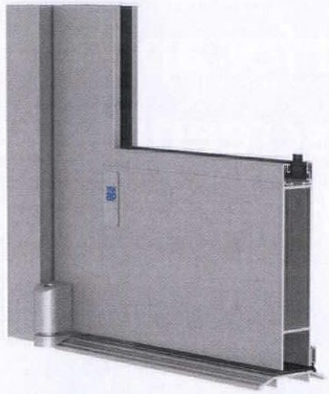
PHOTOGRAPHY: COURTESY ALFRED WILLIAMS & CO

### ENTICE PREMIUM STOREFRONT

**MANUFACTURER:** C.R. Laurence
**PERFORMANCE:** Full-framed performance with the ability to support door-handle hardware on 1-inch insulating glass panels, using through-glass fittings.
**PRICE RANGE:** $$–$$$
**APPLICATIONS:** Can accommodate all high solar and energy-efficient glass options with a vertical stile width of 1⅛ inch.
**CRLAURENCE.COM**
**(SNAP #217)**

### 1201 SWING DOOR OPERATOR

**MANUFACTURER:** Tormax
**PERFORMANCE:** Dual-purpose operator with heavy-duty mechanics, meeting ANSI standards A156.10 and 156.19.
**PRICE RANGE:** $$
**APPLICATIONS:** The 1201 is a non-handed power-open, spring-close mechanical operator capable of swinging interior and exterior doors weighing up to 550 pounds.
**TORMAXUSA.COM**
**(SNAP #218)**



### PROTEK 35 HL/50 HL DOORS

**MANUFACTURER:** YKK AP
**PERFORMANCE:** These medium- and wide-stile doors withstand large and small missile impact up to 50 PSF and meet Florida's High Velocity Hurricane Zone standards. Each has a single-point hook lock, reinforced tubular frame, and ADA-compliant air threshold.
**PRICE RANGE:** $–$$
**APPLICATIONS:** High-traffic storefronts and low-profile buildings where hurricane-impact performance and cost are priorities.
**YKKAP.COM/COMMERCIAL**
**(SNAP #219)**

### 3552 ALUMINUM FULL VIEW DOORS

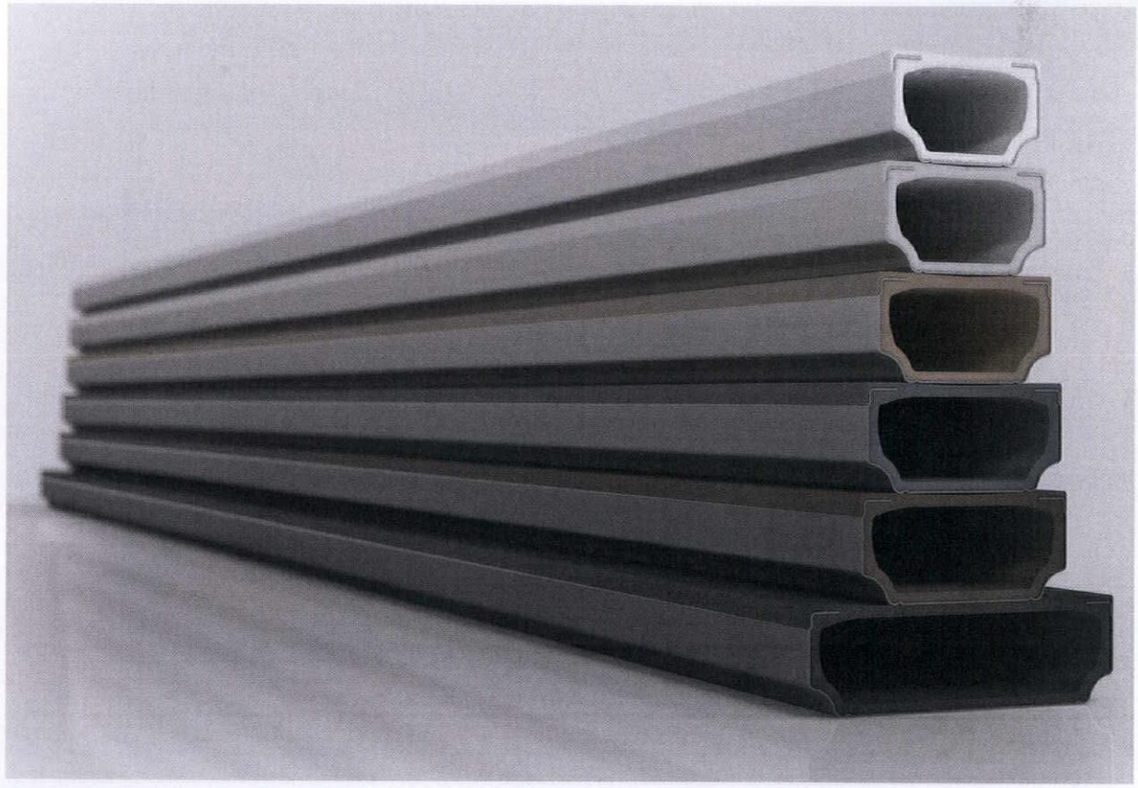
**MANUFACTURER:** Amarr
**PERFORMANCE:** Constructed of 2-inch-thick extruded-aluminum rails and stiles, the doors can be fitted with full-view glass options or solid aluminum, perforated, or louvered ventilation panels.
**PRICE RANGE:** $$
**APPLICATIONS:** Automotive showrooms/repair centers, service stations, car washes, firehouses, restaurants, and sports complexes.
**AMARR.COM/COMMERCIAL**
**(SNAP #220)**

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

# Code Cracking

**FEDERAL AND** U-value codes are driving innovations in storefront and entry design, with glazing companies rushing to create products that meet the new stringent standards for heat loss. Double-pane glass has advanced about as far as possible, so the industry has been developing new solutions, including thermally broken, fully framed doors with handle hardware mounted onto wide vertical door stiles. **C.R. Laurence**'s Entice system for glass doors (see products at top) features a heavy-duty cladding system that achieves U-factors as low as 0.33—well below the state-mandated code in California requiring a 0.36 rating and the federal code that calls for a 0.38 rating.

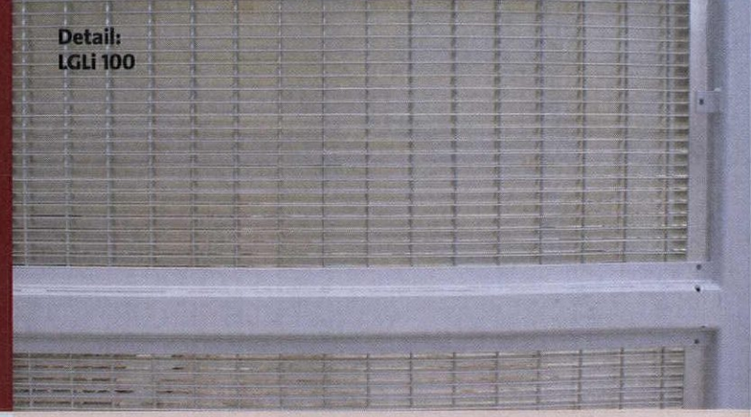
**Technoform Glass Insulation**'s TGI-Spacer M is another example of improved entry glazing technology. A hybrid thermal break made of polypropylene and low-conductivity stainless steel, it "offers a couple of points better U-value than aluminum," says Dheeraj Corepall, Technoform's product manager. Utilized in Miller Hull's Bullitt Center in Seattle—a building that achieved the rigorous environmental goals of the Living Building Challenge—the TGI spacer keeps the glass warmer, reducing condensation and heat transfer between the in- and outdoors.—*JMW*

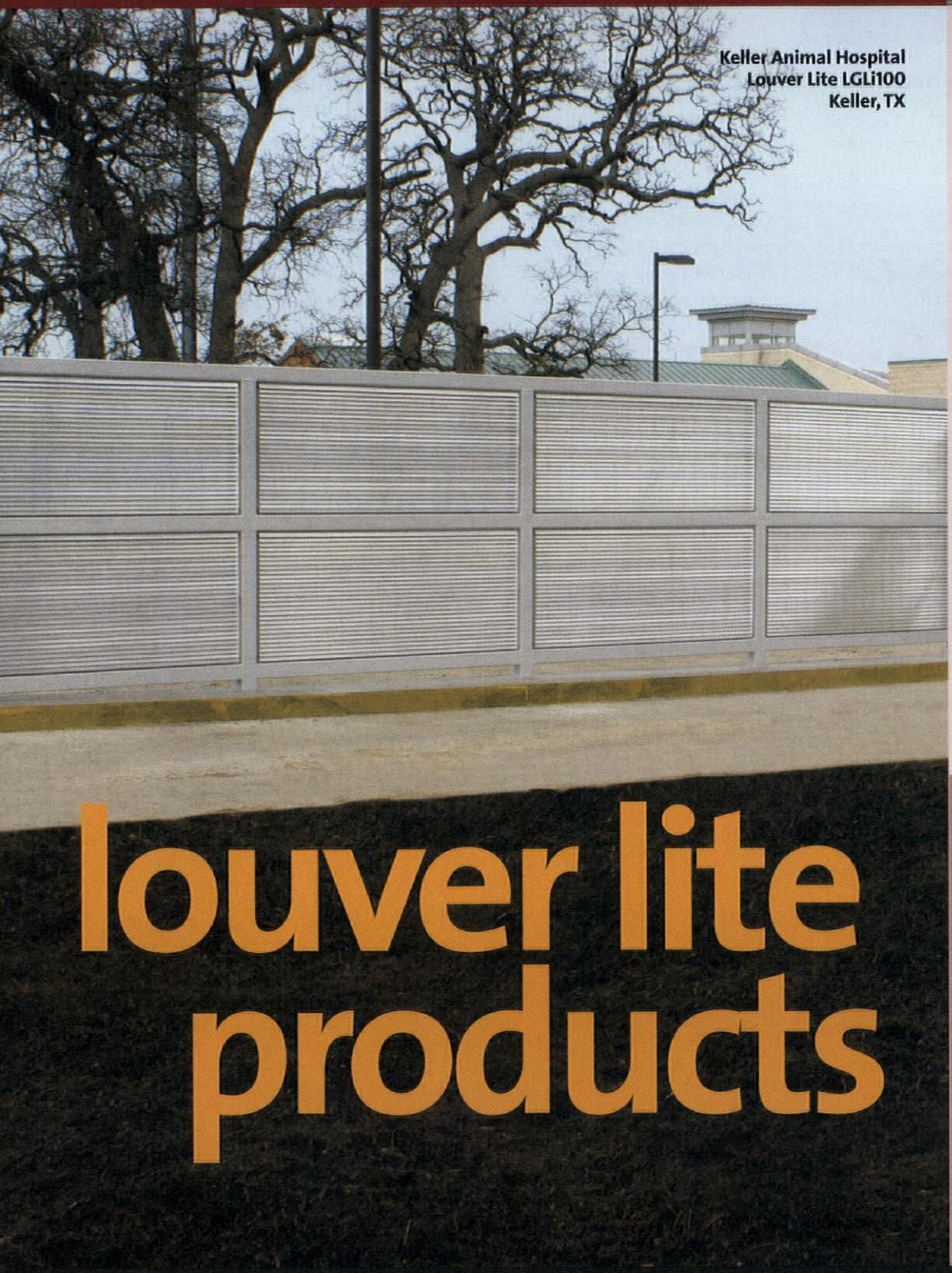


**COOL OPERATOR**
A mixture of polypropylene and stainless steel, the TGI-Spacer M reduces condensation and heat transfer, particularly in larger window units.

PHOTOGRAPHY: COURTESY TECHNOFORM GLASS INSULATION

# *Louver Lite:* Ideal for applications requiring visual screening & open air flow with enhanced security

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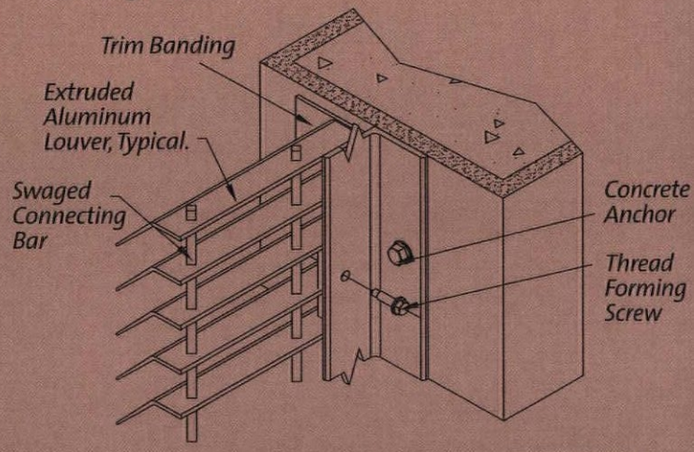


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**SNAP 8**

# Surface Effects

**WHEN DESIGNING THE** main 56,000-square-foot building for Northeastern Illinois University's El Centro campus, the team at Juan Gabriel Moreno Architects faced numerous site challenges. Foremost was noise, as the structure—encompassing classrooms, computer labs, and study and community rooms—would be adjacent to Kennedy Expressway, a major highway leading to nearby Chicago. The university wanted a visually arresting building that would mark its presence. And the structure had to be able to withstand extreme swings in temperature: the hot sun, ferocious winds, and bitter cold for which the area is so well known.

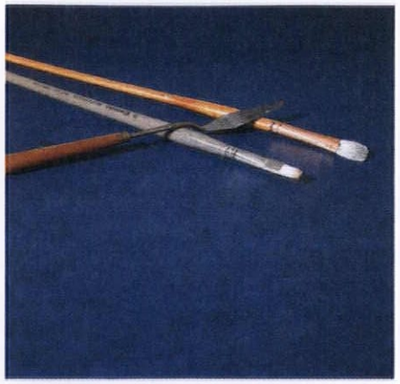
The solution? Wrapping the building in a Butech ventilated facade system fitted with Urbatek XLight porcelain panels.

The combination was inspired. Porcelain is impervious to UV light, so colors remain clear and don't degrade over time; the material also stands up to temperature demands. The tiles' modular format facilitated rapid construction. Plus, in that configuration, the panels not only shade the building's interior, keeping it cool, but also dampen the noise emanating from the expressway and the nearby commuter train line.

The Chicago-based architects played with perception by facing the exterior louvers in two colors of porcelain. Drivers headed eastward toward downtown pass an edifice of yellow, while those driving westward see a building that's blue. —*Leslie Clagett*

**OUTSIDE IN** Converging diagonal lines lend a sense of dynamism to El Centro's structure, which is clad in glass, solid surfacing, and through-body porcelain tile.

PHOTOGRAPHY: COURTESY JUAN GABRIEL MORENO ARCHITECTS



### RECLAIMED DENIM FIBER

**MANUFACTURER:** Formica
**APPLICATIONS:** Made with denim fiber reclaimed from clothing mills, this laminate comes in two finishes: Jeans, a diagonal twill, and Gloss, an inky blue with depth.
**PERFORMANCE:** No two sheets are alike. For interior use only, the material is not suitable for postforming.
**PRICE RANGE:** $$
**FORMICA.COM**
**(SNAP #221)**

### BEE HIVE

**MANUFACTURER:** Daltile
**APPLICATIONS:** Made with pre-consumer recycled material, this 24-by-20-inch porcelain tile is LEED eligible.
**PERFORMANCE:** The hexagonal shape adds geometric interest to walls, floors, and countertops. Offered in six colorways and suitable for both wet and dry interiors.
**PRICE RANGE:** $$
**DALTILE.COM**
**(SNAP #222)**

### LA BOHEME BO1

**MANUFACTURER:** Neolith TheSize Surfaces
**APPLICATIONS:** The first wood decor manufactured in 12mm thickness, this stone-based surfacing has a bold grain and digitally produced 3-D texture.
**PERFORMANCE:** Suitable for countertops and kitchen islands, it's offered in six colorways.
**PRICE RANGE:** $$
**THESIZE.ES**
**(SNAP #223)**

### COLOREDGE

**MANUFACTURER:** Arborite
**APPLICATIONS:** This fire-rated, high-wear laminate features consistent color from top to bottom and, when installed, is virtually free of visible seams.
**PERFORMANCE:** Suitable for horizontal and vertical applications. LEED eligible and Greenguard Indoor Air Quality certified.
**PRICE RANGE:** $
**ARBORITE.COM**
**(SNAP #224)**

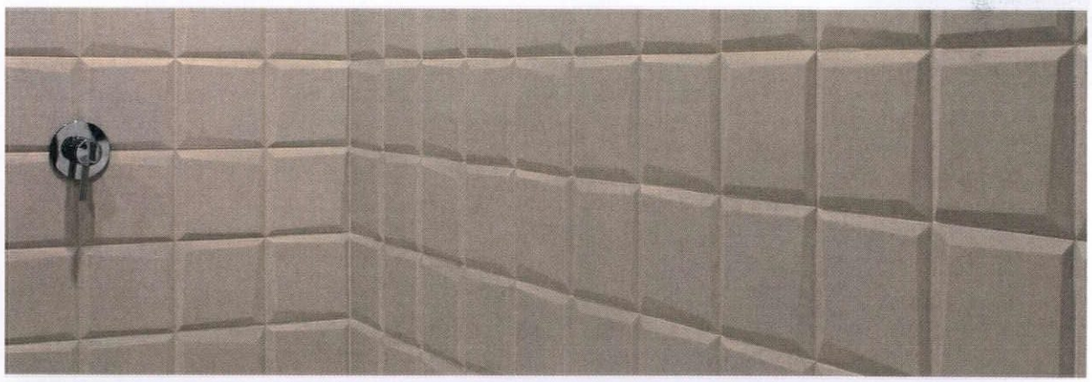
**KEY** $=VALUE, $$=MID-RANGE, $$$=HIGH-END

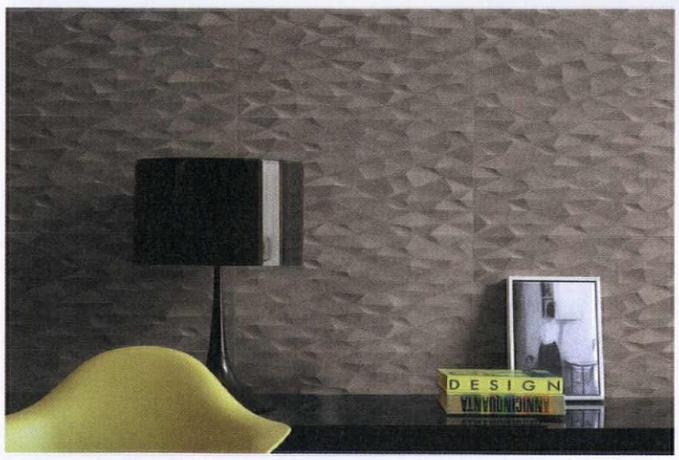
= ECO-FRIENDLY ATTRIBUTES

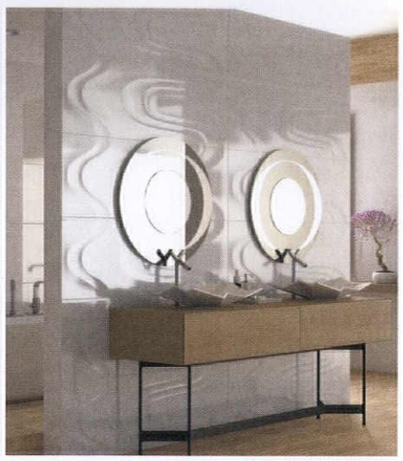
# New Dimensions

**WHEN IT** comes to field tiles, texture has long been secondary to color and pattern. Well, that's changing, as designers turn their talents to creating more three-dimensional designs. For instance, **Tagina**'s new DeTails collection of ceramic tiles features contoured edges that, when placed next to each other, form concave interstitial spaces. Coordinating grout enhances the dimensional effect, adding to the play of shadow and light.

Other manufacturers are exploring allover treatments as well. Suitable for residential and commercial applications alike, the dramatic Troya Black—by **Azulejos el Mijares**—offers a texture reminiscent of natural shale. More, a porcelain wall and floor tile from **Piemme**, brings to mind crumpled paper. And on **Saloni**'s glazed Vantage Drip, a gently swirling indentation travels across multiple tiles. —*LC*





**IN TOUCH**
Tile manufacturers are experimenting with texture, be it concave edges or surface details. Examples include Tagina's DeTails (top), Saloni's Vantage Drip (far right), and Piemme's More (right).

PHOTOGRAPHY: COURTESY TAGINA, SALONI, PIEMME

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# Thermal and Moisture Protection Roof and Wall Panels

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

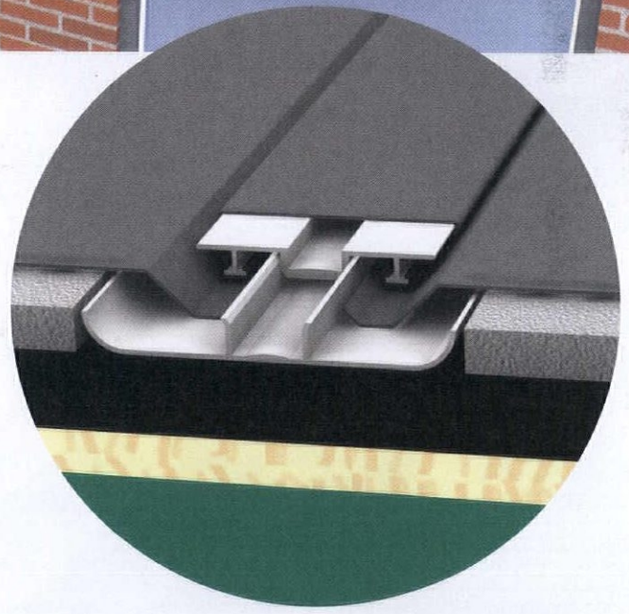
The Overly *Evolution* metal wall and roof system is without raised batten or standing seams and exposed fasteners. The system consists of a hidden drain channel, compression bar, cover cap and cladding sheets. The smooth, contemporary design appears monolithic when viewed from just a short distance. 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)

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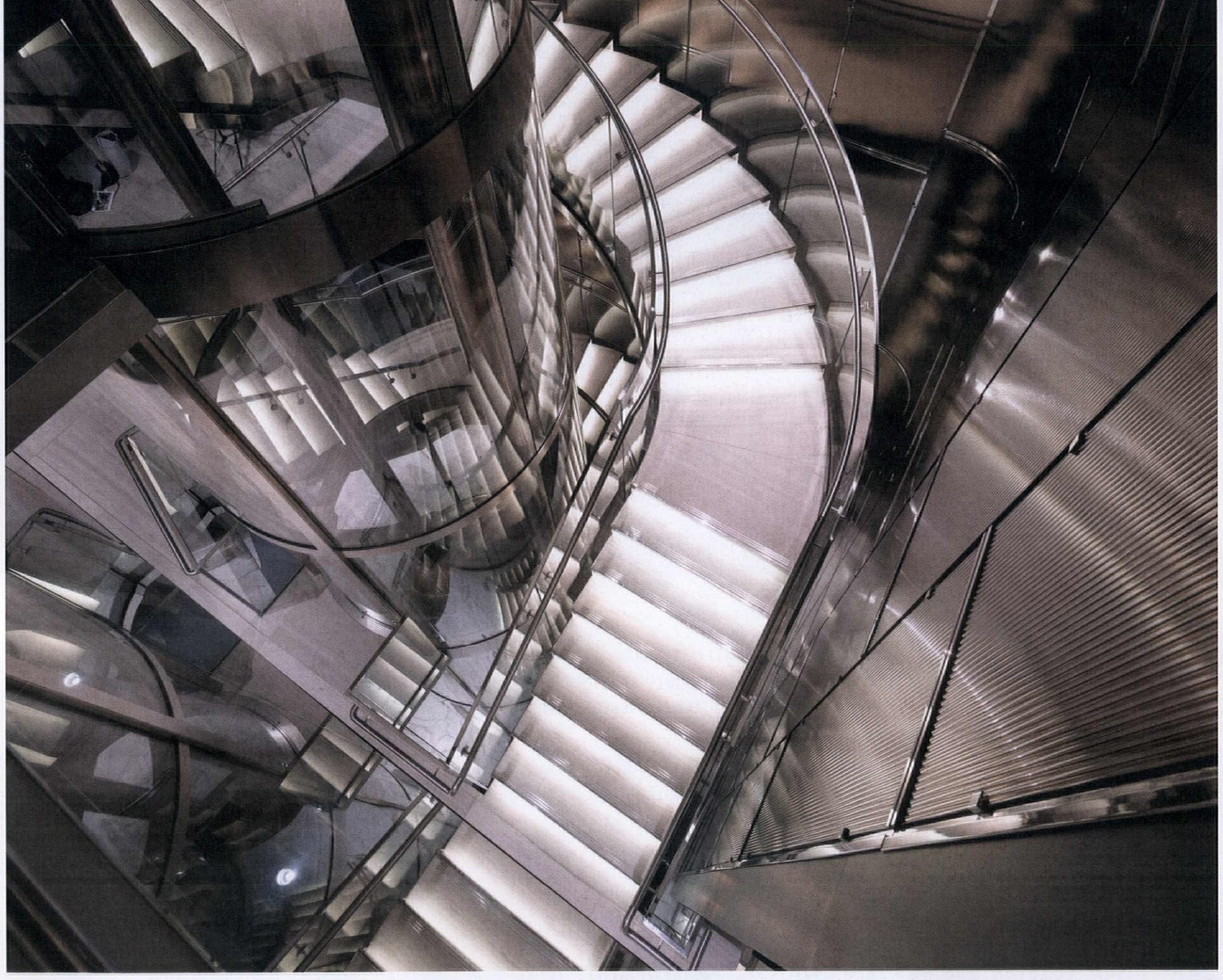
**SNAP 21**



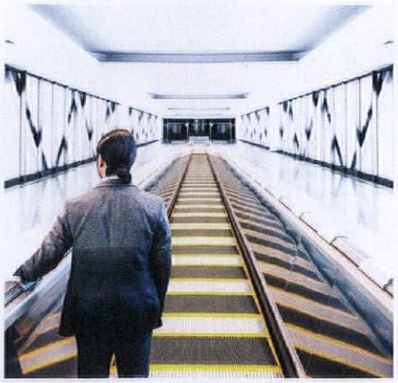
# Stairways to Heaven

**NO LONGER MERELY** functional elements, staircases are becoming design statements featuring multiple materials. At the Watches of Switzerland flagship in London, global planning and design firm CallisonRTKL created a spiral model with glass balustrades, marble treads, and champagne-colored stainless-steel risers. LED strips integrated into the risers illuminate the treads and bounce light off the mirrored stairwell. "We didn't want the stairway to simply take customers from one level to another," points out Tom Pulk, senior associate VP of CallisonRTKL. "We wanted the stairs to be an experience in their own right."

Although pairings of glass with steel or stone are popular, these showstopping staircases can draw upon a nearly limitless materials palette. Marretti's glass Cloud 4 has Corian treads, while Siller Treppen's Golden Cobra, designed for a residential client, marries a steel-and-wood structural frame with glass balustrades and treads accented with gold leaf. Frank Miano, owner of IPCS Design and U.S. distributor for Siller Treppen, has artistic aspirations, noting, "I like to think of our staircases as sculptures." —*Alice Liao*

**A LEG UP**
The staircase at Watches of Switzerland's London flagship, designed by CallisonRTKL, features marble treads, glass balustrades, and stainless-steel risers.

PHOTOGRAPHY: CHRIS EDEN

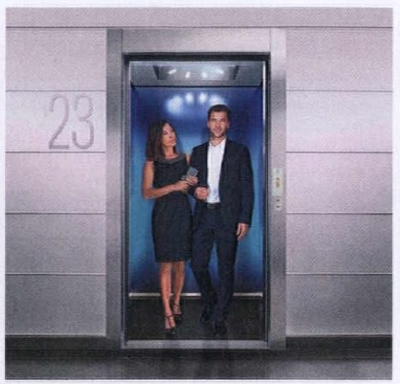


### ACCEL

**MANUFACTURER:** ThyssenKrupp
**PERFORMANCE:** Transporting up to 7,300 people per hour per direction, this pallet-based moving walkway uses linear motor technology to segue smoothly from speeds ranging from 1.46 to 4.47 mph.
**APPLICATIONS:** Ideal for airports and cities; best utilized for distances under a mile.
**PRICE RANGE:** $$$
**THYSSENKRUPPELEVATOR.COM**
(SNAP #225)

### 9BL SERIES BASE SHOE

**MANUFACTURER:** C.R. Laurence
**PERFORMANCE:** With a 4x safety factor, this extruded-aluminum base shoe exceeds the 200-pound minimum required by the IBC for laminated glass guardrails installed above a walking surface.
**APPLICATIONS:** Suitable for in- and outdoor use. Recycled content is eligible for LEED credits.
**PRICE RANGE:** $$
**CRLAURENCE.COM**
(SNAP #226)




### 5500 MRL ELEVATOR

**MANUFACTURER:** Schindler
**PERFORMANCE:** With a travel height of up to 350 feet and 33 stops, this traction elevator with a Power Factor 1 regenerative drive is available with an optional Port Technology destination dispatching system.
**APPLICATIONS:** Designed for mid-rise buildings, the elevator comes standard with a variety of looks and hoistway configurations.
**PRICE RANGE:** $$
**SCHINDLER.COM**
(SNAP #227)

### CARBON STAIRCASE

**MANUFACTURER:** Fontanot
**PERFORMANCE:** Made of a carbon fiber–reinforced polymer, this self-supporting modular staircase can be integrated with LED lighting.
**APPLICATIONS:** Suitable for residential, contract, and hospitality projects. Up to 20 of the approximately 22-pound modules can be connected to form a variety of configurations.
**PRICE RANGE:** $$$
**FONTANOTCONTRACT.COM**
(SNAP #228)

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

= ECO-FRIENDLY ATTRIBUTES

# Wellcome News

**SEE THE SIGHTS**
London's Wellcome Collection (above, left) outfitted its elevators with E-Motive Panorama screens (at right) that use multimedia to highlight the full breadth of the museum's offerings.

**TO ENTICE VISITORS** to the upper reaches of its central London museum, the Wellcome Collection upgraded the building's 20-year-old elevators with E-Motive Panorama media displays from **Avire**. Replacing an underperforming system of static signage, the LED-backlit LCDs are vertically installed in each car to engage visitors with dynamic multimedia presentations promoting the venue's art and medical artifacts.

Vivid graphics are ensured thanks to a 1680 x 342 resolution, a 2,000-to-1 contrast ratio, and the ability to display up to 16 million colors; the extralong format allows a host of information—including floor numbers, synchronized directories, static or scrolling messages about exhibitions, live feeds, and video clips—to be displayed simultaneously. The customizable screen layouts are programmed by building management.—*AL*

## SNAP BACK

**TOM PULK**
*Senior Associate VP*
*CallisonRTKL*
*New York*

"When designing stairs specifically for a store, remember that guests may choose whether or not to travel up and down. Create compelling reasons to draw them into the retail space by enriching the experience both physically and emotionally."

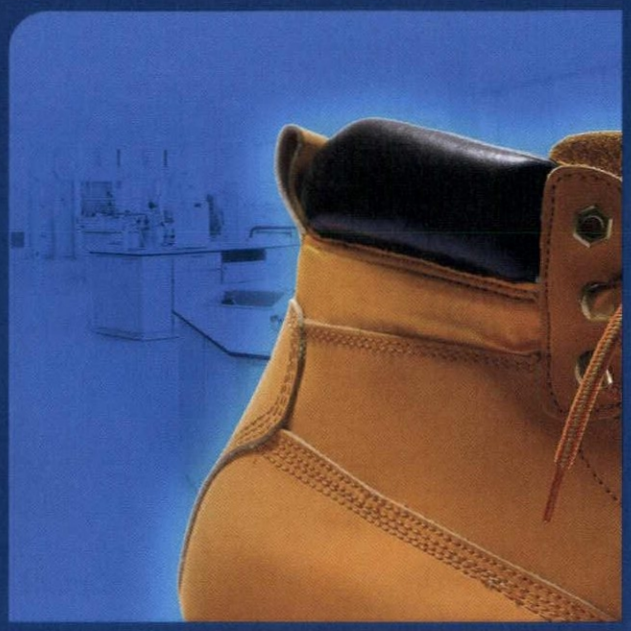
## SNAP FACT

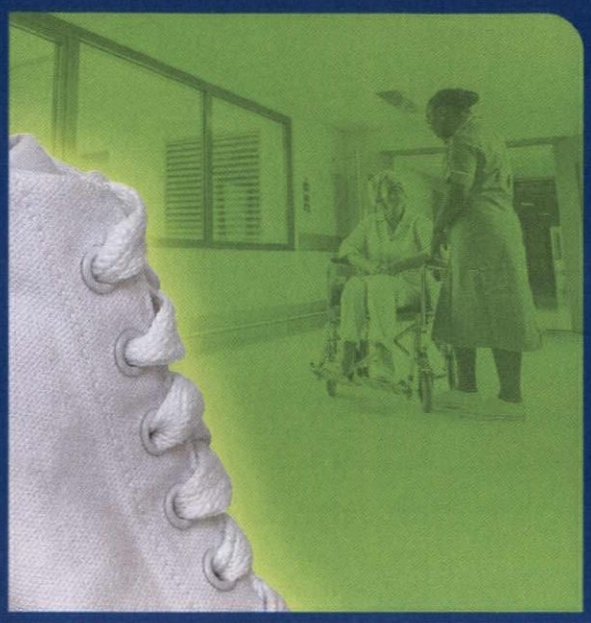
Global demand for elevator equipment and services is forecast to grow

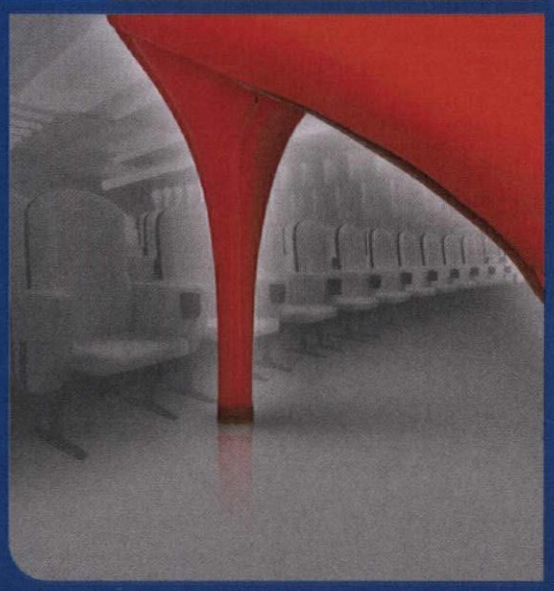
**5.9%**

annually, reaching **$121 billion** in 2019.

**SOURCE:** FREEDONIA GROUP







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**SNAP 25**

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# Mighty Minis

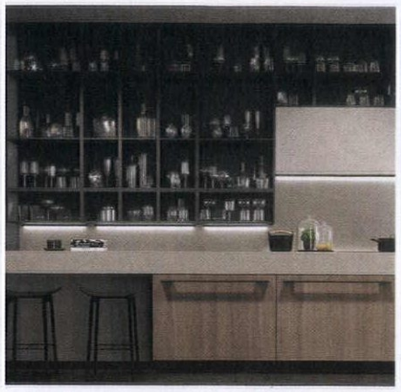
**RESPONDING TO THE** increase in urban apartment construction, kitchen-appliance companies are rethinking their offerings. Sure, the brands still make six-burner professional stoves and double-door refrigerators capable of storing a month's worth of food. But for city dwellers with smaller kitchens, manufacturers such as Whirlpool, GE, KitchenAid, Dacor, Bosch, and Thermador are producing scaled-down—but not downscale—versions of key pieces.

Thermador, for example, offers a 30-inch, five-burner range installable with zero clearance against a rear wall. The latter scenario is possible because of reengineered ventilation technology that reduces back-wall temperatures by up to 25 percent. Bosch is doing its part, too, adapting its slim, 24-inch fridge to reflect a city lifestyle. Among the changes: the once-coveted automatic icemaker is now an optional feature.
*—Leslie Clagett*

**SMALL WORLD**
Bosch is adapting its products to urban kitchens, offering slimmed-down and slide-in options of key appliances.

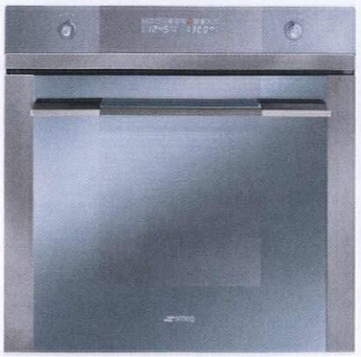
### SYNC

**MANUFACTURER:** Dornbracht
**APPLICATIONS:** This versatile faucet's pull-down spout has a wide projection and can swivel 360 degrees; the handgrip of the spout is also insulated against heat.
**PERFORMANCE:** Features a spray setting and laminar flow. Finishes include polished chrome and platinum matte.
**PRICE RANGE:** $$
**DORNBRACHT.COM**
(SNAP #229)



### OPERA

**MANUFACTURER:** Snaidero
**APPLICATIONS:** Designed by Michele Marcon, these linear Italian cabinets blend natural materials with synthetic surfaces. Pieces include drawers, islands, and open shelves that are particularly suited to tall spaces.
**PERFORMANCE:** Offered in eight standard finishes—wood, lacquer, and melamine included—as well as with six worktop options.
**PRICE RANGE:** $$$
**SNAIDERO-USA.COM**
(SNAP #230)



### LINEA AESTHETIC SF112U

**MANUFACTURER:** Smeg
**APPLICATIONS:** Finished in silver glass and stainless steel, this 24-inch, 2.8-cubic-foot wall oven offers 12 cooking modes.
**PERFORMANCE:** Features a double-insulted cavity, dual digital displays, and multi-glazed removable door.
**PRICE RANGE:** $$
**SMEGUSA.COM**
(SNAP #231)

### REGULATOR

**MANUFACTURER:** Waterworks
**APPLICATIONS:** A central handle controls the water temperature of this handcrafted faucet, while wheel handles control flow. Optional fittings: single-spout faucet, pot filler, bar faucet.
**PERFORMANCE:** Available in 12 finishes. The faucet's brass handles are resistant to hard water.
**PRICE RANGE:** $$$
**WATERWORKS.COM**
(SNAP #232)

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

= ECO-FRIENDLY ATTRIBUTES

# Open-Minded Kitchens

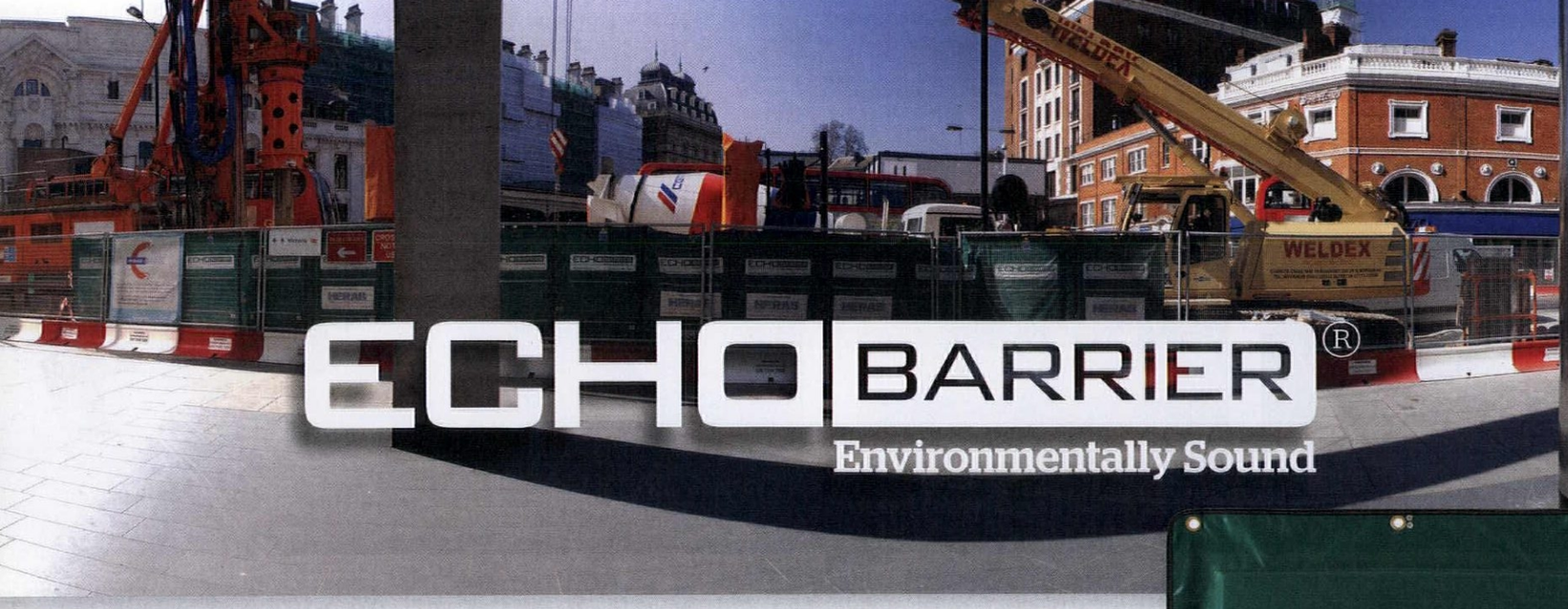
**INCORPORATING A** kitchen into an open floor plan can be tricky, particularly if the project is a remodel. Two new designs pose alternative solutions.

Inspired by traditional writing desks, **Valcucine**'s Genius Loci kitchen island features a system of drawers customizable in function and look. The slimmer worktop and lower plinth create 15 percent more interior storage space than the company's previous models, while the open frame houses LED lights precisely angled to the work surface, so as not to cause glare to the adjoining living areas. The unit comes in a variety of finishes—including distressed copper and bronze—and with optional furniture-like touches such as surface inlays of marble and carved wood.

Patricia Urquiola's modular Salinas system for **Boffi** comprises a tubular metal armature housing a custom array of cupboards, drawers, worktops, and overtop storage structures. The unit, which comes in two heights, can support suspended, floor-mounted, and undermounted appliances. It is offered in multiple finishes, including textured concrete and lacquered metal, and can be configured to turn corners, form peninsulas, and otherwise respond to the space and needs of its users. —*LC*

**ISLAND LIVING**
Valcucine's Genius Loci stand-alone kitchen (left) features customizable drawers and furniture-like options. The Salinas system from Boffi (right) is constructed around a metal frame that can support storage and worktop options, as well as suspended and undermounted appliances.

PHOTOGRAPHY: COURTESY VALCUCINE, BOFFI

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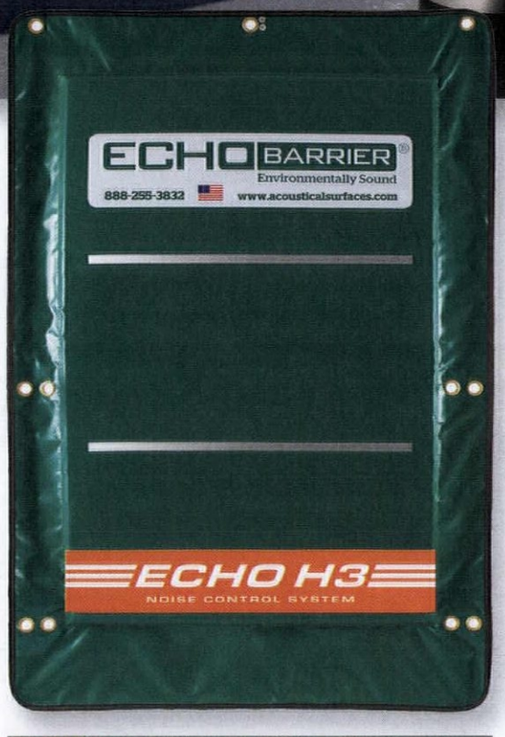


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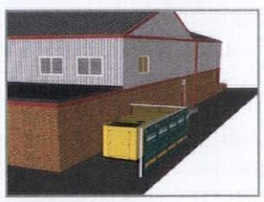

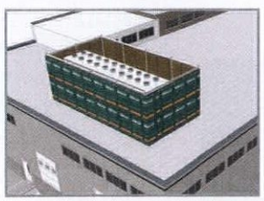

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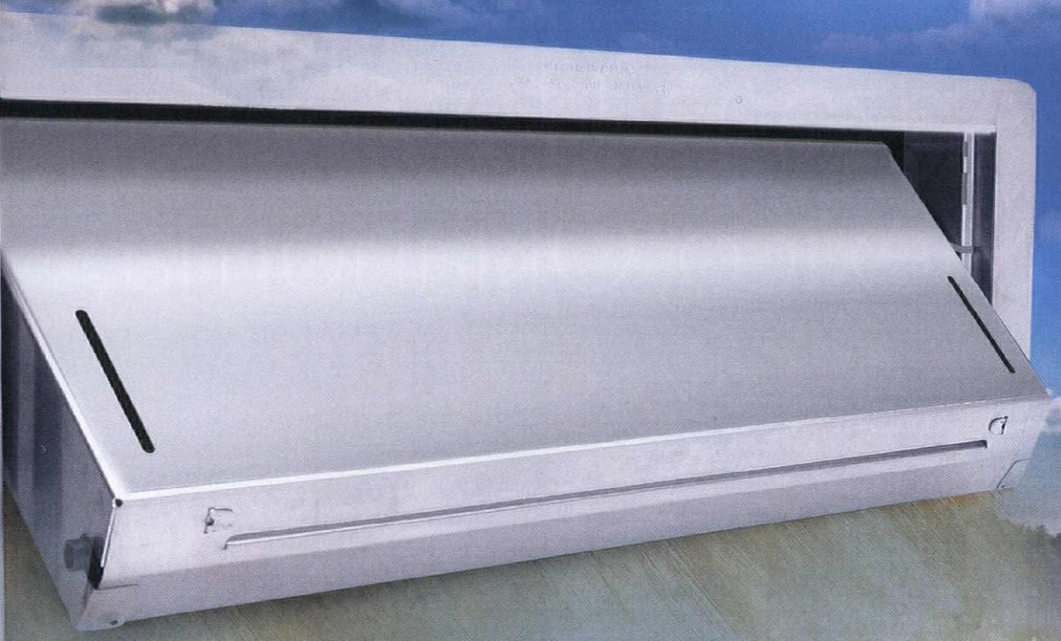

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# Trickling Down

*Plummeting oil and gas prices take a toll on manufacturers.* BY J. MICHAEL WELTON

**WHEN THE** energy sector in the Southwest sneezes, companies across the region catch a cold. And at the heart of it is Texas. "The meltdown in the oil and gas industries here has had a ripple effect," says Tony Bennett, president of the Texas Association of Manufacturers. "Steel manufacturers are laying off folks and pumping units are shutting down."

Texas held its own through the recession, maintaining steady growth in the construction sector. The greater Dallas/Fort Worth area, for example, "has never stopped building," says Kent Bradshaw, Northeast sales manager at **International Cellulose Corporation**, a maker of cellulose thermal insulation and acoustical finishes.

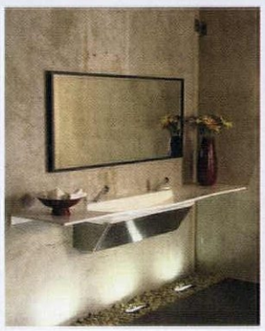
But in oil-and-gas-dependent Houston, it's a different story. "Business is kind of flat—and I'm talking about nationwide providers of lumber and panel projects," Bennett says.

The downturn's effects have also hit neighboring Oklahoma. "Equipment manufacturing has dropped off, and the construction industry has picked up some of the losses," says Jon Chiappe, director of research and economic analysis at the Oklahoma Chamber of Commerce. "There's glass and brick manufacturing, and HVAC is still strong, although not if the product is used in refineries."

New Mexico's growth is also flat, with companies like **Q-CAD**, which provides CAD-drafting services, relying on a geographically diverse clientele to maintain its equilibrium. The same holds true for Arizona, where Phoenix-based **Kornegay Designs** has managed to stay afloat by marketing its precast-concrete planters, benches, and trash receptacles to universities and cities nationwide.

Overall success in the region, however, heavily depends on the energy sector's health. Yet experts like TAM's Bennett don't foresee a turnaround there until at least late 2016 or 2017.

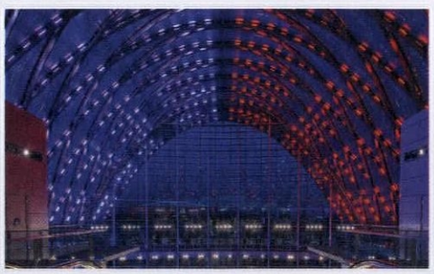
## Arizona, New Mexico, Oklahoma, and Texas



**1 MANUFACTURER:** Intersan Manufacturing
**LOCATION:** Phoenix, Arizona
**PRODUCTS:** Commercial and healthcare plumbing solutions.
**FOUNDED:** 1938
**EMPLOYEES:** 25
**PRICE RANGE:** $$
**INTERSAN.US**

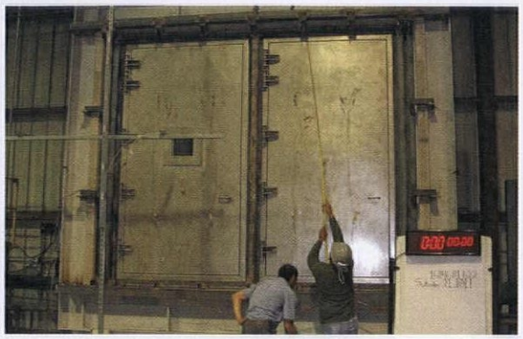
**2 MANUFACTURER:** Kornegay Design
**LOCATION:** Phoenix, Arizona
**PRODUCTS:** Seating, site furnishings, trash receptacles, precast-concrete planters.
**FOUNDED:** 1997
**EMPLOYEES:** 15
**PRICE RANGE:** $$
**KORNEGAYDESIGN.COM**

**3 MANUFACTURER:** Air Concepts
**LOCATION:** Tucson, Arizona
**PRODUCTS:** Specialty air-distribution grilles and registers.
**FOUNDED:** 1958
**EMPLOYEES:** 20
**PRICE RANGE:** $$
**AIRCONCEPTS.COM**



**4 MANUFACTURER:** Insight Lighting
**LOCATION:** Rio Rancho, New Mexico
**PRODUCTS:** LED lighting products, including architectural lighting, wayfinding systems, luminous walls, facade lighting, and high-performance light-pipe systems.
**FOUNDED:** 1991 **EMPLOYEES:** 80–100
**PRICE RANGE:** $–$$$ **INSIGHTLIGHTING.COM**

**5 MANUFACTURER:** Q-CAD
**LOCATION:** Las Cruces, New Mexico
**PRODUCTS:** CAD drafting services for 2-D and 3-D software programs, including AutoCAD, Revit, MicroStation, and SolidWorks.
**FOUNDED:** 1992 **EMPLOYEES:** 40
**PRICE RANGE:** $ **Q-CAD.COM**

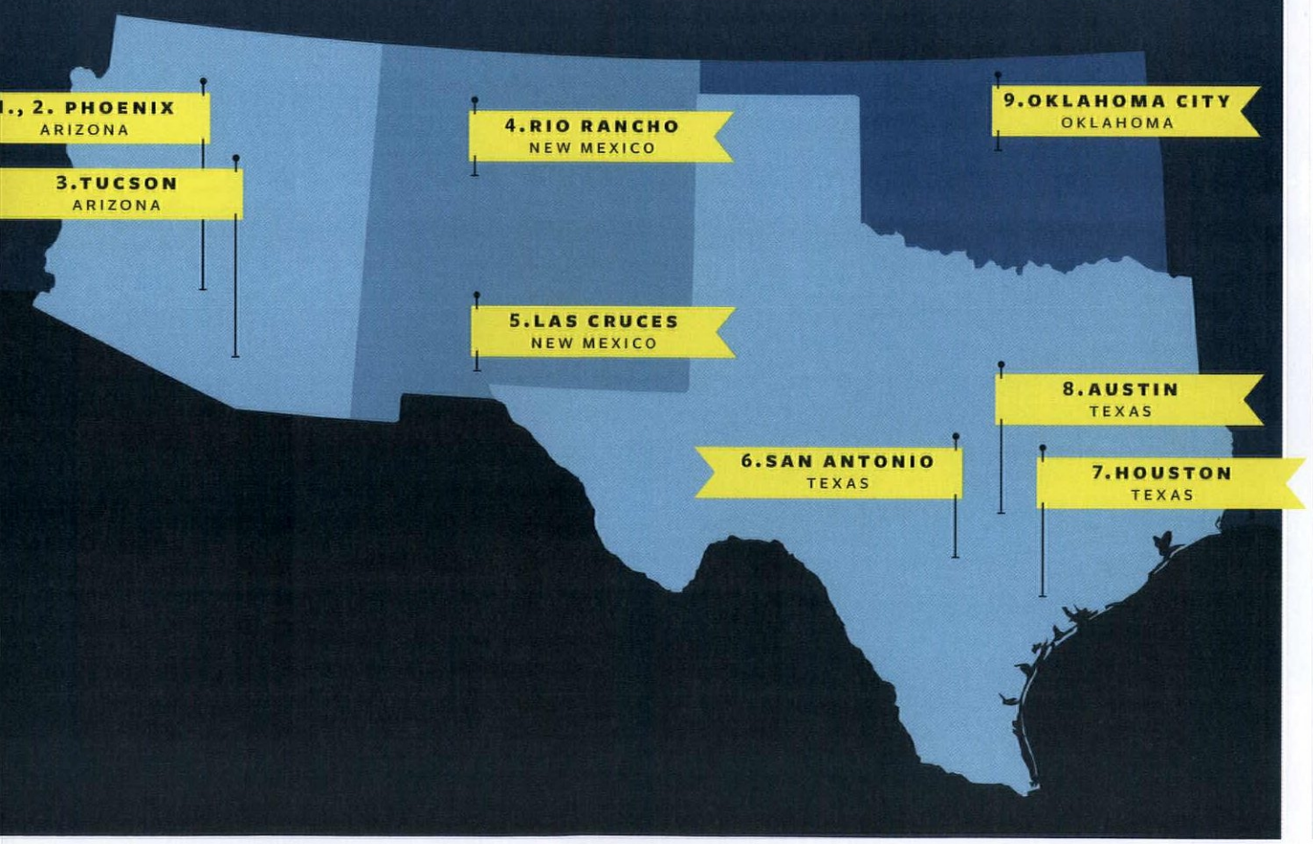


6 **MANUFACTURER:** Deansteel Manufacturing Company
**LOCATION:** San Antonio, Texas
**PRODUCTS:** Steel and metal doors, including models that are fire-rated, blast-resistant, and bullet-resistant.
**FOUNDED:** 1958
**EMPLOYEES:** 84 **PRICE RANGE:** $$
**DEANSTEEL.COM**

7 **MANUFACTURER:** International Cellulose Corporation
**LOCATION:** Houston, Texas
**PRODUCTS:** Spray-applied cellulose thermal insulation and acoustical finishes.
**FOUNDED:** 1965
**EMPLOYEES:** 50 **PRICE RANGE:** $–$$
**SPRAY-ON.COM**

8 **MANUFACTURER:** Illumitex
**LOCATION:** Austin, Texas
**PRODUCTS:** Horticultural grow lights for vertical farms, greenhouses, and indoor gardening.
**FOUNDED:** 2007 **EMPLOYEES:** 75
**PRICE RANGE:** $$–$$$ **ILLUMITEX.COM**

9 **MANUFACTURER:** Flex-Ability Concepts
**LOCATION:** Oklahoma City, Oklahoma
**PRODUCTS:** Deflection clips and flexible, curvable metal and wood framing.
**FOUNDED:** 1995
**EMPLOYEES:** 35–40
**PRICE RANGE:** $$–$$$
**FLEXABILITYCONCEPTS.COM**




# SNAPSHOTS

## ARIZONA

In 2014, **153,900 Arizonans** worked in manufacturing.

The average annual compensation for the state's manufacturing jobs in 2013:

**$78,913**

**SOURCE:** NATIONAL ASSOCIATION OF MANUFACTURERS

## NEW MEXICO

In 2013, the state's manufacturers produced **$5.61 billion worth of goods.**

In 2012, New Mexico's largest manufacturing sector was computer and electronic products, at **$2,805 million**—nearly three times the **$999 million** revenue of the next sector: petroleum and coal products.

**SOURCES:** NEW MEXICO MANUFACTURING EXTENSION PARTNERSHIP, NATIONAL ASSOCIATION OF MANUFACTURERS

## OKLAHOMA

Thanks to a booming energy sector, the number of manufacturing jobs in Oklahoma **increased 5.6%** between September 2010 and November 2014, topping the 5.1% national average in the same time period.

In 2014, 5,440 manufacturers—employing a total of **210,548 workers**—called the Sooner State home.

**SOURCE:** MANUFACTURERS' NEWS, INC.

## TEXAS

In 2013, Texas ranked **second in the U.S.** in total manufacturing employment, just behind California.

Lone Star State manufacturers exported **$260.6 billion** worth of goods in 2014.

**SOURCES:** NATIONAL ASSOCIATION OF MANUFACTURERS, TEXAS WIDE OPEN FOR BUSINESS

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**SNAP 37**

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OVERVIEW **PAGE 53**
Office buildings reach for higher sustainability goals.

Q&A **PAGE 55**
Amanda Sturgeon forays into a Living Future.

CASE STUDIES **PAGE 56**
>Foundry Square III
>Tower at PNC Plaza

PRODUCTS **PAGE 66**
BuildingGreen's Top 10 of the year.

EARTHWATCH **PAGE 70**
An installation in Ireland visualizes oil consumption.

GreenSource
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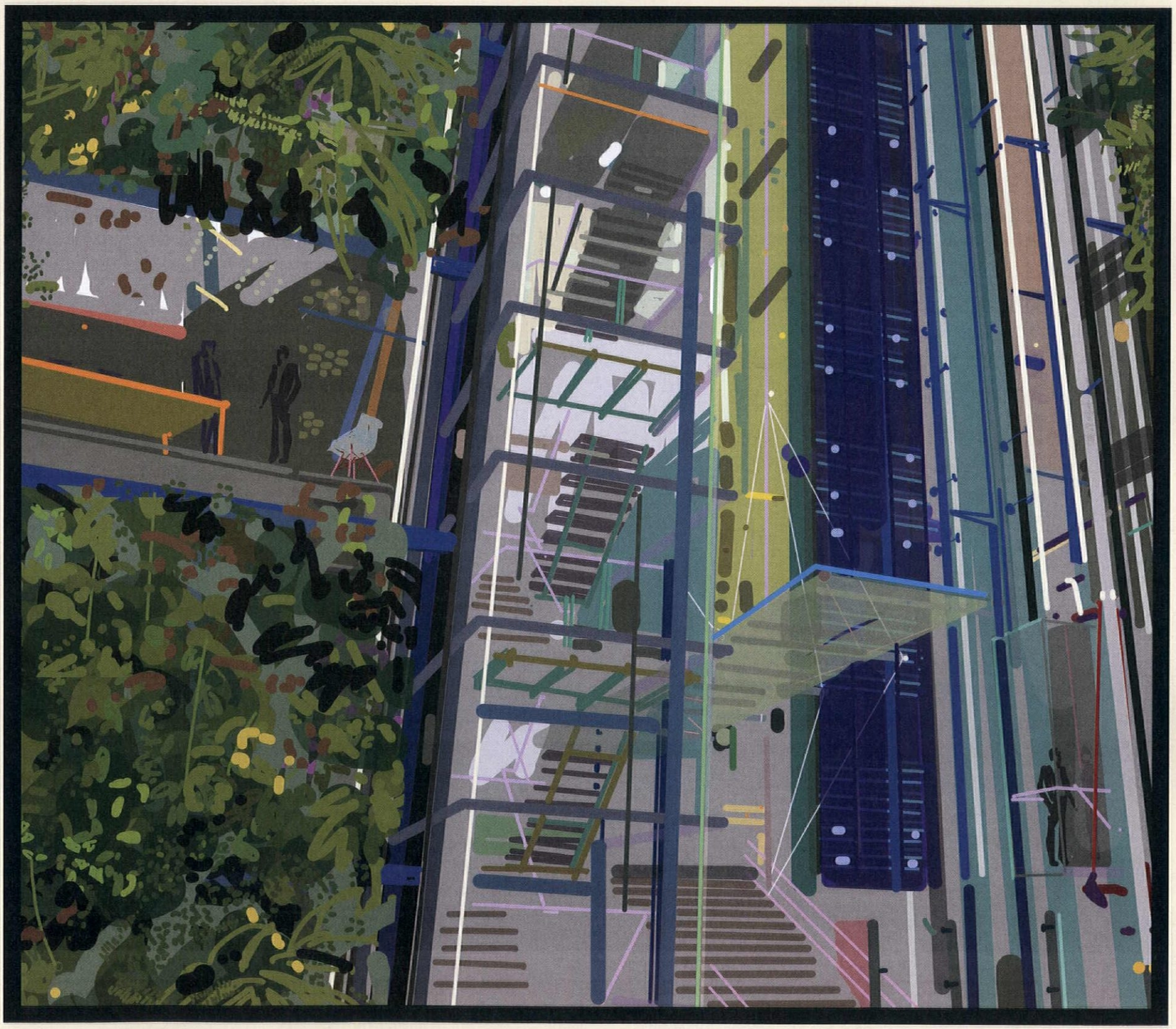
# Corporate Conscience



# Luxury High Rise Specified Noise Dampening Underlayment

**CHALLENGE:** Specifying underlayment for new flooring at the Trump International Sonesta Beach Resort, a hotel in Sunny Isles Beach, Florida.

**SOLUTION:** Specification and installation of Insulayment—a high-performing, recycled fiber acoustic underlayment designed for use under glue-down and nail-down hardwood and engineered wood floors and under ceramic, porcelain, and most stone tile. Featuring randomly air-laid filaments that create a capillary effect to cushion the floor and absorb impact sound, Insulayment meets all stringent building code requirements. Insulayment also includes an antimicrobial additive that inhibits mold growth.

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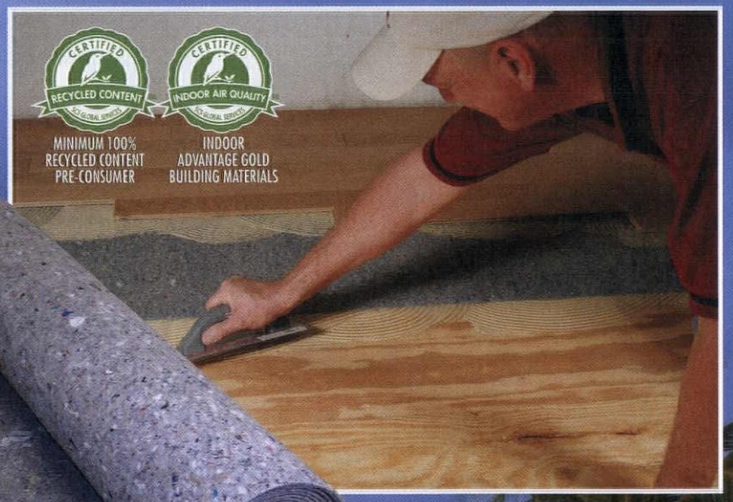


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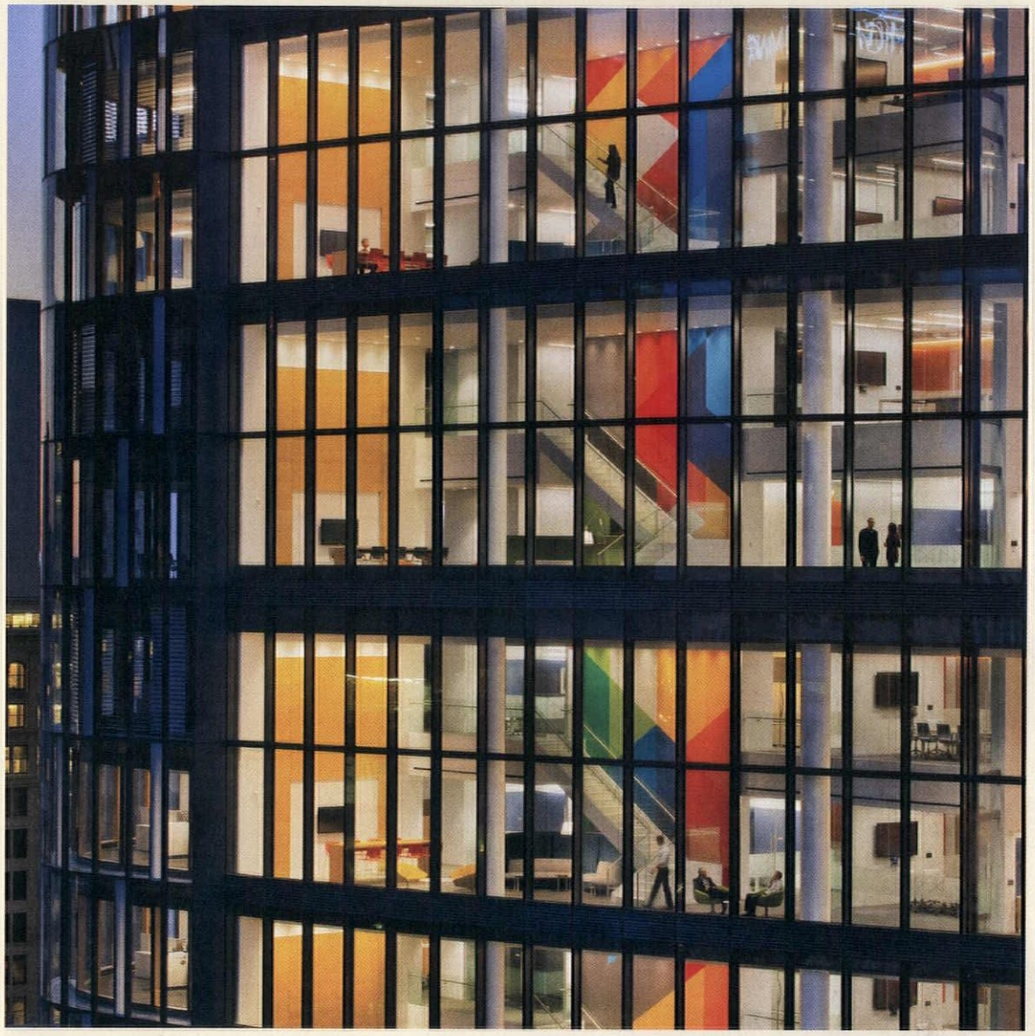


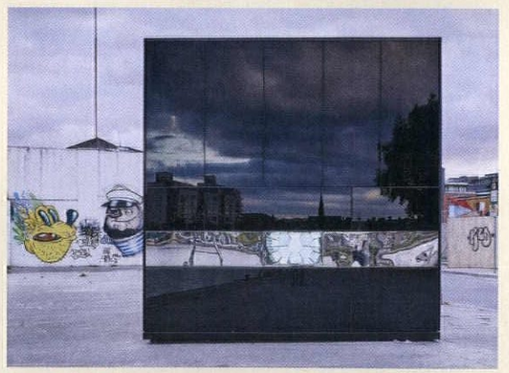
IN THIS ISSUE

# New Heights for Green Building

**BuildingGreen provides** information and consulting services about products and systems that minimize the impact on the environment while maximizing economic performance. At this year's GreenBuild in Washington, D.C., BuildingGreen announced its Top 10 Green Building Products for 2016 (p. 66). Among this year's winners are those that save energy and reduce carbon in completely novel ways, including super-efficient innovative heat pumps used in new applications and lighting systems that improve performance and might just transform how we wire buildings.

Our two case studies on opposite coasts of the U.S. demonstrate how developers and corporations are now leading the way to a sustainable built environment in commercial buildings. Foundry Square in San Francisco shows how speculative office buildings can meet tenants' demands with green systems (p. 56), while in Pittsburgh, 2,000 employees have moved into the Tower at PNC Plaza (p. 60), the financial services group's new corporate headquarters. The tower is designed to exceed LEED Platinum certification and aspires to be the greenest office tower in the world.

In this issue's interview (p. 55), Amanda Sturgeon, an award-winning architect and green-building pioneer in the Pacific Northwest, discusses her role at the International Living Future Institute. EarthWatch uncovers the 5CUBE (p. 70) in Ireland, a physical representation of how much oil the country consumes every five minutes. Its purpose is to get citizens thinking about dependency on fossil fuels and to consider renewable sources of energy that are cleaner, and ultimately cheaper, alternatives. GS



Natural light fills the workspaces of Foundry Square III (top left), the last in a cluster of four midsize office buildings designed by Studios Architecture in San Francisco. On the other side of the country, in Pittsburgh, Gensler's Tower at PNC Plaza employs its own barrage of sustainable building strategies. Its multiple facade systems include a shallow double skin on its west face (top right). Across the Atlantic, a public installation spotlights Ireland's oil consumption (above).

**BY SARA HART**

PHOTOS: TIM GRIFFITH (TOP LEFT), CONNIE ZHOU (TOP RIGHT), ROS KAVANAGH (BOTTOM)

Inside cover illustration by TOBY NEILAN / ILLUSTRATION DIVISION

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SNAP 80

Q&A

# Defining What's Good

**Amanda Sturgeon** is the executive director of The International Living Future Institute (ILFI), where she will step into the CEO spot in January. Through work on the Living Building Challenge and other groundbreaking programs, the ILFI has helped to redefine the green-building movement, substantially raising the bar for true sustainability. An award-winning architect, Fellow of the American Institute of Architects, and LEED Fellow, Sturgeon has a vision for ILFI that goes far beyond green building to ask a tough question: What does 'good' look like for all living systems?

BY ERIN MCHUGH

PHOTO: DANIELLE BARNUM

**GREENSOURCE: You call the Living Building Challenge "the world's most rigorous performance standard." What have you found are some of the biggest challenges for certification since you launched in 2006?**

AMANDA STURGEON: We quickly discovered that it was illegal to build Living Buildings in many parts of North America because of antiquated regulations and codes, particularly around water re-use and treatment. The other significant challenge for project teams pursuing the program is the lack of manufacturers of building products who would or could reveal their ingredients to confirm that none of them are on the Living Building Challenge Red List of toxic substances. The continual challenge is achieving the social and behavioral shifts that make creating a Living Building possible.

**How did the Living Building Challenge come to be? Your website states that the Challenge in itself is a living thing, and evolves with time.** The Living Building Challenge was written by our founder and out-going CEO, Jason McLennan, as a response to the need to create more rapid change in the built environment. Given how much energy and resources buildings consume, Jason had the vision to create a framework that could completely transform the built environment to one that is ecologically restorative, culturally rich, and socially just. The Challenge is taken up by building project teams. As they discover barriers or need adaptations, they can request exceptions if their idea meets the intent of the Living Building Challenge Imperatives.

**Tell us some specifics about the Living Building Certifications to date.** There are 27 projects certified; nine are full Living Building certifications, with 18 others on their way to full certification. Additionally there are 302 projects in 15 countries that have registered their intention to achieve the Living Building Challenge. The project types now include a one-million-square-foot office campus, a data center, a hospital, a warehouse, and a processing facility.

**ILFI has long concentrated on the growth of sustainable communities. You have said that in your new role as CEO you want to focus on the "intersection of health, poverty, and the environment." This sounds like your aspirations for ILFI go beyond building and architecture into social change and activism.** Yes, I believe that a living future is possible only if all living systems thrive. We ask a fundamental question through our programs: "What does 'good' look like?" Our buildings and communities play a key role in the health and equity of people and all living systems. From the factories where our building products are made through to the transportation systems in our communities and the energy consumed in our buildings—they all have the potential to effect real positive change in people's lives. By asking "What does 'good' look like?" we change the framing of the question and the magnitude of the answers we need to generate.

> "The continual challenge is achieving the social and behavioral shifts that make creating a Living Building possible."
>
> AMANDA STURGEON
> *Executive director & incoming CEO, International Living Future Institute*

CASE STUDY 01

# The Bigger Picture

The final piece in a four-part puzzle, a midsize office building completes a successful business hub after an almost two-decades-long gestation period.

BY SARA HART

**When it opened** in 2014, Foundry Square III completed the final phase of a cluster of four speculative, midsize office buildings in San Francisco's South of Market Street (SoMa) district. The project was phased over a decade and a half, with the local office of the firm Studios Architecture providing master planning and design services.

The project must have seemed like risky business for the original developers when Studios created the master plan in 1998, seven years before the city adopted the San Francisco Transit Center District Plan in 2005. Tech companies were engaged in land grabs in Silicon Valley, leaving a high volume of San Francisco office vacancies in their wake, and SoMa was not yet a particularly desirable district. In addition, the parcels of land purchased for the development occupied four corners of a busy intersection, choked with noisy commuter traffic. But Studios' master plan calmed the chaos by creating open spaces where the four lots met the intersection.

With Foundry Square III now complete, the four plazas, dotted with trees and sculptures, create a single monumental volume, one that mitigates the traffic congestion and provides a model for neighborhood sustainability.

While Foundry Square III fulfills the requirements for LEED Gold NC, the design team pursued certification with imagination. The interiors feature floor-to-floor heights of 14 feet for increased natural lighting. A double-wall/air-cavity curtain-wall system defines the plazas, with self-shading devices integrated in the building's skin. The architects' choice of raised-floor distribution systems, rather than the dropped ceiling networks typically implemented in spec buildings, is particularly significant. Mechanical, electrical, and data delivery systems are distributed in the plenum between the finished floor and concrete slab. With accessible infrastructure, "plug-and-play" technology reduces installation costs, saves energy, and allows easy reconfiguration of components. Such flexibility is essential to attracting technology tenants.

Tishman Speyer acquired the property in 2012. As the new client, the developer sought a high-profile signature feature that would emphasize the building's LEED Gold NC certification and its commitment to sustainable development, even in the conservative spec market. David Brenner of Habitat Horticulture worked closely with the design team to create what he says is one of the largest living-wall arrays in North America. Two adjoining living walls, displaying 12,630 plants, and two floor-to-ceiling glazed walls define the lobby. The largest living wall displays nearly 1,500 square feet of greenery, densely planted with heart-leafed philodendron, cranesbill geranium, and mother fern. The 1,027-square-foot adjoining wall behind the lobby desk supports 23 plant species in thick swathes of violet-reds, greens, and silver.

TIM GRIFFITH

The lobby has one of the largest living-wall arrays in North America. Designed by Habitat Horticulture, there are 12,630 plants covering nearly 1,500 square feet. This dense panorama provides a soft backdrop for Thomas Houseago's patinated bronze sculptures.

## TEAM

**Architect** Studios Architecture

**Associate Architect** Jim Jennings Architecture

**Landscape Architect** SWA Group

**Engineers** Nishkian Menninger (now Nishkian) (structural); Flack & Kurtz (now WSP Parsons Brinkerhoff) (MEP); BKF Engineers (civil)

**General Contractor** Webcor Builders (shell & core)

## SOURCES

**Concrete** Webcor Concrete

**Curtainwall/Storefront** AGA

**Stone Precast Concrete Panels** Clark Pacific

**Stone** Henraux

**Point Support Glass at Techwall** Novum Structure

**Below-Grade Waterproofing** Caltite

**Raised Floor System** Haworths

**Sheet-Metal Roofing** Fabral

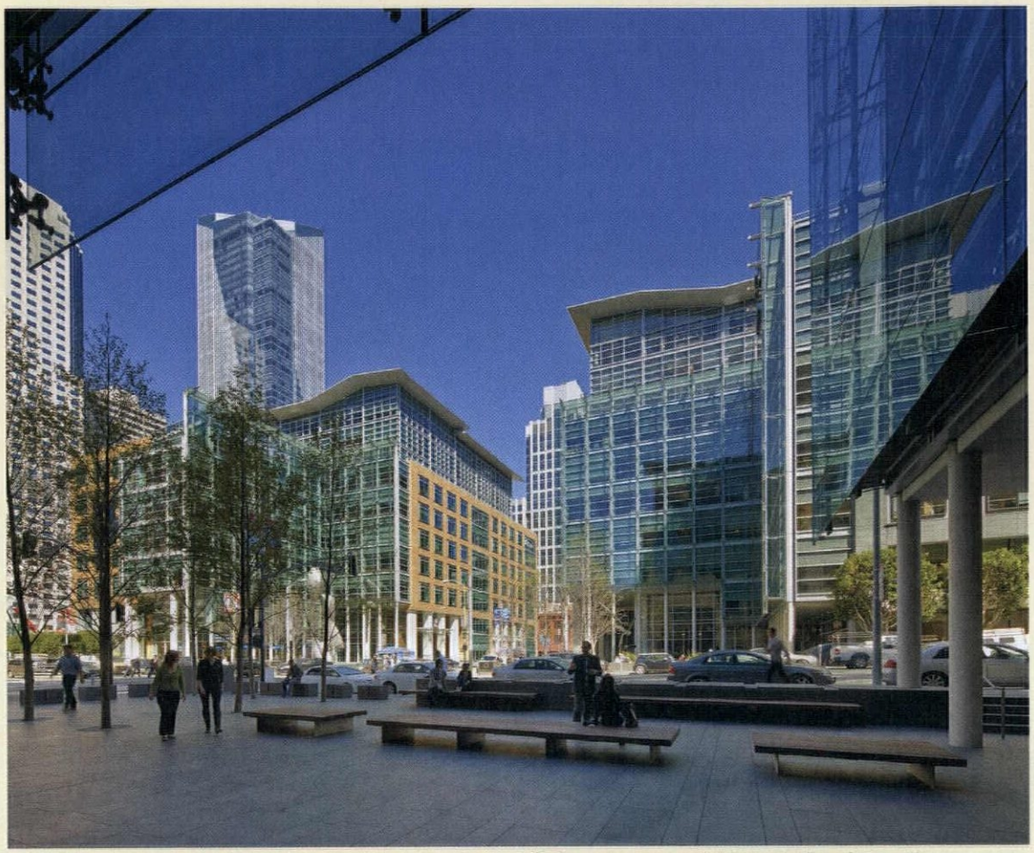
**Plaza Hardscape** Bison Pedestals

**Roof Deck** Hanover (pavers); Hydrotech (waterproofing and pedestals)

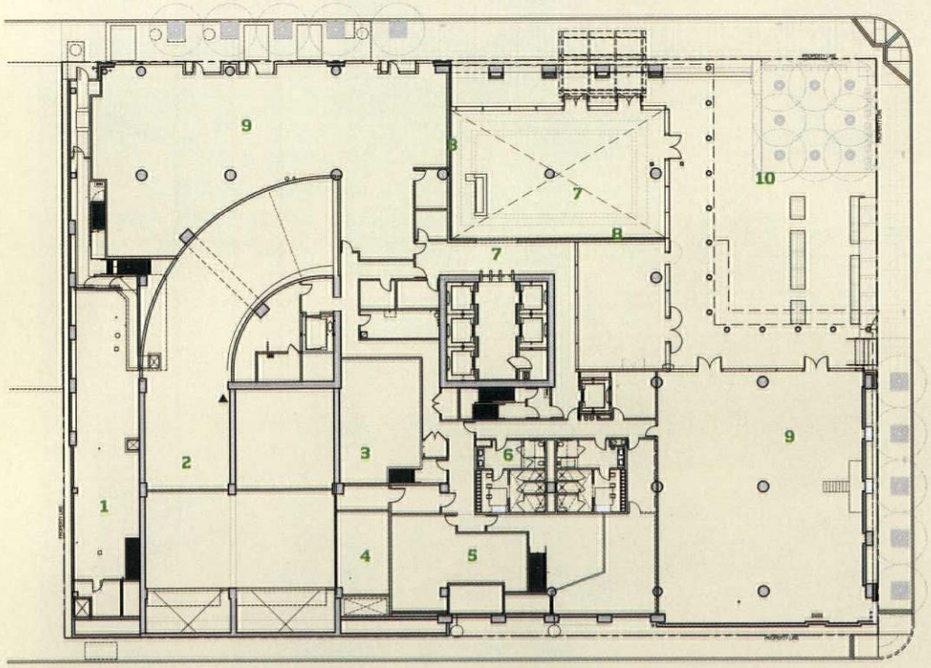
**Elevator** Kone

The living walls are maintained by an ingenious system that uses a porous, geo-textile, mold-free felt material instead of soil. This medium allows plant roots to migrate freely throughout the system. Moisture sensors in the wall help conserve water by irrigating only when necessary. Any water and nutrients that run off the wall are collected and re-calibrated to the appropriate pH and nutrient levels, then recirculated back to the plants during the next irrigation cycle. The entire life-support system is completely tied into the building automation system, which allows for real-time monitoring and alarm notifications to ensure all systems are functioning at the highest efficiency. The plants are maintained by an integrated pest management system, which uses natural biological control methods and organic oils.

Foundry Square demonstrates how sustainable construction has evolved from a subset of the AEC industry into the norm for most building types. The original developers' gamble is paying off: the project has become a successful business hub, soon to be surrounded by a new transit center and new housing, retail, entertainment, and restaurants. "The LEED certification means something in today's market in terms of leasing, project credibility, and project value," says Studios associate principal Peter van Dine. "More and more, tenants are interested in sustainable buildings. It is the right thing to do and has a tangible meaning in the market." GS



View across Foundry Square III's plaza to two of the other plazas, which form a monumental volume at a busy intersection.




FLOOR PLAN
1 Mechanical
2 Garage entry
3 Loading dock
4 Generator
5 Office
6 Restrooms
7 Lobby
8 Living wall
9 Retail
10 Exterior plaza

The L-shaped "Tech Wall" is approximately 95 feet tall and 74 feet long. Horizontal mullionless, point-supported glass provides the outer facade. These structural glazing panels are attached to vertical tension trusses, creating a four-foot cavity.

TIM GRIFFITH

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CASE STUDY 02

# A Breath of Fresh Air

Gensler creates a building with an innovative ventilation strategy for a client with a deep commitment to sustainability.

BY JOANN GONCHAR, AIA

**Gensler's new 545-foot-tall** Tower at PNC Plaza is hardly the tallest skyscraper in downtown Pittsburgh. That distinction belongs to Harrison, Abramovits & Abbes's 841-foot-tall U.S. Steel Tower, built more than four decades ago. But even so, PNC can make some large claims for its new headquarters. The financial services corporation boasts that the $400-million project, which officially opened on October 1, is the greenest office tower—not just in the city, but the world.

The 33-story building may not be tall and trim, but the curved shaft, cranked so that its angled cap is oriented toward the sun, is one sign of its sustainable preoccupation. And these green aspirations didn't just come out of the blue. PNC's real-estate portfolio includes more than 250 LEED-certified buildings worldwide.

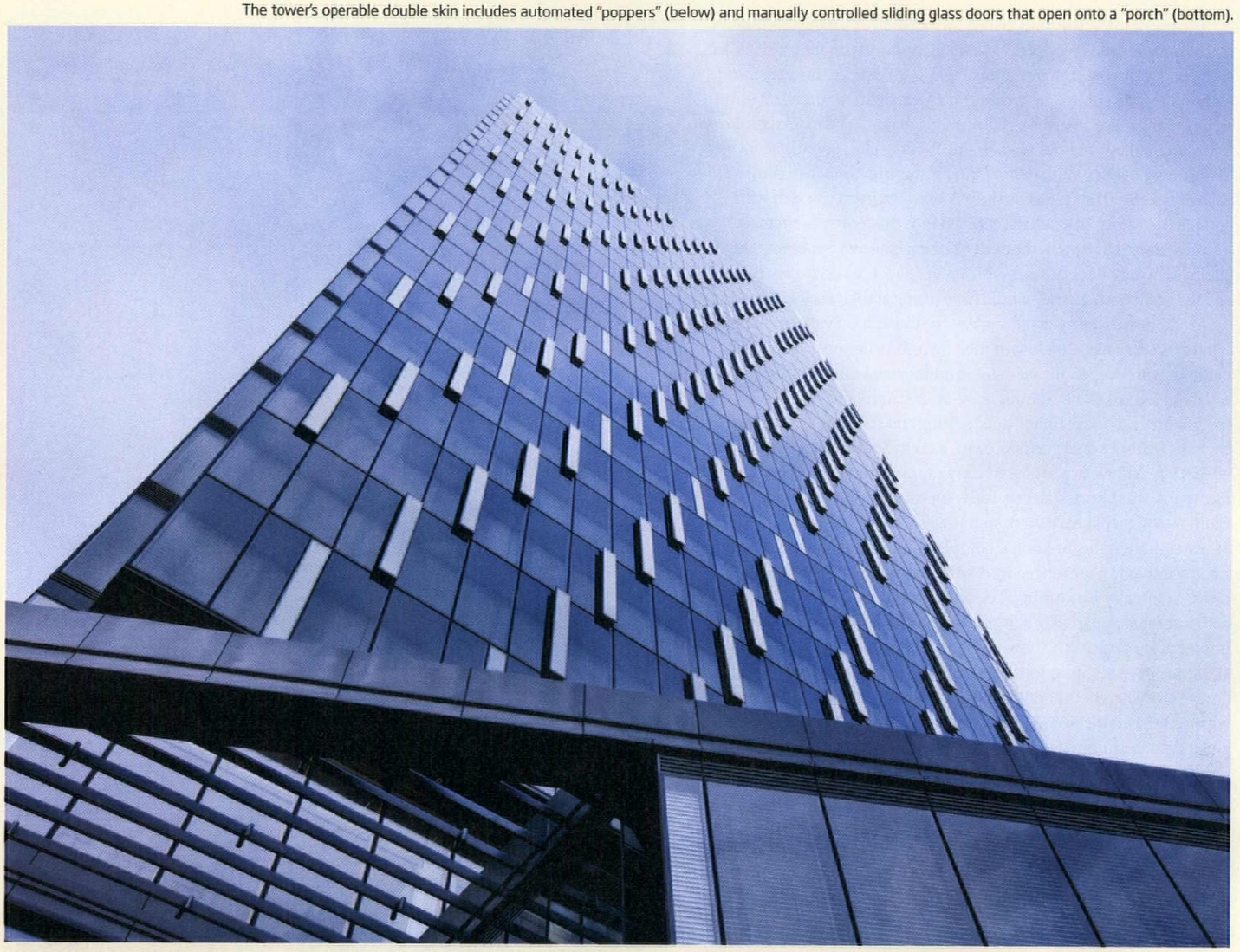
The new tower, which Gary Saulson, PNC's director of corporate real estate, refers to as "beyond Platinum," is designed to use about half the energy of a typical office building that complies with the 2007 version of the ASHRAE 90.1 energy standard. This anticipated performance is the result of a host of tightly integrated strategies, instead of one particular technology. But the single feature that may make the biggest contribution is the building's ability to "breathe": for about 42 percent of working hours, the tower will rely on operable windows and vents in its sophisticated glass skin to bring in fresh air, rather than using mechanical ventilation. This passive strategy works in tandem with active devices such as energy-recovery air handlers, high-efficiency boilers and chillers, and chilled beams, in a hybrid system developed by the project's mechanical and structural engineer, Buro Happold.

A solar chimney is literally at the center of the tower's innovative approach to bringing in fresh air. It comprises two shafts in the tower's core that extend from the lowest office floor to its crown, where they are joined by a 5,000-square-foot chamber topped with a glass roof. This cap, sloped and angled toward the south, includes a concrete slab under the glass that is ribbed and painted black in order to trap solar radiation. The configuration capitalizes on the stack effect, which creates a pressure draw. And when temperature and humidity conditions are ideal—primarily during the spring and fall—the system pulls fresh air through the operable facade, across the open office areas, and finally vents it through the solar chimney. During cooler weather, the chamber can also preheat outdoor air before distribution to the rest of the tower.

The envelope plays a key role in this climate-control scheme. The building has several double-skin types, but the primary one, cladding the north and south elevations, is made up of laminated glass on the exterior and an insulated glazing unit (IGU) on the interior, with a 30-inches-deep cavity incorporating automated shades in between.

CONNIE ZHOU

The tower's operable double skin includes automated "poppers" (below) and manually controlled sliding glass doors that open onto a "porch" (bottom).



## TEAM

**Architect** Gensler
**Engineers** Buro Happold (structural/MEP/FP); Civil & Environmental Consultants (civil)
**General Contractor** PJ Dick

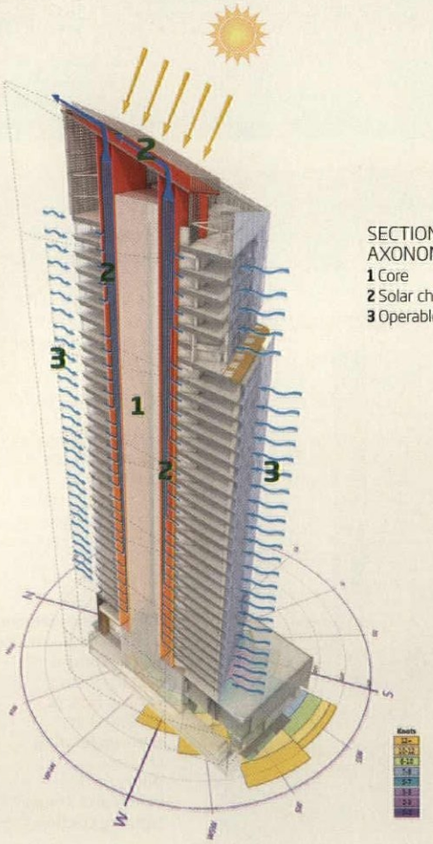
## SOURCES

**Metal Cladding** Centria
**Rainscreen** NBK
**Curtain Wall** Permasteelisa; Solar Innovations (wood inner walls and doors); Gartner (podium)
**Glass** PPG
**Skylights** Gartner
**Energy Management System** Automated Logic
**Shade Control** MechoSystems
**Facade Motors** WindowMaster
**Built-up Roofing** Firestone
**Doors** Dorma
**Paints and Stains** PPG
**Lighting Controls** Lutron

The operation of this skin, which includes tall and narrow windows on the outside called "poppers," and floor-level vents on the inside called "floppers," is almost entirely automated. However, occupants are given some individual control. By turning on a green light mounted on the ceiling of the office area, the building management system lets employees know when they can open wood-framed sliding glass doors that are part of the interior-facing skin without interfering with the active climate-control systems. They can slide these doors open just a crack, or wide enough to step out onto what is referred to as the "porch"—a metal louvered floor that runs in the cavity. The design team hopes that this feature will provide occupants with a more direct connection to the city and the outdoors than they would have sitting at their desks.

In addition to the open office areas, the tower has a variety of other types of workspaces—each with their own climate-control strategies—including those especially well suited for informal meetings and collaborative tasks. For example, west-facing, double-story "neighborhoods" have upholstered seating and small tables and are enclosed behind a dual glass skin with a cavity that is only eight inches wide. This shallow facade does not have poppers or floppers, but it incorporates automated shades and is continuously ventilated from the exterior to prevent heat gain from the late-day sun.

Even though the building is complete, and about half of its eventual 2,000 occupants have moved in, it will take time to understand how well it is actually performing. The tower's systems will be monitored and calibrated as part of the commissioning process. But it will also be important to understand how well employees take to their new home. Will they have serendipitous meetings with their colleagues in the double-story neighborhoods? Will they take advantage of the porches within the double skin? Will they open the sliding doors only when the green light is illuminated? "The tower will be successful," says the Gensler principal in charge of the project, Doug Gensler, "when users embrace their role." GS




SECTION/
AXONOMETRIC
**1** Core
**2** Solar chimney
**3** Operable skin

Double story "neighborhoods" provide space for collaborative tasks.

CONNIE ZHOU (PHOTOGRAPHY); GENSLER (DIAGRAM)

# Breaking the Curve

Architects designing Legacy Junior High School faced a challenge: create a space to inspire and excite students. Through lively community collaboration, the project came together, incorporating sinuous and sophisticated green metal contours hip enough to intrigue students.

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

Scan each product's QR code for detailed information.

**PROJECT:** Legacy Junior High School

**LOCATION:** Layton, Utah

**ARCHITECT:** VCBO Architecture

**CONTRACTOR:** All Metals Fabrication

**PANEL PROFILE:** PBU (Tundra / Laurel Green / Galvalume Plus®), Artisan (Tundra), Flat Sheet (Tundra / Laurel Green)

**SNAP 18**

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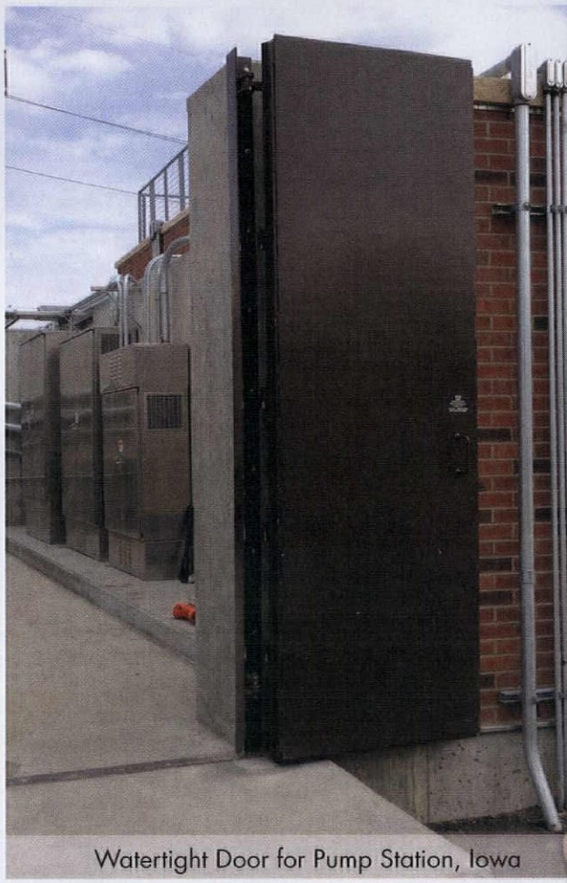

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**SNAP 27**

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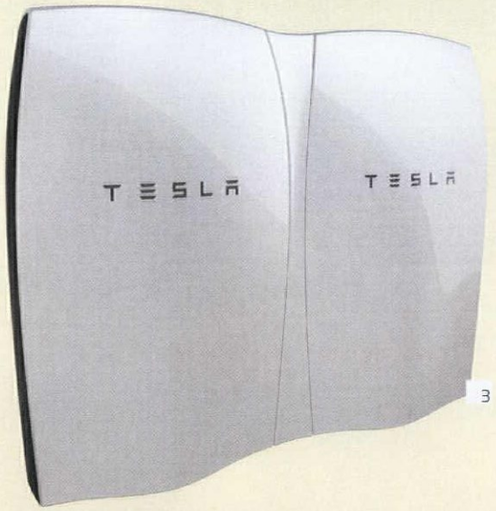
# PRODUCTS

For in-depth information about these products, circle item numbers on the Reader Service Card.

**On November 18 at the GreenBuild conference in Washington, D.C., BuildingGreen announced the 2016 winners of its annual Top 10 Green Building Products Award. Products that conserve energy, save water, and cut down on greenhouse gas emissions topped this year's contenders. Below are all 10 of BuildingGreen's winning products.**

2

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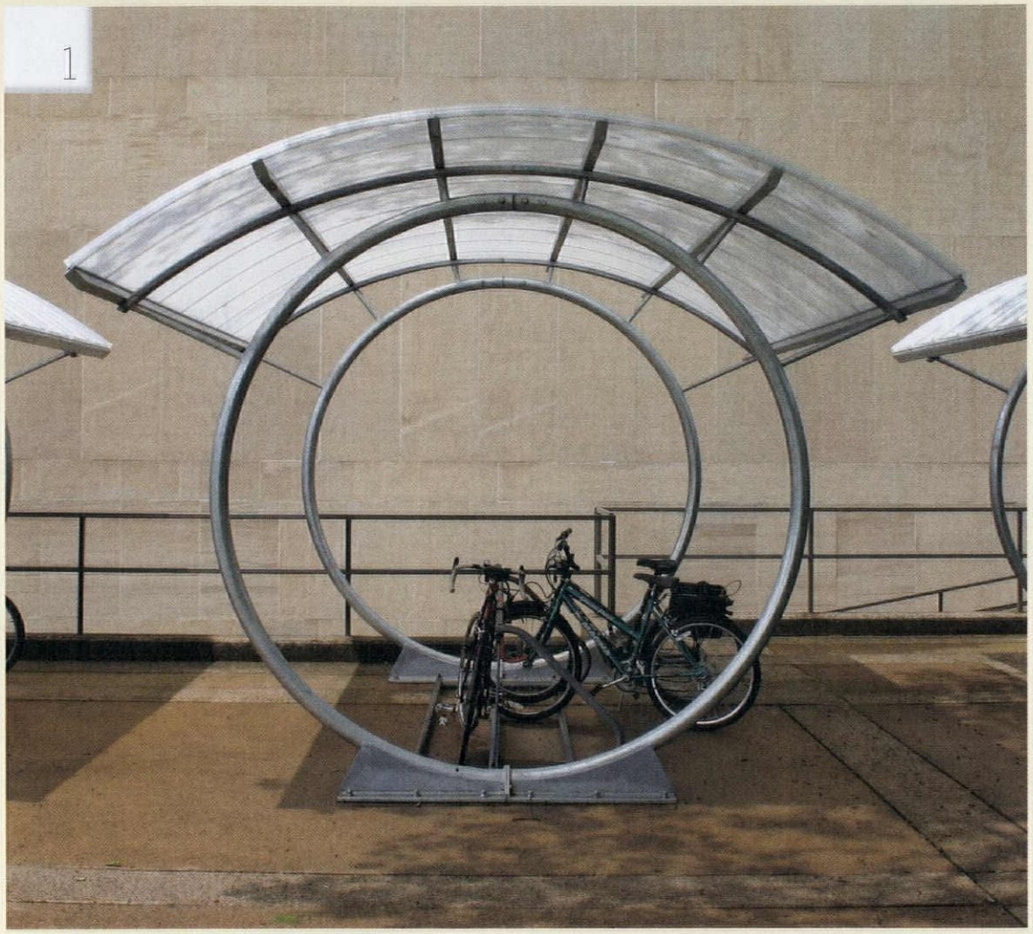

1

## 1 Duo-Gard Bike Racks and Shelters

**Duo-Gard**
**Canton, MI**
**duo-gard.com**

For venues that encourage two-wheeled transportation, Duo-Gard offers a variety of closed and open-air protection and lock stations that block rain, sun, snow, and other natural elements, all custom-built and designed to the customer's specs. Since 1984, Duo-Gard has been using high-performance translucent daylighting systems and strategies.

**SNAP #233**

## 2 High-Performance Panelized Homes

**Unity Homes**
**Walpole, NH**
**unityhomes.com**

Unity Homes offers fossil-fuel-free, affordable modular houses that can be constructed in under 30 days. Their flexible, scalable platforms–TreeHugger.com calls them "the greenest prefabs on the market"–are energy efficient and DIY-friendly as well. The company currently works with four design platforms that can be customized using CAD-CAM technology.

**SNAP #234**

## 3 Tesla Powerwall and Powerpack

**Tesla**
**Palo Alto, CA**
**teslamotors.com**

Moving off the power grid is a bit easier with Tesla Powerwall. Like a solar pack for a cell phone, Tesla has recently introduced a rechargeable lithium-ion battery for houses that charges and stores energy generated from solar panels. With a 7kWh storage capacity, in the course of one night Powerwall gathers a day's worth of power for most homes. For larger spaces, Powerwall can be doubled up.

**SNAP #235**

## 4 HybridCare Ventless Clothes Dryer

**Whirlpool**
**Benton Harbor, MI**
**whirlpool.com**

This ventless heat pump dryer uses a refrigeration system to dry and recycle hot, moist air instead of venting it, making this machine 40% more effective than any other dryer in the field. It has been called the most energy-efficient dryer sold in the United States, winning an Environmental Protection Agency 2014 Energy Star Emerging Technology award.

**SNAP #236**

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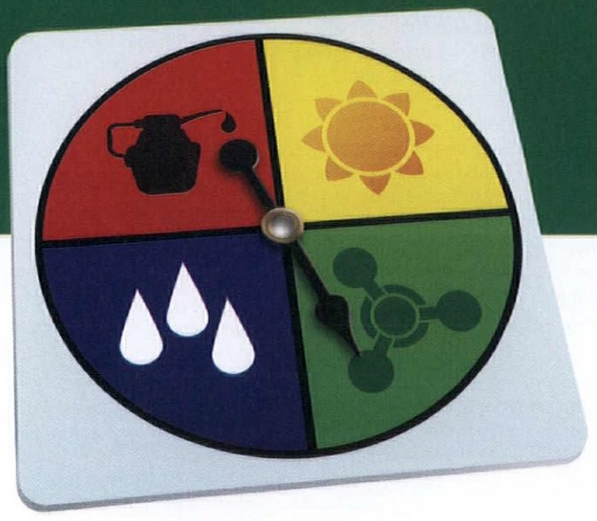

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# PRODUCTS

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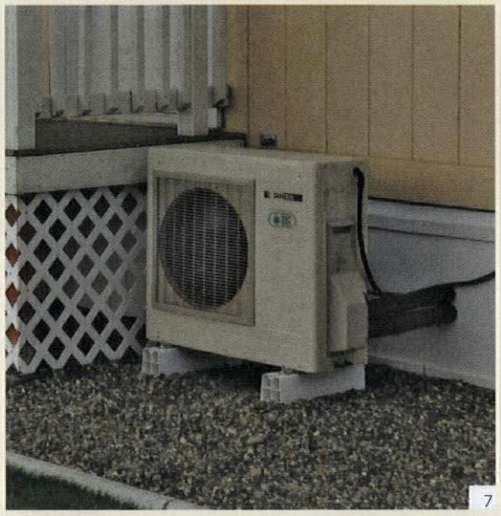
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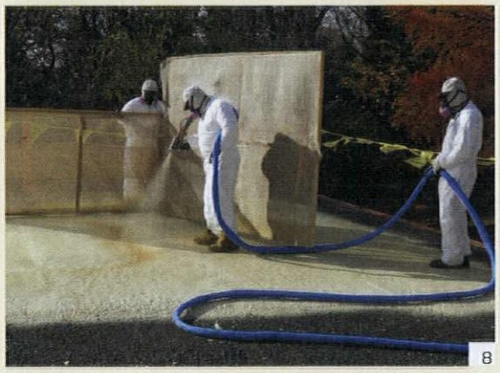
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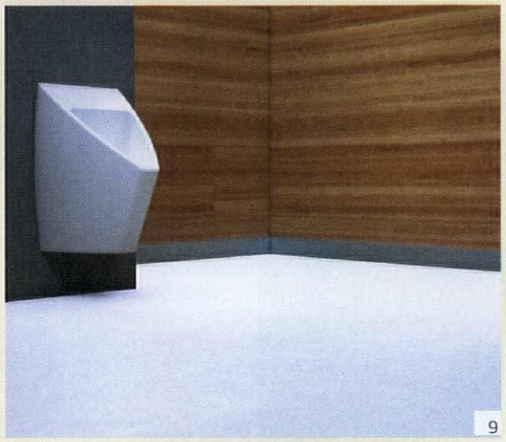
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## 5 Savor Guest Chair with Myco Board Backing

**Gunlocke**
**Wayland, NY**
**gunlocke.com**

Sustainable sitting is here. Gunlocke's Savor Guest Chair is the first contract furniture product to incorporate mushroom-material technology. The seat back is constructed entirely of Myco Board: agricultural byproducts (in this case, corn stalks) glued together with mycelium, the roots of mushrooms. Winner of Best of NeoCon Editor's Choice Award in 2014, the Savor is available in ash, maple, or walnut.

**SNAP #237**

## 6 Hyperchair

**Personal Comfort Systems**
**Berkeley, CA**
**personalcomfort systems.com**

An unusual solution to dramatically lowering heating and cooling costs: heat the person, not the building. The Hyperchair, designed at the University of California at Berkeley's Center for the Built Environment, looks like a task chair, but houses fans and heating elements to suit individual needs, lowering building energy usage by up to 50%. The Hyperchair has substantial pre-orders and is ready to manufacture.

**SNAP #238**

## 7 Water Heater with $CO_2$ Refrigerant

**Sanden**
**Plymouth, MI**
**sandenwaterheater.com**

A highly energy-efficient alternative to traditional gas or electric water heaters, this unique system has two parts connected by simple water pipes, with the outdoor unit extracting heat from the ambient air using $CO_2$ refrigerant. It reduces greenhouse-gas emissions, eliminates production of carbon monoxide, and recovers heat up to 50% faster than typical pumps.

**SNAP #239**

## 8 Solstice Liquid Blowing Agent

**Honeywell**
**Morris Plains, NJ**
**honeywell-blowingagents.com**

Honeywell's Solstice Liquid Blowing Agent is the latest advancement in foam blowing agent technology, and is a near drop-in replacement for liquid HFC alternatives. Solstice has a global warming potential (GWP) of 1, which is more than two orders of magnitude (99.9%) lower than current HFCs used in the industry. This blowing agent is nonflammable and cost effective.

**SNAP #240**

## 9 Hybrid Urinal

**Sloan**
**Franklin Park, IL**
**sloanvalve.com**

Sloan has a special component to its commercial restroom waterless hybrid urinal system, integrating a multi-patented urinal cartridge that features its revolutionary Jetrinse Solution technology. It keeps drains lines clean, hygienic, and odor- and clog-free, and uses only a single gallon of water for every 72 hours of use, enhancing the functionality of water-free design.

**SNAP #241**

## 10 Power-Over-Ethernet LED System

**NuLEDs**
**Place, NY**
**nuleds.com**

NuLEDs' new network-powered lighting system uses standard ethernet cables to carry both power and data to LED lighting. Using these networked low-voltage cables–as opposed to standard high-voltage wiring–helps buildings meet corporate sustainability goals while substantially lowering energy costs.

**SNAP #242**

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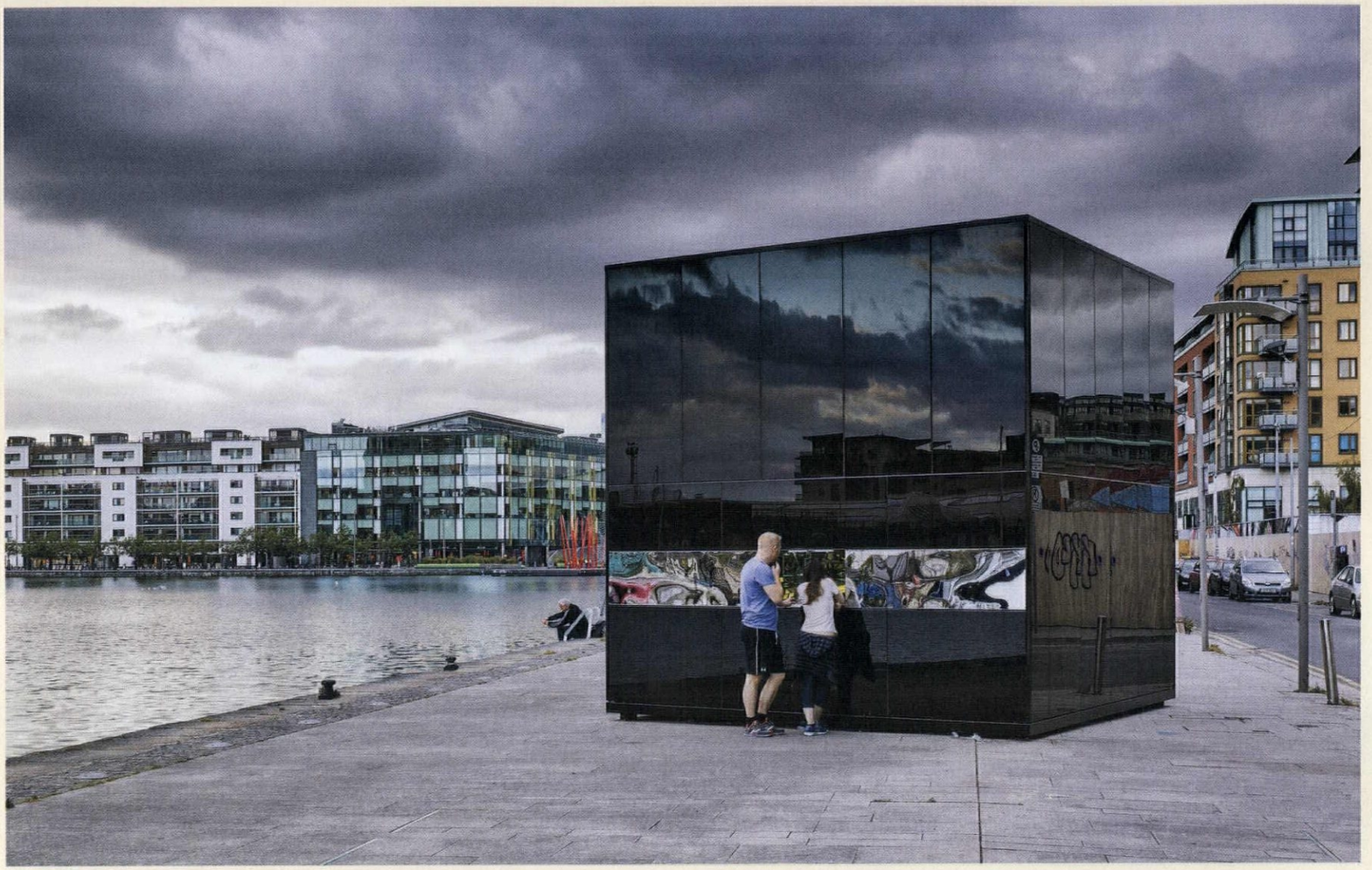
5CUBE photo: ROS KAVANAGH



EARTHWATCH

**The 4.8 million people of Ireland** consume 473 barrels of oil every five minutes—amounting to nearly 150,000 barrels each day. While these numbers sound vaguely unsettling, they are difficult to visualize. To put things into perspective, the Dublin-based firm De Siún Scullion Architects designed the 5CUBE, a transportable pavilion whose power lies in its sheer volume. Measuring 4.2 cubic meters, this glossy black cube represents those 473 barrels. As it turns out, five minutes of oil consumption looms high over people's heads.

After winning Ace for Energy's 2013 Imagine Energy competition, the 5CUBE was unveiled last June at Hanover Quay in Dublin's Docklands. Though robust, its steel structure is easy to dismantle and relocate; boxes of sand, rather than a permanent foundation, hold it in place. At any moment, it could be transported to another part of Dublin—but so far, it has remained at Hanover Quay. Roof-mounted photovoltaic panels and interior LED lights illuminate the pavilion at night; it stands at all hours as a silent monolith.

Project director Declan Scullion explained that the cube's toughened glass cladding was inspired by British sculptor Richard Wilson's "20:50" (1987), a permanent installation at London's Saatchi Gallery that features a room filled to waist height with crude oil. The cube "had to look as much like the reflective black-brown surface of oil as possible," Scullion says. On the cube's east elevation, a 50-centimeter-high reflective strip represents the amount of energy that comes from renewable resources in Ireland in the same five minutes. On the west side, a taller, similarly mirrored strip represents the country's 2020 target for renewable energy consumption.

Viewers peering into these strips can see the sky reflected and manipulated in various ways: on the east side is an illusion of a globe, and on the west side, a seemingly infinite stretch. For Scullion, these framed views of the sky represent the power locked in multiple forms of renewable energy: solar and wind energy manifest themselves in the movement of the sun and clouds, and storms showcase tidal energy. "Framing a view has a funny effect on our perception," Scullion says. "Suddenly the scale and speed of objects within the frame become more understandable."

Pitting the potential of renewable energy against a mere five minutes of oil use, the 5CUBE confronts passersby with the haunting reality of exactly what Ireland's energy consumption looks like. GS

**BY REBECCA SEIDEL**

**CRITICAL POINT**

HANOVER QUAY
*Dublin, Ireland*
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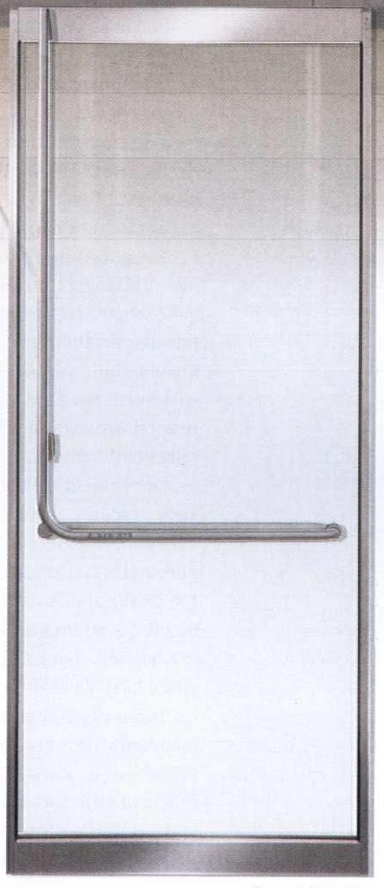

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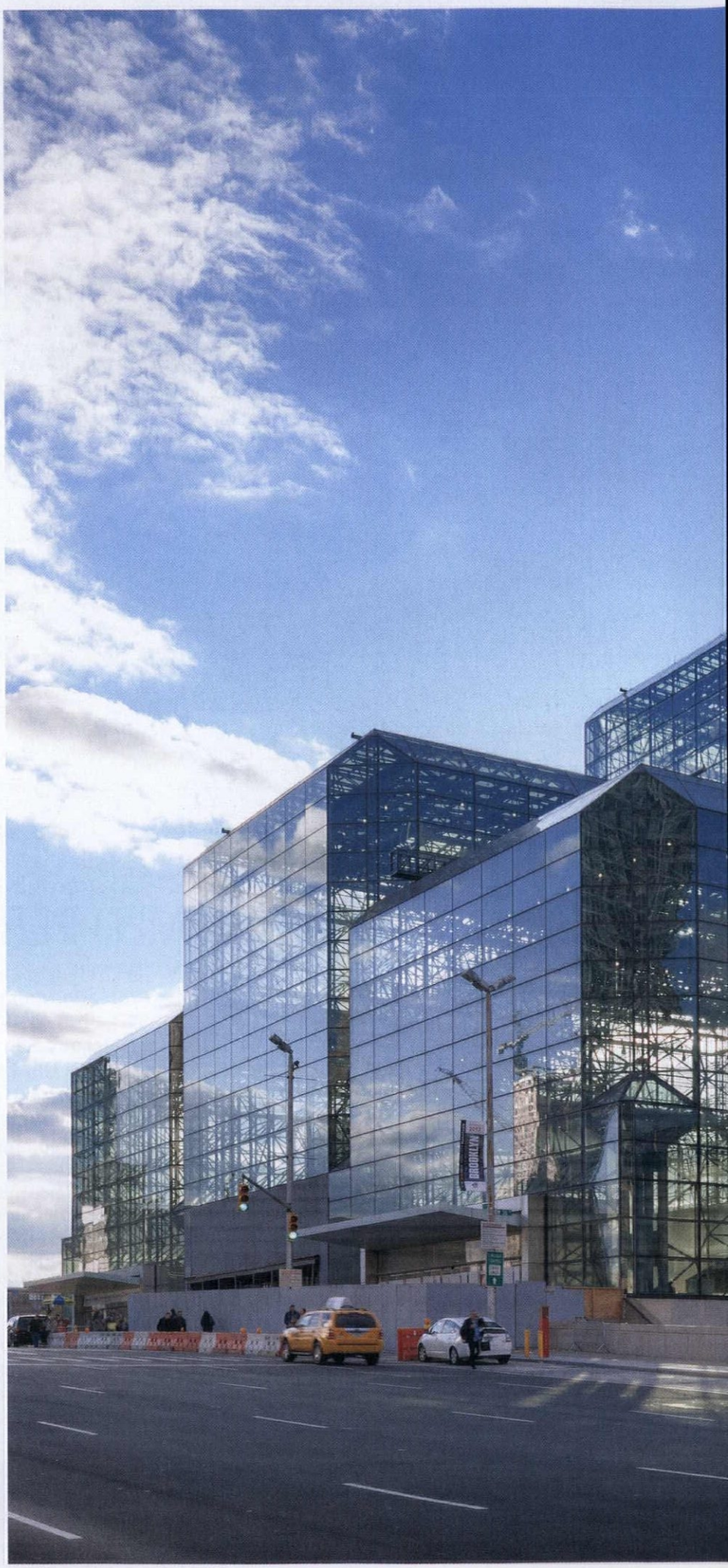
**SNAP 6**

# For the Birds

*Three projects demonstrate how glass buildings can be designed to protect our feathered friends from deadly collisions.*

BY KATHARINE LOGAN



PHOTOGRAPHY: © CHRIS COOPER

**CLEAR THINKING** As part of their renovation of New York's Javits Center, FXFOWLE and Epstein replaced the building's dark, reflective curtain wall with transparent glazing. The new cladding incorporates a frit pattern that helps birds perceive the glass.

**EVERYONE HAS** heard the thunk of a bird hitting a window. It's startling, and then it's just plain sad. But what few of us realize is how widespread the problem is. Across North America, buildings account for hundreds of millions of bird deaths annually—perhaps more, according to the nonprofit organization American Bird Conservancy. A running estimate of North America's collision-killed birds—posted online by Toronto's Fatal Light Awareness Program, another nonprofit—ticks along at roughly 30 bird deaths per second. After habitat destruction, collisions with buildings are the single biggest killer of birds.

If birds are plummeting to the ground in such mind-boggling numbers, why aren't the streets littered with their carcasses? Scavengers, such as gulls and raccoons, get to them, quickly learning which buildings yield the most pickings. Maintenance workers dispose of them. And in some cities, conservation groups collect them as part of their efforts to promote awareness and to push for change and research.

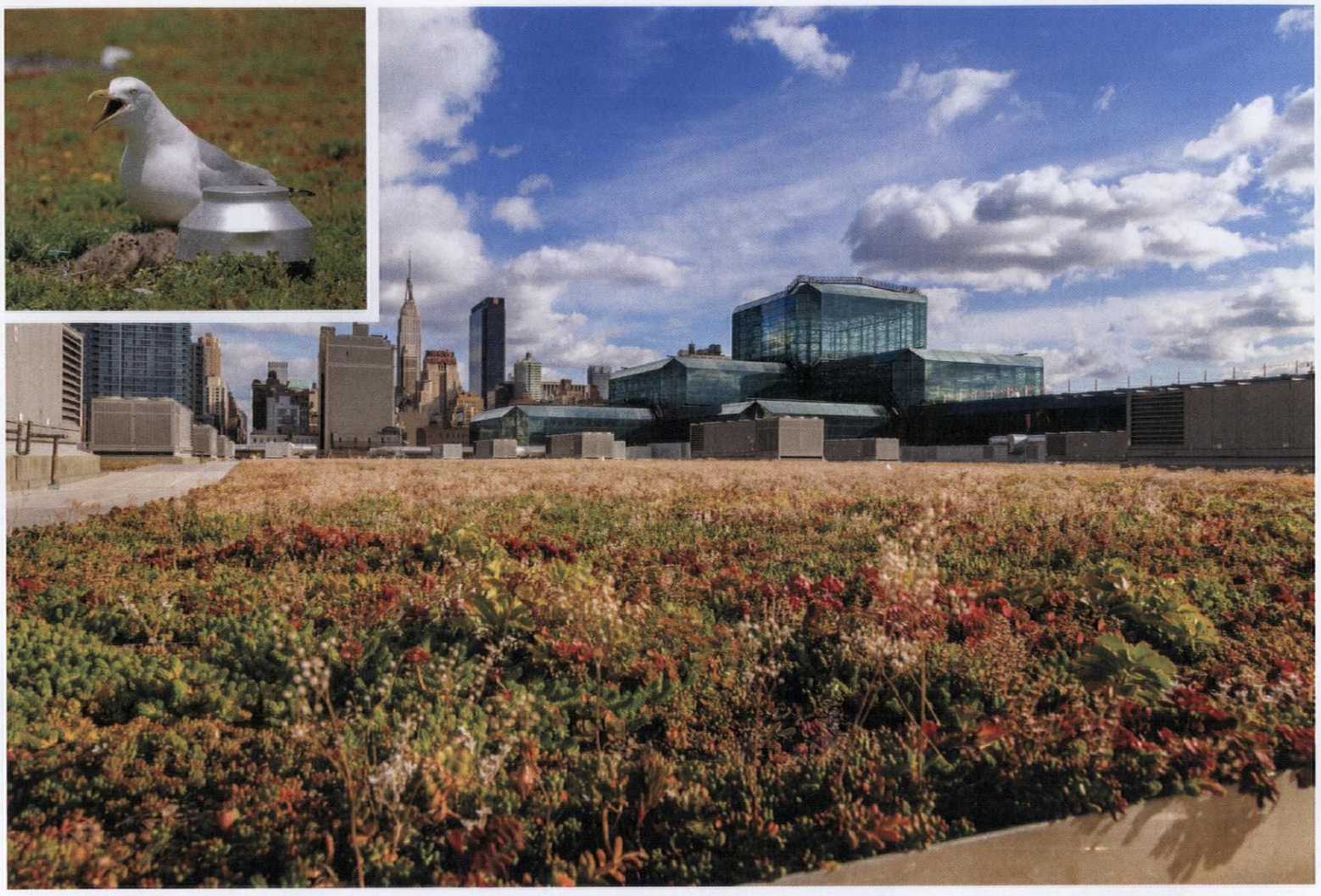
Buildings kill birds in three primary ways. The greatest daytime hazard is glazing that reflects habitat or sky. Transparent glazing is also a significant hazard when it offers a view of plants or appears to offer unobstructed passage through the building. In both cases, birds try to fly through the glass. At night, migratory birds navigate in part by starlight. Light-emitting buildings act as beacons, luring birds and causing them to collide with the facades.

The good news is that with awareness and know-how, a building can be designed or retrofitted to pose almost no hazard to birds at all. "You don't have to compromise aesthetics or functionality as long as you've got imagination," says Christine Sheppard, an ornithologist who heads the American Bird Conservancy's collision-reduction program. "You don't really have to compromise anything at all."

One project that illustrates Sheppard's point is New York's Jacob K. Javits Center, a 1.8 million-square-foot convention center designed by Pei Cobb Freed & Partners and first opened in 1986. A recent renovation by FXFOWLE and Epstein not only redeems the dark glass building—infamous for its visual kinship with Darth Vader's helmet—but it also transforms one of the city's worst bird killers into a bird sanctuary.

The Javits Center, originally clad entirely in a thermally unbroken, gray-bronze glass curtain wall, was a reflective box and leaked from the start. In order to make the building more transparent and improve its energy and weather performance, the architects decided to reclad it. The strategy also allowed FXFOWLE to make the

THE BRONX



**HAZARD TO HAVEN**
The Javits's new green roof (above), the second largest in the country, with almost seven acres of mixed-sedum plantings, attracts birds from a number of species, including herring gulls (inset).

glazing more bird-safe, a priority for the firm's founding principal, Bruce Fowle, who has been incorporating bird safety into his work for more than a decade. "We kind of slipped the bird-safe aspect in," he says. "If I'd had to get extra money for it, I'm not sure I could have done it."

To make the Javits Center more expressive, the redesign assigned glazing to the public areas and clad the remainder in stainless-steel panels, shrinking the scale of the bird hazard, which is mainly a function of glass area. To make the building more transparent, the design team specified glazing that would lower the building's reflectance from 35 percent to 8 percent (less than 15 percent is generally better for birds, notes Fowle). The architects then worked with the glass manufacturer's paint shop to develop a frit tint and pattern that would provide the overall look and level of glare reduction and solar shading desired.

The design team also made sure the pattern complied with the "2-by-4 rule," which is derived from research showing that most birds won't try to fly through horizontal spaces fewer than 2 inches high or vertical spaces fewer than 4 inches wide. Using this rule, a pattern covering as little as 5 percent of the glass surface can deter 90 percent of strikes, according to tests conducted by Austrian researcher Martin Rössler.

The Javits Center's dot-pattern frit is located on the insulated glazing unit's No. 2 surface—the cavity-facing side of the exterior lite. The frit would be more readily perceived by birds and therefore more effective, explains Fowle, had it been on the first surface—the outside of the exterior lite. However, the team opted for a second-surface frit due to concerns about durability (few manufacturers offer or warranty first-surface frits). Nonetheless, a study conducted by New York City Audubon and Fordham University found a 90 percent reduction in the number of birds killed on the Javits Center since the renovation. (The only post-renovation strikes have occurred on an area near the entrance where the frit was not used.)

The new Javits goes beyond hazard reduction and now serves as a bird refuge. The building boasts the second-largest green roof in the country, with almost seven acres of mixed-sedum plantings that decrease stormwater runoff, mitigate heat-island effect, and improve energy performance. The vegetation also provides a welcome urban habitat for native and migratory birds. Hundreds of birds of a dozen or so species—including swallows, starlings, geese, gulls, and even some juvenile kestrels—have been spotted there.

Besides fritting, strategies for reducing the hazard factor of glass include energy-performance options such as exterior screens, grilles, shutters, and blinds, and aesthetic and privacy options such as etching, sandblasting, and texturing. Patterned films can be used to help make transparent site elements more evident to birds or to economically retrofit reflective windows.

For the new U.S. Embassy in London, designed by KieranTimberlake and scheduled for completion in 2017, a 12-story glass cube will be wrapped in an outer envelope of translucent white kite-like components, linked to form a ridged lattice of four-point stars. The

PHOTOGRAPHY: © DAVID SUNDBERG/ESTO (ABOVE); COURTESY NEW YORK CITY AUDUBON (TOP LEFT)

**LAYERED LATTICE**
Three facades of KieranTimberlake's U.S. Embassy in London are covered with an ETFE lattice that breaks up reflections of the surrounding park (inset). The fourth, north-facing elevation (top) includes a star-pattern frit.

lattice, made of ethylene tetrafluoroethylene (ETFE) film, projects from the building's curtain wall to reduce solar gain, cut glare, and admit an even, diffuse daylight, while still allowing occupants generous views of London. Photovoltaic cells on the skyward surfaces of the ETFE elements will harvest solar energy, and the entire assembly will interrupt downdrafts, making for more comfortable outdoor spaces below. Not least, the outer envelope is intended to deter bird strikes.

London's amateur ornithologists have inventoried a surprisingly large population of migratory and resident birds in the vicinity of the new embassy; there are even endangered redstarts nesting nearby. So birds will certainly be making themselves at home in the embassy's OLIN-designed park, with its pond, gardens, shrubs, and trees.

"If you're creating an attractant, you have to be very certain that you're not also creating a hazard," says Roderick Bates, a KieranTimberlake associate and author of the firm's study on bird-strike deterrence.

In any bird-strike deterrent strategy, the height of the adjacent habitat defines the critical zone: as a general rule, that often means a building's lower three stories, or 40 feet above grade. The embassy's approach to bird-friendly design, as well as to its security strategy, keeps shrubs and trees away from the face of the building. A colonnade wrapping all four sides of the structure shades the upper portion of the ground-floor glass, thereby reducing reflections. By recessing the glass, the colonnade restricts the vantage points from which birds can see reflected habitat.

Above the ground floor, the ETFE lattice breaks up reflections on three sides of the building. On the north side, which has no outer envelope, a star-pattern frit generates the visual noise birds need to perceive the glass. The density of the frit is designed so that spaces between pattern elements are no bigger than "about the palm of a hand," says Bates, which compares to the 2-by-4 rule's 4-inch width for vertical spaces.

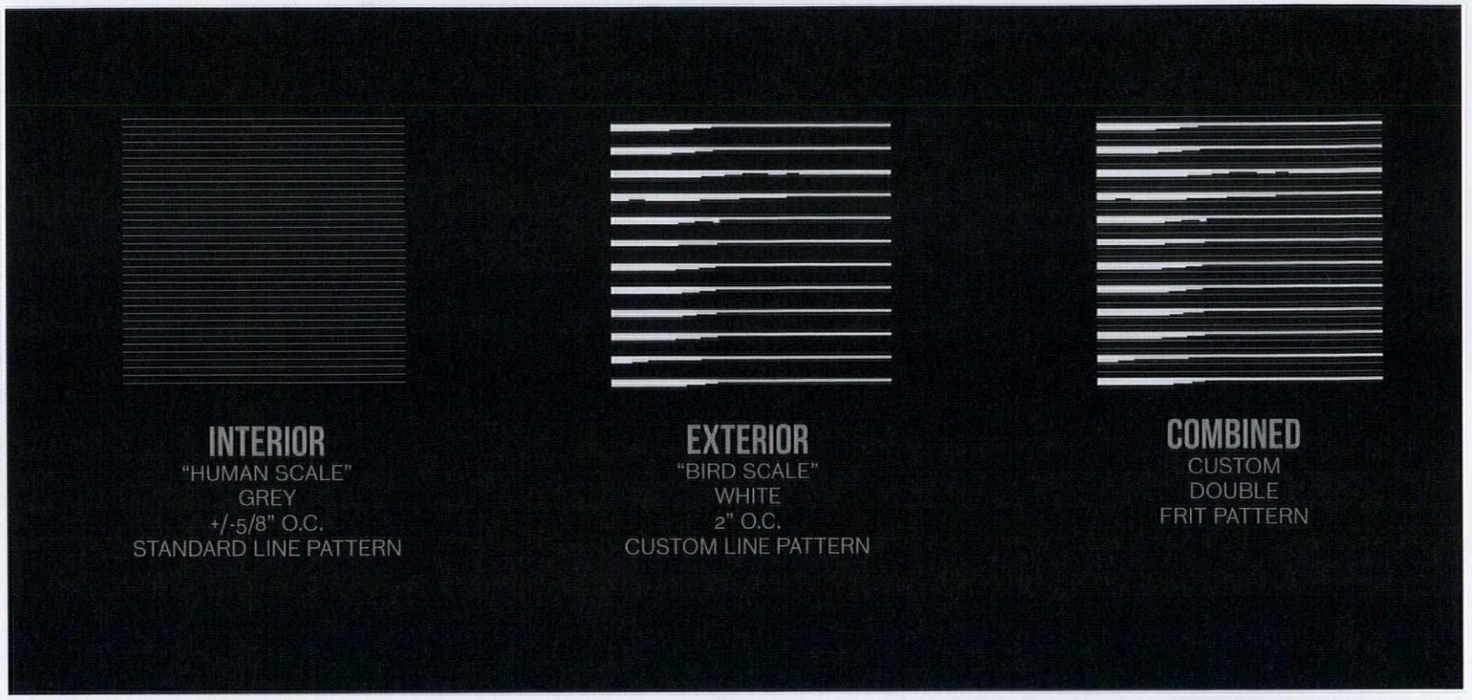
Although bird-safe design can successfully slip along in the wake of other priorities, some projects put bird safety front and center, treating it as an opportunity for architectural expression. For the Integrated Science Center (ISC) at Vassar College in Poughkeepsie, New York, the client "wanted us to use every [bird-friendly] trick in our bag," says Guy Maxwell, a partner at Ennead, the firm designing the 157,000-square-foot facility slated to open at year's end.

The ISC brings Vassar's science departments together in a two-story structure that spans a small ravine and creek. The building, arched in plan, provides views into a wooded landscape and enables students to use the surroundings as an outdoor lab.

From the perspective of bird safety, the arboretum setting means that any glass on the building's facade will reflect the attractive habitat and entice birds. To reduce the risk, the design team deployed bird-friendly strategies for each facade.

On the narrow southwest end of the building, a dense pattern of shading devices works to cut off the sky, providing elements that birds can see in front of the glass. On the convex southeast face of the building's curved plan, a fully glazed corridor runs the length of the building at ground level. However, the

IMAGE: © KIERANTIMBERLAKE/STUDIO AMD




**LINE UP**
For Vassar College's Integrated Science Center, architects at Ennead developed an innovative dual-frit window pattern on the glass. The design, which birds can see in any light, combines pale-gray broken horizontal lines at 2 inches on center with dark-gray horizontal lines at ⅝ inch on center.

IMAGES: © ENNEAD ARCHITECTS

**STRAIGHTFORWARD**
Vertical shading fins on the upper levels of Vassar's ISC reduce reflections that can disorient birds.

overhang of the upper level recesses the glazing, limiting reflections of sky and narrowing the angle from which birds can see habitat reflections. On the upper levels, vertical shading fins similarly reduce reflections and birds' angle of view to the glass.

"But that's not enough," states Maxwell. For the project's southeast- and north-facing glass, where views to the landscape were especially desirable, the design team selected a glass treatment that takes advantage of birds' ability to see ultraviolet light. The glazing includes a patterned 2-by-4-compliant UV-reflective coating on its No. 2 surface, so it's visible to birds while remaining virtually invisible to humans.

The concave northwest face of the building is composed of alternating vertical slices of cementitious panel-clad wall and glass. For this glazing, designers wanted a frit that would provide a contrast no matter how the sunlight varied over the course of a day or season. Their solution was an innovative dual frit: on the glazing unit's No. 2 surface, light-gray broken horizontal lines at 2 inches on center; on the No. 3 surface (the cavity-facing side of the interior lite), dark-gray continuous horizontal lines at ⅝ inch on center. The two patterns, separated by the depth of the glazing-unit cavity, create an impression of movement, as a moiré does. "Whatever the light is like," explains Maxwell, "at least one of these patterns will show up."

The shared bird-safe priority of the ISC's architects and clients affects more than the building's facades. The smooth arc of the building's form, its slender hollow structural elements suspended from an overhead truss, and the lightness with which it touches the earth express an underlying affinity for the birds, who make their home in the site surrounding the ISC.

While daytime bird-friendly strategies offer scope for enriching a work of architecture, nighttime strategies are more simply a matter of preventing light pollution. At the ISC, for example, exterior uplighting is avoided altogether; shielded fixtures are used instead. LED downlights are embedded in entry-ramp handrails, safely lighting the path without spilling light into the environment. To minimize light trespass from the building's windows, the main corridor will be illuminated at low levels, while occupancy sensors will shut off lighting in classrooms, labs, and offices when they're not in use.

Light pollution's greatest danger is to migrating birds, especially on overcast nights, when the birds descend to lower altitudes. The lights of tall buildings and brightly lit shorter buildings tend to draw birds in among the glass walls of a city, where trees and plants in illuminated interiors present a fatal attraction.

As awareness of this issue grows, jurisdictions across North America are increasingly adopting lights-out programs, design guidelines, and regulations to reduce bird strikes. LEED's bird-strike deterrence pilot credit, rolled out in 2011, has proven to be the rating system's most popular pilot ever.

These efforts acknowledge the tremendous value of birds. They pollinate plants, disperse seeds, and keep insects in check. They create flashes of experience for city dwellers, reconnecting them to nature. They enliven the built environment with their flight, color, and song. And they're entitled to life in their own right. Whatever goes into making a building more bird-safe, says the American Bird Conservancy's Christine Sheppard, is worth it. ■

KATHARINE LOGAN IS AN ARCHITECTURAL DESIGNER AND WRITER FOCUSING ON SUSTAINABILITY AND WELL-BEING IN THE BUILT ENVIRONMENT.

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**Learning Objectives**

1. Describe the factors that often make building glazing deadly for birds.
2. Outline some of the measures that can be implemented in new construction projects to prevent birds from colliding with buildings during daytime hours.
3. Describe bird-friendly measures that can be easily implemented on existing buildings.
4. Outline strategies for protecting migratory birds from nighttime building-related hazards.

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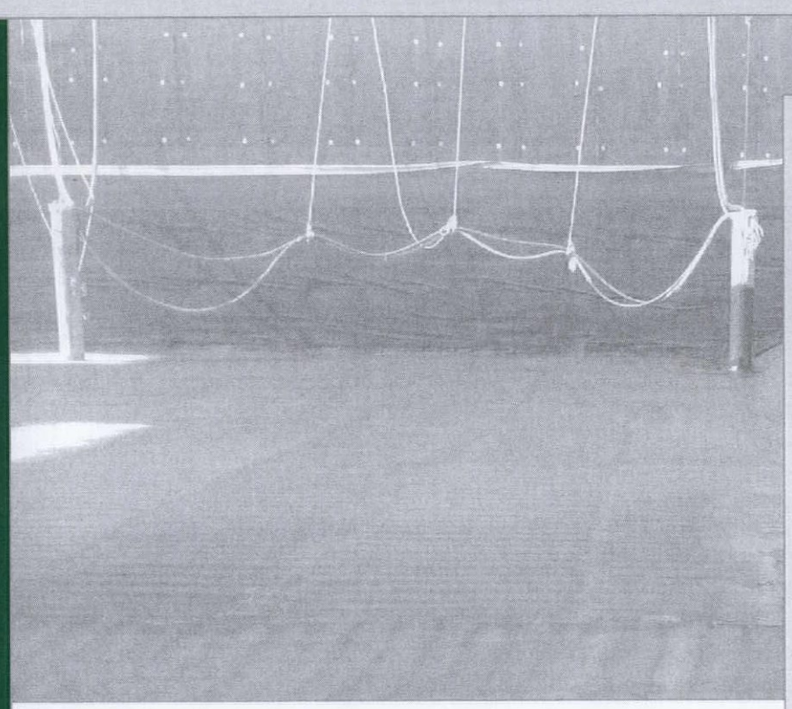

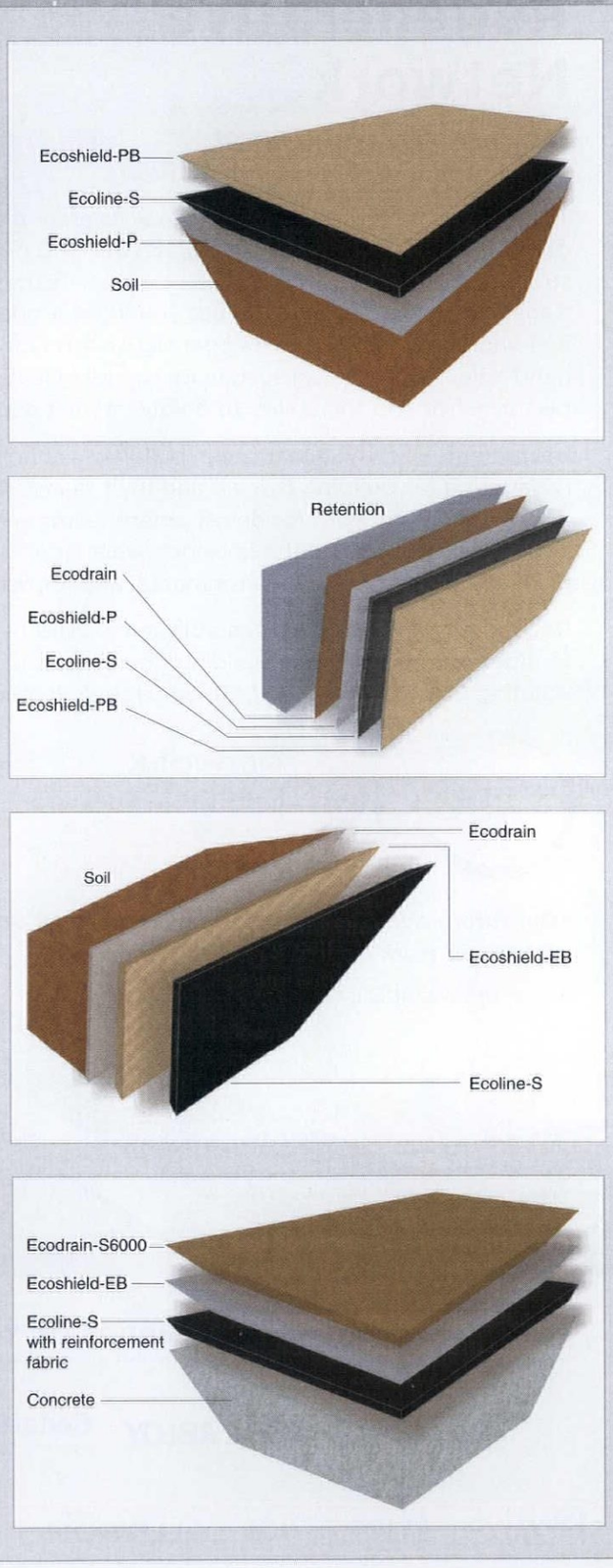


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**SNAP 38**

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Made of fiberglass-filled polypropylene, the Stilla line of tables and chairs may be used indoors or out. **(SNAP #243)**

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Products for conditioning, moving, holding, and otherwise controlling air, water, and other fluids. Includes plumbing products, fans, ventilators, and boilers.

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Products for constructing the building envelope, such as exterior wall and roof panels, sheathing, thermal insulation, and waterproofing.

**Specialty Products** Pgs. 93-96

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.

# PRODUCT SPOTLIGHTS


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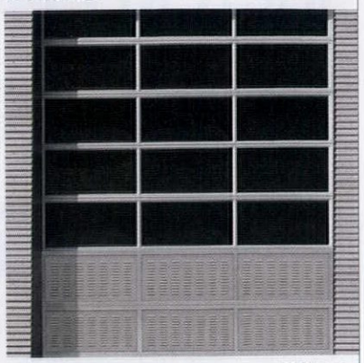

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DOORS, WINDOWS

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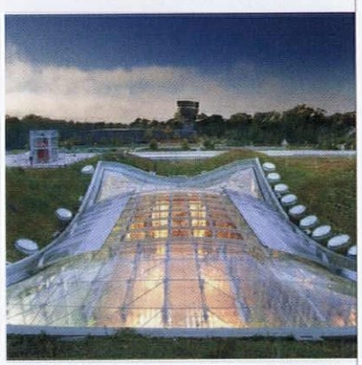

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DOORS, WINDOWS

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DOORS, WINDOWS

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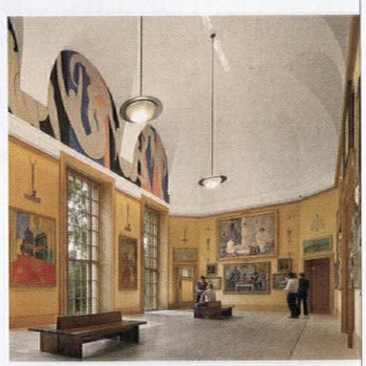
- NWDA tested; commercial grade
- Hurricane/impact performance class: Wind Zone 3, Missile Level D



www.durathermwindow.com
800.996.5558 | Timothy Downing

SNAP 248

DOORS, WINDOWS

## DOOR HINGE SAFETY GUARDS

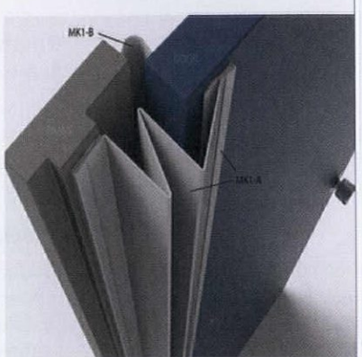
**$**

**Fingersafe USA**

Full-length door protection that blends with existing hardware and folds flat against the frame. Designed for commercial use to avoid amputation, damaged fingers and costly insurance claims.

**Product Application**
- Schools, heath care, military CDC

**Performance Data**
- 4-hour fire door rating
- UL listed
- Retrofitted
- Unimpeded operation
- Made in the USA




www.FingersafeUSA.com
888.FINGSAF

SNAP 249

DOORS, WINDOWS

## CHURCH WINDOWS

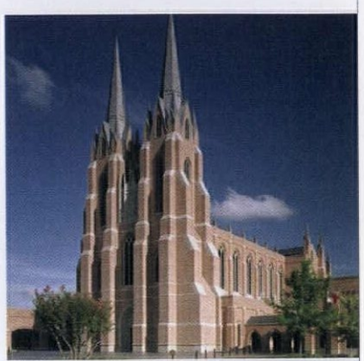
**$$$ I GREEN**

**J. Sussman, Inc.**

Specially designed window frames made to receive art glass and insulated protection glass for superior condensation resistance and insulation.

**Product Application**
- Triple-glazed thermal barrier design
- Specializing in custom shaped frames

**Performance Data**
- 3-1/2 in. deep, AP-HC70, FW-AW80
- Integral venting
- Hurricane/impact approved
- Thermal strip technology will not shrink or crack
- Dual color availability; BIM available



www.jsussmaninc.com
718.297.0228 | Terresa Teh

SNAP 250

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# PRODUCT SPOTLIGHTS


| | | |
|---|---|---|
| **DOORS, WINDOWS** | **PGS.** | **82-86** |
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| Roofing, Siding, Thermal & Moisture Protection | Pgs. | 91-93 |
| Specialty Products | Pgs. | 93-96 |


DOORS, WINDOWS

## CLOSURE SYSTEMS

### MobilFlex Folding & Rolling Closures Inc.

MobilFlex provides imaginative options for a wide range of storefront entrance and space delineators.

**Product Application**

- Malls, window protection, banks, schools, hospitals, airports, ships, reception desks

**Performance Data**

- Any layout, any radius curve
- Large spans – up to 19 ft high, 200 ft wide
- Distinctive looks, rugged protection

www.mobilFlex.com
800.501.3539

SNAP 251

DOORS, WINDOWS

## CAST IRON DOOR CLOSER

**$$$**

### Norton Door Controls

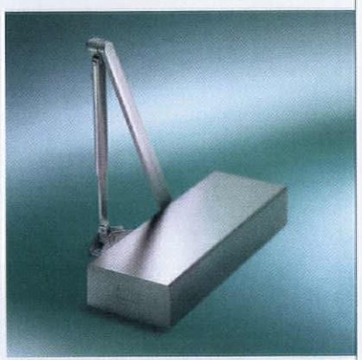
Ideal for high-use openings, the Norton 9500 Series Cast Iron door closer offers durability, flexibility and strength.

**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 & verified by UL)
- 25-year limited warranty



www.nortondoorcontrols.com
704.233.1586 | Lana Kirkpatrick

SNAP 252

DOORS, WINDOWS

## ADJUSTABLE SEALING SYSTEMS

**$$**

### ZERO INTERNATIONAL An ALLEGION Company

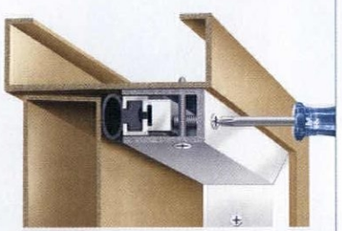
Full selection of jamb applied, adjustable seals for wood or metal doors

**Product Application**

- Positive pressure ratings from 45 to 90 Min
- For single or pairs
- Solid neoprene and heavy gauge Aluminum
- Varied Finishes or Stainless Steel option

**Performance Data**

- Tested for smoke, sound, air
- Strike and cover plate options



www.zerointernational.com
1.718.585.3230 | jerry.heid@allegion.com

SNAP 253

DOORS, WINDOWS

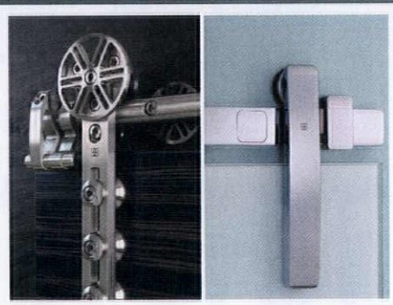
## SLIDING DOOR HARWARE

### Specialty Doors

100% Made in Germany
World's largest selection of sliding door hardware.

**Product Application**

- Offices
- Restaurants
- Hotels
- Closets
- Health care
- Bathrooms



www.barndoorhardware.com
310.648.7601 | Tom Gross

SNAP 254

DOORS, WINDOWS

## CLEAR SOLUTION FOR ALL 45-MIN. APPLICATIONS

**NEW | $**

### SAFTI FIRST Fire Rated Glazing Solutions

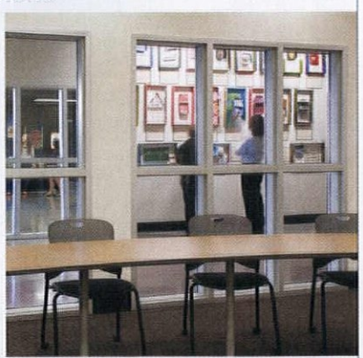
There's nearly clear—then there's clear. SuperLite II-XL 45 offers the best clear solution for all 45-minute applications at a better price than ceramics. Proudly USA-made.

**Product Application**

- Doors
- Windows, sidelites, transoms

**Performance Data**

- ASTM E-119 with hose stream
- CPSC Cat. II safety
- 40 STC
- UL/WHI listed in large sizes



www.safti.com/best45
888.653.3333

SNAP 255

DOORS, WINDOWS

## ONE-PIECE HYDRAULIC & LIFT- STRAP BIFOLD DOORS

**WR**

### Schweiss Doors, Moving Walls

Schweiss Doors manufactures unique custom doors. One-piece hydraulic doors and patented Lift-Strap opening/closing bifold doors.

**Product Application**

- Moving doors and walls
- You think it, they build it
- Custom-designed storefronts and more

**Performance Data**

- Faster, safer operation
- Zero lost headroom
- Superior design that keeps working

www.schweissdoors.com
507.426.8273 | schweiss@schweissdoors.com

SNAP 256

DOORS, WINDOWS

## INVISIBLE HINGES

**$$ | NEW**

### Rocyork Architectural Opening Solutions

Make your door disappear with the new Rocyork concealed door hinge from Ezyjamb. With 6-way adjustment and a maintenance-free mechanism, Rocyork hinges offer the best of European design/production.

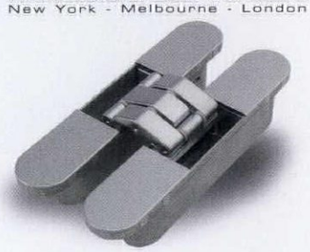
**Product Application**

- Condominiums, multifamily
- Offices, residential, health care

**Performance Data**

- Fire rated
- Available in a variety of weight capacities
- Allows uninterrupted clean lines around internal doors

ROCyork
Architectural Door Furniture
New York - Melbourne - London



www.rocyork.com
800.675.8023

SNAP 257

DURAVIT

Sanitaryware, bathroom furniture, bathtubs, shower trays, wellness products and accessories: Duravit has everything you need to make life in the bathroom a little more beautiful. New for the pro - pro.duravit.us. More info at Duravit USA, Inc., Phone 888-DURAVIT, info@us.duravit.com, **www.duravit.us**

# PRODUCT SPOTLIGHTS


| | | |
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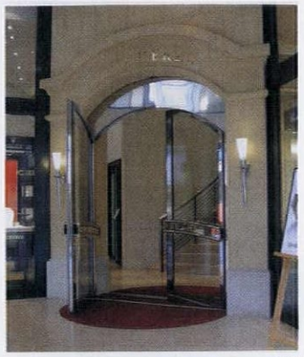
| Specialty Products | Pgs. | 93-96 |


DOORS, WINDOWS

## IN-FLOOR ELECTROMECHANICAL SWING DOOR OPERATOR

**WR**

**Tormax Technologies, Inc.**



Fully concealed in-floor operator was designed for rigorous conditions of commercial use for doors weighing up to 1,000 lb.

**Product Application**
- Buildings that meet the Historic Preservation Society guidelines

**Performance Data**
- Solid glass, wood, metal, fiberglass and/or arched doors
- Elevated design for convenience, comfort, safety
- Eco-friendly, 110-VAC electromechanical operator

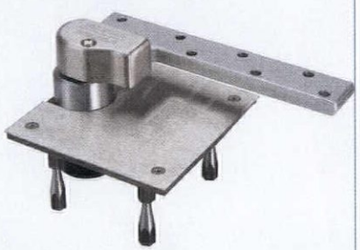
www.tormaxusa.com
888.685.3707

SNAP 258

DOORS, WINDOWS

## HEAVY-DUTY PIVOT SET

**Rixson**



Rixson's L117 pivot is the ideal way to hang a heavy door that does not need to be self closing.

**Product Application**
- Exterior or interior doors
- Lead-lined, heavy or high-traffic doors

**Performance Data**
- Weights up to 1,750 lb
- Available for fire door assemblies
- Doors will swing 180°, trim permitting

www.Rixson.com
704.233.1586 | Lana Kirkpatrick

SNAP 259

DOORS, WINDOWS

## ZIPPER ROLLER SHADES KEEP THE LIGHT OUT

**MechoSystems**

The ShadeLoc® system allows for solar and blackout shades to be used on windows, providing optimal coverage via the special zipper fastening system along the edges of the shades.

**Product Application**
- Large windows
- Hospitality environments
- Museums and conference rooms

**Performance Data**
- Multiple shades on adjoining windows can operate with one motor
- Side channels available in different colors, profiles

www.mechosystems.com/ShadeLoc
718.729.2020 | William Maiman

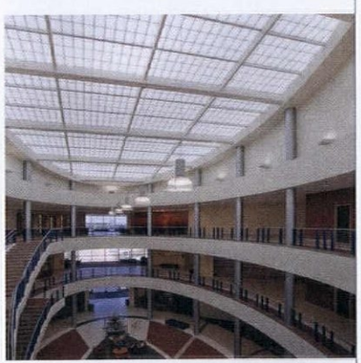
SNAP 260

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

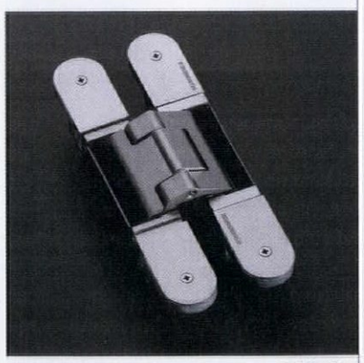
SNAP 261

DOORS, WINDOWS

## ADJUSTABLE CONCEALED HINGES

**$$$**

**SIMONSWERK North America, Inc.**



The TECTUS 3-way adjustable concealed hinge series for doors offers designers and architects an entire range of hinges for different architectural openings.

**Product Application**
- Hospitality – Armani Hotel, Burj Khalifa, Dubai, U.A.E.
- Residential – 2012 Olympic Village, London, U.K.
- Retail – Apple Retail Stores, global

**Performance Data**
- Maintenance-free slide bearings for doors up to 300 kg/660 lb
- Designed for high-frequency use (not limited to low-frequency applications)

www.simonswerk-usa.com
262.472.9500 | info@simonswerk.com

SNAP 262

EQUIPMENT

## DISHWASHER

**$$ I NEW**

**Maytag® Home Appliances**

Their Quietest Dishwasher Ever has all the cleaning power of the Maytag brand without the ruckus. They built this large-capacity dishwasher with tough stainless steel to take on the worst messes.

**Performance Data**
- 4-blade stainless steel chopper
- Features PowerBlast™ rinse cycle
- Premium ball-bearing rack glides
- Product SKU: MDB8969SDM

www.insideadvantage.com
800.253.1301

SNAP 263

EQUIPMENT

## NEW IDEAS

**Da-Lite**

The new IDEA™ line provides optimal touch performance, and is the best screen on the market for interactivity. New standard features include a magnetic surface and thin frame.

**Product Application**
- Erasable
- Compatible with any dry erase marker

**Performance Data**
- Hotspot free

www.da-lite.com/NewIDEAs
800.622.3737 | info@da-lite.com

SNAP 264

# TRUST IN RESEARCH

Strategic, full-service market research solutions focused on measuring...

- BRAND POSITION — attitudes, awareness, usage, image
- CUSTOMER EXPERIENCES — satisfaction, wants/needs, likelihood to recommend, loyalty/advocacy
- MARKETING EFFECTIVENESS — target audience reach, message impact, ability to cause action
- PRODUCT DEVELOPMENT — concept testing, product needs identification, nomenclature, pricing, marketing

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# PRODUCT SPOTLIGHTS


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| Roofing, Siding, Thermal & Moisture Protection | Pgs. | 91-93 |
| Specialty Products | Pgs. | 93-96 |


ELECTRICAL, LIGHTING

## ELECTRIC VEHICLE CHARGING STATIONS

**WR | GREEN**

**SemaConnect, Inc.**

The ChargePro Electric Vehicle Charging Station comes bundled with free station management software, giving owners a full turn-key solution for deploying a program at your property.

**Product Application**

- Commercial real estate
- Multifamily
- Retail

www.semaconnect.com
301.352.3730

SNAP 265

INTERIOR FINISHES, FURNISHINGS

## HIGH DEFINITION GLAZED PORCELAIN FLOOR & WALL

**NEW | GREEN**

**Florida Tile**

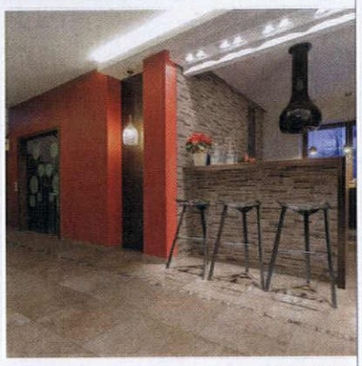
Since 1954, Florida Tile has been an innovator, from building the first floor tile plant in the USA to introducing the first digitally printed products with its HDP – High Definition Porcelain® lines.

**Product Application**

- All residential and commercial wall, countertop and backsplash applications, all residential and most commercial floor applications

**Performance Data**

- EarthstoneHDP by Florida Tile is the newest HDP line featuring four earthy tones



www.floridatile.com
800.352.8453 | sales@floridatile.com

SNAP 266

INTERIOR FINISHES, FURNISHINGS

## WARM TOWEL LUXURY WITH HEATED TOWEL RACK

**Amba Products**

Custom Sirio Dual-purpose Heated Towel Rack / Space Heater brings luxury and comfort to bathrooms, spas, and hotels.

**Product Application**

- Keeps towels warm, dry and mold/mildew free
- 304-Grade Stainless steel
- Polished, Brushed, and Oil-Rubbed Bronze finishes
- Custom-made in Padua, Italy

**Performance Data**

- 21–43" Height
- 21–57" Width
- 392–1262 BTU Output

www.ambaproducts.com
404.350.9738 | fred@ambaproducts.com

SNAP 267

INTERIOR FINISHES, FURNISHINGS

## VANITY BRACKETS

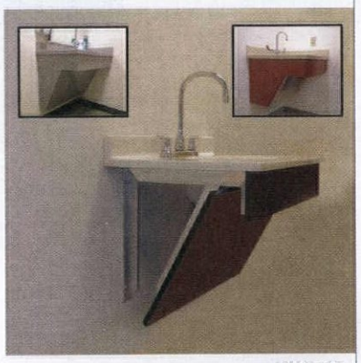
**$ | GREEN**

**Rangine Corporation/Rakks**

Rakks ADA-compliant aluminum vanity brackets simplify and reduce the cost of installing sinks and provide a stable mounting surface for custom-built enclosures.

**Performance Data**

- Supplied with wooden strips on the front faces to provide convenient mounting or removal of surface panels
- Available in standard sizes and made-to-order



www.rakks.com
800.826.6006 | David Greenberg

SNAP 268

INTERIOR FINISHES, FURNISHINGS

## SEAMLESS HIGH-DESIGN FLOOR SYSTEMS

**$$**

**Stonhard**

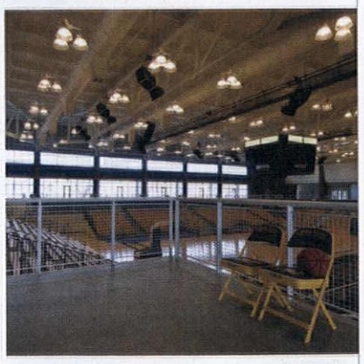
Stontec URF is a seamless, chemical-, stain- and impact-resistant, urethane-based floor system with a decorative flake-infused design. A designer's choice.

**Product Application**

- Stadiums and entertainment venues
- Restaurants, food courts 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 269

INTERIOR FINISHES, FURNISHINGS

## AUTHENTIC TERRAZZO FLOORING

**Install Terrazzio Today ...**
**Walk on Terrazzio Tomorrow.**

TERRAZZIO is manufactured to present a smooth Authentic Terrazzo Floor. Terrazzio is installed by a Professional Ceramic Tile Contractor.

**Product Application**

- Schools
- Hospitals and Airports
- Government Facilities – 100,000sf at Quantico
- Terrazzio Logos

**Product Data**

- 16sf and 32sf Tiles
- 20% Recycled Material

www.terrazzio.com
931.845.3434

SNAP 270

LANDSCAPING, SITEWORK

## CRAFTSMANSHIP IN SHELTER DESIGN AND FABRICATION

**ICON Shelter Systems Inc.**

ICON introduced the Craftsman Series shelters in 2005, and it has become one of the biggest sellers in the pre-engineered shelter market. This latest installment is at Columbus Park in Piscataway, NJ.

**Product Application**

- Columbus Park, Piscataway, NJ
- Askarben Park, Omaha, NE
- Ohr Menachem Park, Vaughan, ON
- Artesia Development, Sunrise, FL
- Prairie Walk Pond, Lisle, IL
- Berry Park, Eureka, MO

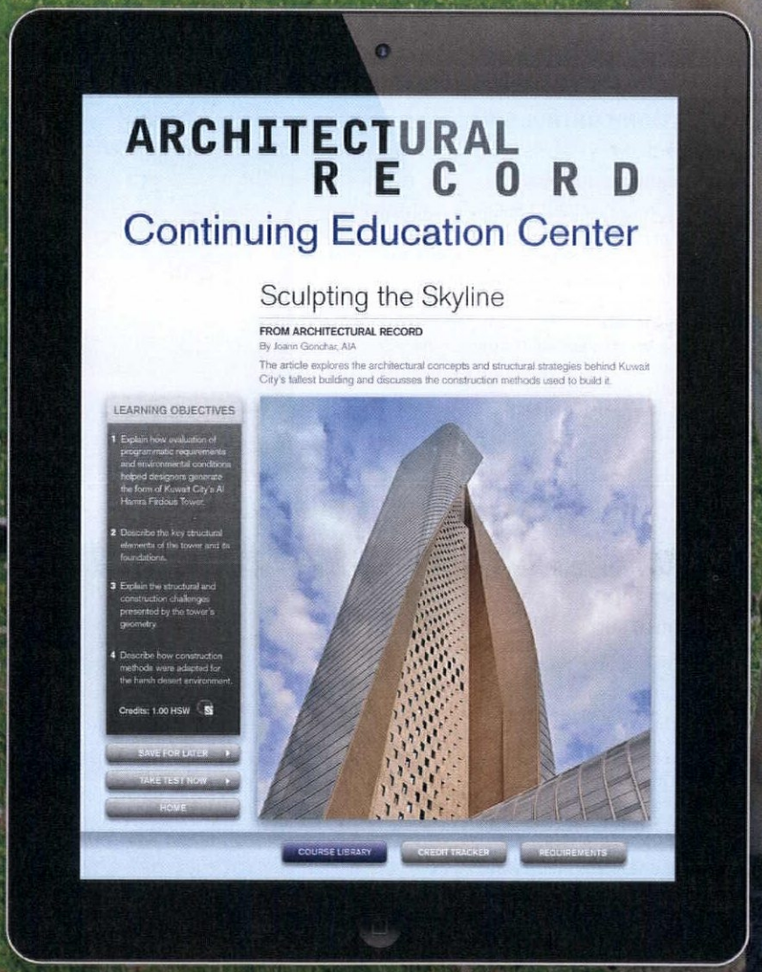
**Performance Data**

www.iconshelters.com
616.396.0919 | richard@iconshelters.com

SNAP 271

# CLASSMATES.

**Introducing the Architectural Record CEU App. The only app that allows you to fulfill credits and track your progress without Internet access.**

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| Equipment | Pgs. | 86 |
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| ROOFING, SIDING, THERMAL & MOISTURE PROTECTION | PGS. | 91-93 |
| Specialty Products | Pgs. | 93-96 |


MATERIALS

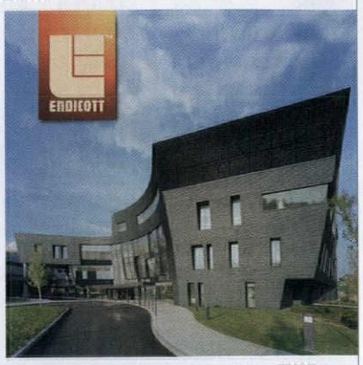
### QUALITY CLAY MASONRY UNITS, UNIQUE COLORS

**Endicott Clay Products Co.**

Face brick, thin brick, tile and pavers. A variety of sizes in a unique palette including exclusive Ironspot colors and endless special shapes.

**Product Application**
- Yale Health Center, New Haven, CT (at right)
- Prudential Center (arena), Newark, NJ
- Target Corporation Headquarters, Minneapolis, MN

**Performance Data**
- Meets or exceeds ASTM standards
- Backed by a large BIM catalog




www.endicott.com
402.729.3315 | Gary Davis

SNAP 272

MATERIALS

### LINWOOD WOOD CEILINGS & WALLS

**Acoustical Surfaces, Inc.**

Linear wood plank system easily attaches to T-Bar grid for ceiling applications or directly to wall framing on wall applications.

**Product Application**
- Schools, Libraries, Restaurants, Residential, Commercial
- Shopping Malls, Hotels, Hospitals, Office Buildings
- Home Theaters, Corporate Offices, Multipurpose Rooms

**Performance Data**
- Class A Fire Rated
- Available in many custom sizes/finishes

www.acousticalsurfaces.com
1.800.710.8792 | Jon Mestad

SNAP 273

MATERIALS

### PERFECT PAVER PALETTE

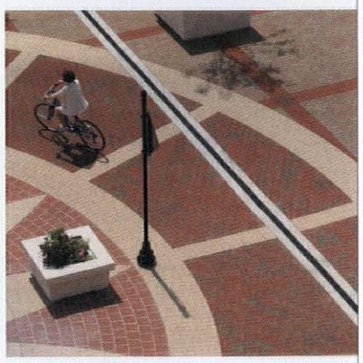
**$$$**

**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 274

MECHANICAL SYSTEMS, HVAC, PLUMBING

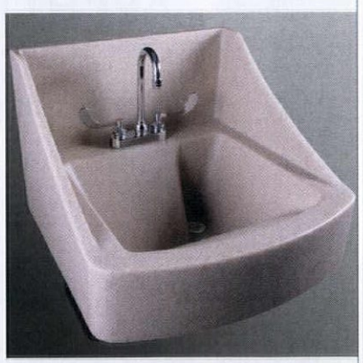
### INFECTION-CONTROL SINK

**NEW**

**Willoughby Industries**

Designed to minimize splattering & reduce the spread of infectious disease, WICS Series infection-control sink keeps water from splashing directly into the drain & aerosolizing contents in trap.

**Performance Data**
- Seamless one-piece solid-surface lavatory deck
- Offset drain position w/ indirect path to drain
- Oversized backsplash
- Wrist blade or infrared faucet
- Stainless steel shroud



www.willoughby-ind.com
800.428.4065 | willoughby@willoughby-ind.com

SNAP 275

MECHANICAL SYSTEMS, HVAC, PLUMBING

### IN-SINK DRAIN SYSTEM

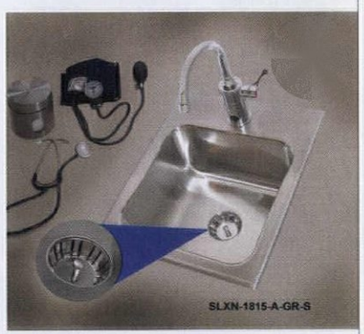
**$$ | GREEN | NEW**

**Just Manufacturing**

Integra Drain—seamlessly welded to sink, creates integral drain in-sink system, without additional parts or rings. Reduces leak potential. Includes basket strainer and tailpiece.

**Product Application**
- Commercial & residential applications
- Ideal for healthcare environments

**Performance Data**
- Integral seamless sanitary drain system
- Heavy-gauge stainless strainer
- Includes JSGN-8-6 self-adapting sensor operated mixing faucet with manual override




www.justmfg.com/Integra-Drain
847.678.5150 | custserv@justmfg.com

SNAP 276

## MECHANICAL SYSTEMS, HVAC, PLUMBING

### DEMAND CONTROL VENTILATION

**CaptiveAire Systems, Inc.**

The Demand Control Kitchen Ventilation System provides industry leading savings and quality without the premium price tag.

**Product Application**

- Modulates fans based on cooking load
- Max airflow override & energy savings displayed
- Preparation Time Function
- Cool Down Function
- Wiring simplified with CAT-5

www.captiveaire.com
800.334.9256 | feedback@captiveaire.com

SNAP 277

## MECHANICAL SYSTEMS, HVAC, PLUMBING

### HIGHEST RESOLUTION TOUCHSCREEN

**NEW**

**Price Critical Controls**

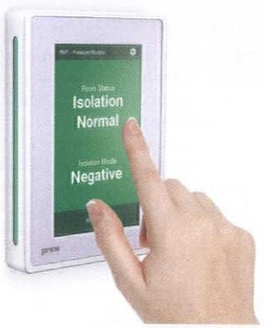
The Touchscreen Pressure Monitor (PMT) provides pressure monitoring of critical spaces using the latest in microcontroller and sensor technologies.

**Product Application**

- Isolation Rooms
- Operating Rooms
- Compounding Pharmacies

**Performance Data**

- Industry first maintenance free pressure sensor
- BTL certified BACnet room pressure monitor




www.pricecriticalcontrols.com

SNAP 278

## ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

### SLATE ROOFING

**$$ I GREEN**

**Greenstone Slate® / Nu-lok™ Lightweight Installation**

Greenstone Slate is genuine Vermont ASTM S1 roofing slate that can be installed using the Nu-lok lightweight installation system. Nu-lok is perfect for roof replacements such as cedar shake.

**Product Application**

- Residential, institutional and commercial buildings
- Integrated solar panel option with Nu-lok system
- Excellent as a building cladding system
- Greenstone Architectural Slate—100-year warranty
- Nu-lok Roofing System—50-year warranty

GreenstoneSlate.com | Nu-lokUSA.com
800.619.4333 | Jon Hill

SNAP 279

## ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

### METAL ROOFING

**GREEN I $$**

**Petersen Aluminum Corporation**

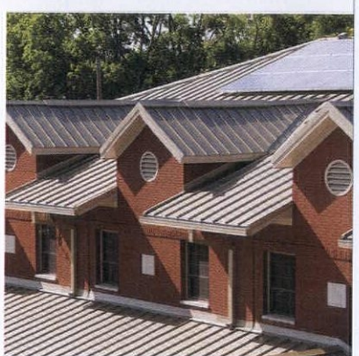
SNAP-CLAD Metal Roofing Panels feature architectural aesthetics and structural performance. They are corrective leveled for superior flatness.

**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



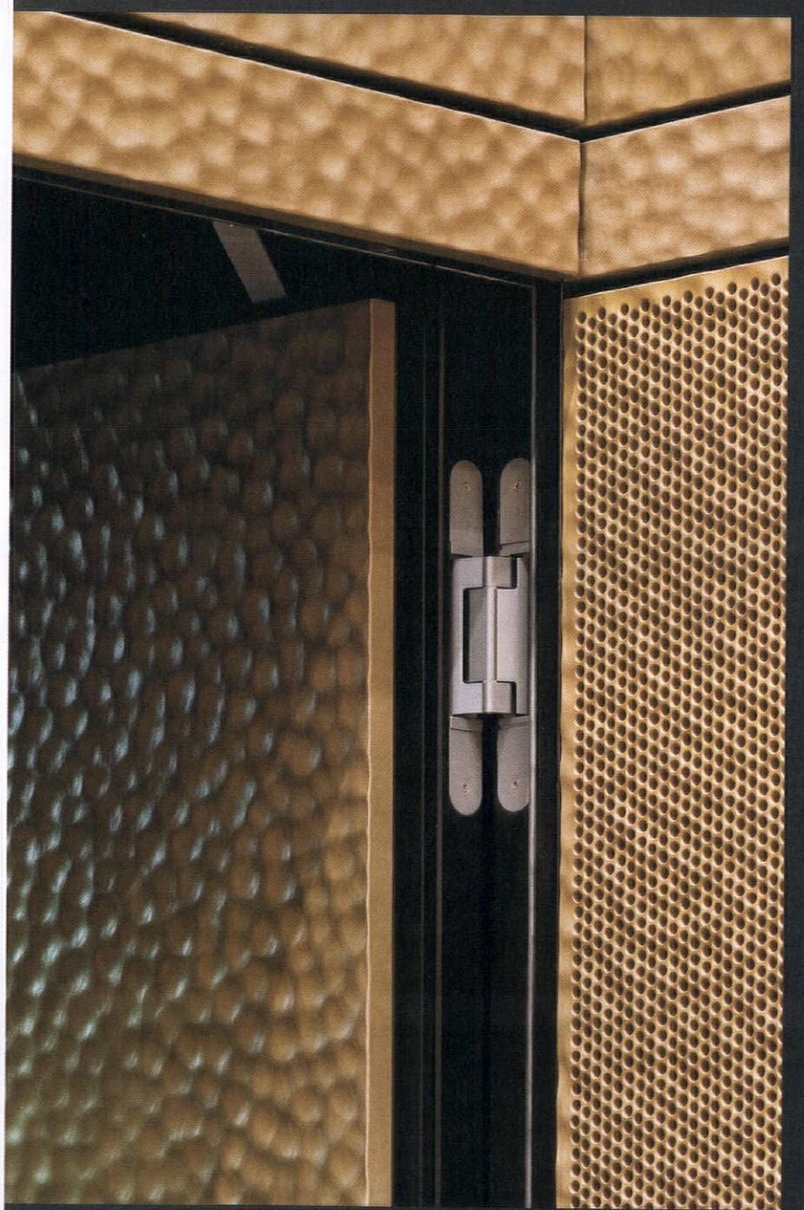
www.PAC-CLAD.com
800.722.2523

SNAP 280

SIMONSWERK

**TECTUS®**
the adjustable concealed door hinge.

The hinge that opens doors and possibilities.



**SIMONSWERK**
**North America, Inc.**
1171 Universal Boulevard
Whitewater, WI 53190
262-472-9500
**www.simonswerk-usa.com**

## PRODUCT SPOTLIGHTS

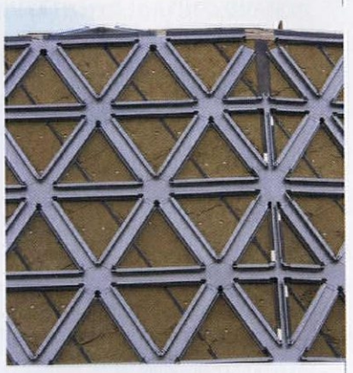

| | | |
|---|---|---|
| Doors, Windows | Pgs. | 82-86 |
| Equipment | Pgs. | 86 |
| Electrical, Lighting | Pgs. | 88 |
| Interior Finishes, Furnishings | Pgs. | 88 |
| Landscaping, Sitework | Pgs. | 88 |
| Materials | Pgs. | 90 |
| Mechanical Systems, HVAC, Plumbing | Pgs. | 90-91 |
| **ROOFING, SIDING, THERMAL & MOISTURE PROTECTION** | **PGS.** | **91-93** |
| **SPECIALTY PRODUCTS** | **PGS.** | **93-96** |


**ROOFING, SIDING, THERMAL & MOISTURE PROTECTION**

### CONTINUOUS INSULATION

**$$**

**Owens Corning**



Thermafiber® RainBarrier® mineral wool continuous insulation

**Product Application**

- Exceptional performance in rain screen and cavity wall construction
- Energy-saving* insulation, fire containment and acoustical control
- Efficiently drains water from a wall cavity system

**Product Data**

- Non-combustible, fire resistant, permeable, UV resistant, easy to install
- Minimum 70% recycled content

OCBuildingSpec.com | 1-800-GET-PINK® *Savings vary

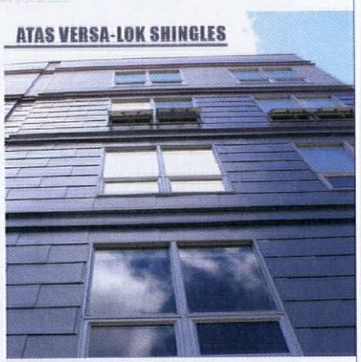
SNAP 281

**ROOFING, SIDING, THERMAL & MOISTURE PROTECTION**

### FOR ULTIMATE VERSATILITY: VERSA-LOK SHINGLES

**ATAS International, Inc.**

ATAS VERSA-LOK SHINGLES



Versa-Lok, a flat shingle style wall panel, creates classic rectangular shapes with its versatile mix-and-match sizes. Check out our full page ad in this issue.

**Product Application**

- Installs right-to-left starting at bottom
- Concealed clips and fastener
- Choice of 31 standard colors
- Complete line of trims available in matching colors, gauge and finish

www.atas.com
800.468.1441

SNAP 282

**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 283

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

## CLAD WITH UNLIMITED POSSIBILITIES

**WR**

### Dri-Design

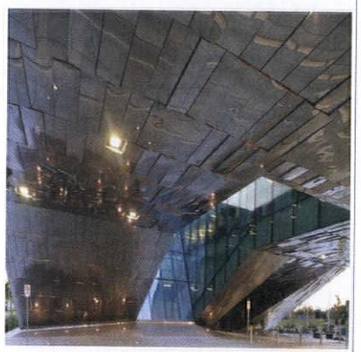
Dri-Design is an advanced and sophisticated metal wall panel system....made simple.

**Product Application**

- Centennial College - Toronto Canada
- Tapered Series panels using Stainless Steel
- Fast, easy application

**Performance Data**

- Tapered Series maintains Dri-Design's true dry joint rain-screen technology, sustainability and ease of installation.
- Exceeds performance specs of AAMA 508-07



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

SNAP 284

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

## ARCHITECTURAL PRECAST CONCRETE CLADDING PANELS

**GREEN | WR**

### Easi-Set Worldwide

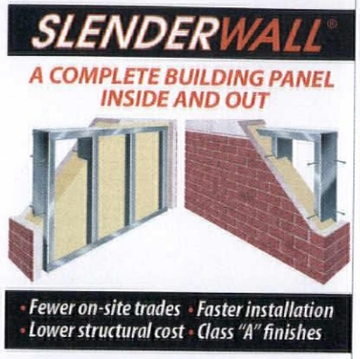
Ultra Hi-Performance Slenderwall is a 28 lb/sf award-winning architectural precast concrete and steel-stud exterior panel system wind-load tested to 226 mph.

**Product Application**

- BioInnovation Center, New Orleans, LA
- Johns Hopkins Hospital, Baltimore, MD
- Westin Luxury Hotel, Virginia Beach, VA
- US Army Legal Headquarters, Ft Belvoir, VA

**Performance Data**

- Factory-installed continuous closed-cell foam insulation – ASTM C-1363 hot box tested and compliant with all IECC/ASHRAE energy conservation codes




www.SlenderWall.com
800.547.4045 | info@easiset.com

SNAP 285

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

## 12' SPAN ROOF DECK WITH TECTUM V -- NEW IN 2015

**WR | GREEN | NEW**

### Tectum Inc.

A composite roof deck with an NRC of up to .60, the environmental credentials and abuse resistance you expect from all Tectum products, a 12' span and an R-value of 33. It's Tectum V.

**Performance Data**

- Spans of up to 12 feet
- NRC of up to .60
- R-value of 33

Tectum.com
888.977.9691 | info@Tectum.com

SNAP 286

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

## LATH & DRAINAGE IN ONE SYSTEM

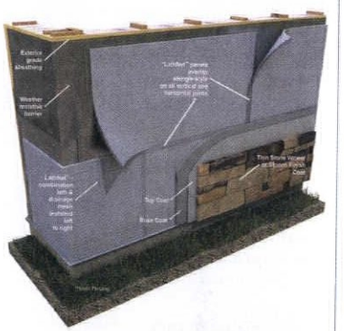
**$ | NEW**

### Mortar Net Solutions

LathNet is the first factory-assembled drainage plane and metal lath system for adhered masonry veneer walls in residential and commercial buildings.

**Performance Data**

- Continuous drainage plane allows fast, complete drainage and drying.
- Installs like regular lath.
- Prevents mortar bridging.



www.mortarnet.com
800.664.6638 | Art Fox

SNAP 287

SPECIALTY PRODUCTS

## COUNTER SUPPORT BRACKET

**GREEN | NEW**

### Rangine Corporation/Rakks

Rakks Eclipse Brackets can support counters or shelves up to 18 in. deep. This attractive low-profile design is easy to install with no visible hardware.

**Product Application**

- Commercial
- Residential

**Performance Data**

- Eclipse Brackets can support loads up to 300 lb per pair sold in clear and black anodized finishes
- Machined aluminum ends provide a smooth and near seamless termination

www.rakks.com
800.826.6006 | David Greenberg

SNAP 288

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
- Multi-use protective cover

**Performance Data**

- 9-gauge coated steel wire construction
- Two sizes available: 12 x 12 x 12 in. or 7 x 7 x 7 in.

www.sti-usa.com/sw21
800.888.4784 | Jenny Weil, Inside Sales Mgr.

SNAP 289

SPECIALTY PRODUCTS

## VERTICAL FINS

**$$ | GREEN**

### Architectural Grilles & Sunshades, Inc.

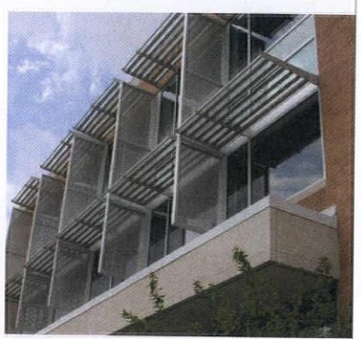
AGS, Inc. provides many different designs of vertical aluminum fins that include single airfoils, perforated aluminum and solid panel sunshades.

**Product Application**

- Lincoln Lancaster County HD, Lincoln, NE
- Northeastern Illinois University, Chicago, IL
- UCCS Lane Center, Colorado Springs, CO

**Performance Data**

- Maximize reduced exposure from sun on east & west side of the building
- Contributes towards LEED points



www.agsshade.com
708.479.9458 | Zach Grunert

Booth: 2815 Greenbuild

SNAP 290

SPECIALTY PRODUCTS

## OVER-TRAVEL SLIDE

**NEW | $$**

### Accuride International

The NEW 3634EC with Easy-Close is perfect for wider drawers up to 42" that require heavy-duty capacity.

**Product Application**

- 1" of Over-Travel
- 150 lbs. load rating
- Smooth Easy-Close action

**Product Data**

- Gives wider drawers heavy-duty capacity with both over-travel reach and smooth closing.
- Pairs well with Accuride's 3832EC for Easy-Close Action for narrow or wider drawers.

www.accuride.com
ctuttle@accuride.com | Claudia Tuttle

SNAP 291

# PRODUCT SPOTLIGHTS


| | | |
|---|---|---|
| Doors, Windows | Pgs. | 82-86 |
| Equipment | Pgs. | 86 |
| Electrical, Lighting | Pgs. | 88 |
| Interior Finishes, Furnishings | Pgs. | 88 |
| Landscaping, Sitework | Pgs. | 88 |
| Materials | Pgs. | 90 |
| Mechanical Systems, HVAC, Plumbing | Pgs. | 90-91 |
| Roofing, Siding, Thermal & Moisture Protection | Pgs. | 91-93 |
| SPECIALTY PRODUCTS | PGS. | 93-96 |


SPECIALTY PRODUCTS

## STAINLESS STEEL CABLE RAILING

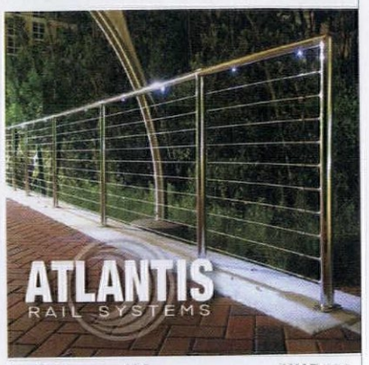
**WR | GREEN**

**Atlantis Rail Systems**

Stainless steel cable railing systems for unobstructed indoor or outdoor, commercial or residential designs and pre-engineered for quick and easy installations.

**Product Application**
- Indoor or outdoor
- Commercial or residential
- New construction or retrofit

**Performance Data**
- Low maintenance, grade 316L stainless steel
- Variety of modular components for every design
- Multiple cable railing styles and hardware options




www.atlantisrail.com
800.541.6829 | info@atlantisrail.com

Booth: S2015 IBS SNAP 292

SPECIALTY PRODUCTS

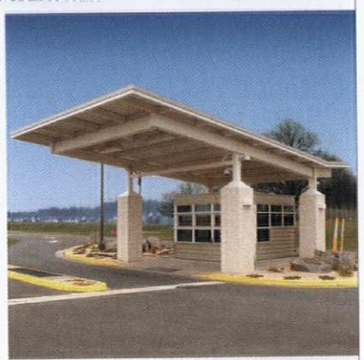
## CONTEMPORARY GUARD BOOTH FOR HARSH WEATHER

**B.I.G. Enterprises, Inc.**

Features all galvanized steel construction w/ Centria exterior metal panels, B.I.G.'s exclusive paint finish w/ 3,500 hour-tested salt spray for punishing climates, awning-style windows w/ dual-panes.

**Product Application**
- NASA Goddard Space Flight Center
- Top-secret installations
- Corporate entrances

**Performance Data**
- Bullet and blast resistant
- CBRN protection available



www.bigbooth.com
626.448.1449 | Dave King

SNAP 293

SPECIALTY PRODUCTS

## BIRD-PROOF YOUR BUILDING

**$ | GREEN**

**Bird Barrier America, Inc.**

The Eagle Eye system incorporates an optical scare device that rotates and reflects sunlight as well as Flash Flags, that flutter in the breeze and reflect light. The reflected light disorients birds.

**Product Application**
- New Flash Flags are wind-powered
- 12v and wind-powered Eagle Eye models
- 12v models can be powered by solar panel

**Performance Data**
- Reflected light spectrum disorients birds and causes them to deviate in flight and go to another location

www.birdbarrier.com
800.503.5444 | customercare@birdbarrier.com

SNAP 294

SPECIALTY PRODUCTS

## INDOOR AIR QUALITY GYPSUM BOARD LINE EXPANDED

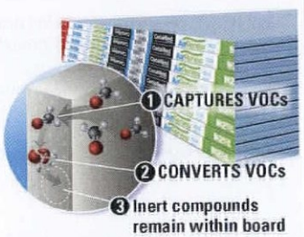
**WR | GREEN | NEW**

**CertainTeed Gypsum**

AirRenew® Extreme Abuse and Extreme Impact remove volatile organic compounds (VOCs) circulating indoors, contributing to a healthy indoor air quality.

**Product Application**
- Ames Montessori School, Marrero, LA
- Bryant Elementary, Bryant, AR
- UNCG Quad renovations, Greensboro, NC

**Performance Data**
- Superior resistance to hard impacts, penetrations; high performance against surface abrasion, indentation; exceptional durability, increased sustainability




www.certainteed.com
800.233.8990 | Amy Lee

Booth: 4037 AIA Expo SNAP 295

SPECIALTY PRODUCTS

## CELEBRATING 50 YEARS OF SAUNAS

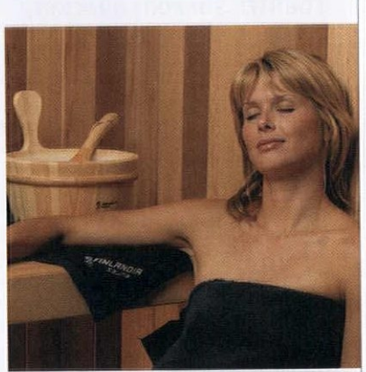
**WR**

**Finlandia Sauna Products, Inc.**

They manufacture authentic saunas, no infrareds. They offer precut packages, modular rooms and heaters.

**Product Application**
- Any available space
- Residential or commercial
- New construction or remodeling

**Performance Data**
- Uses 1-in. x 4-in. paneling
- Markets four all-clear western softwoods



www.finlandiasauna.com
800.354.3342 | Tim Atkinson or Reino Tarkiainen

SNAP 296

SPECIALTY PRODUCTS

## ACCESS FLOORING SYSTEM

**Haworth**

Haworth Raised Access Floors are the foundation for spaces that adapt to workplace needs. TecCrete Raised Access Floors are a durable, dependable and architectural solution for a variety of spaces.

**Product Application**
- Offices – new construction & renovation
- Education & libraries
- Data centers
- Casinos

**Performance Data**
- Longest warranty in the industry
- Concentrated loads from 1,250 - 2,500 lb

www.haworth.com/home/floors
616.393.3000 | laura.stadler@haworth.com

SNAP 297

SPECIALTY PRODUCTS

## DELUXE STAINLESS STEEL SERIES

**WR | NEW**

**Ketcham Medicine Cabinets div. of Fred Silver & Co.**

Stainless steel medicine cabinets.

**Product Application**
- Nursing homes, hospitals
- Assisted living, multi-residential
- Dormitories

**Performance Data**
- Heavy-duty satin stainless steel construction
- Available recessed and surface mounted

mirrorsandcabinets.com | ketchamcabinets.com
631.615.6151 | sales@ketchamcabinets.com

SNAP 298

SPECIALTY PRODUCTS

## PREMIUM ALUMINUM CABINETS

**$$ | GREEN**

### Moduline Cabinets

Moduline Cabinets are premium aluminum cabinets.

**Product Application**
- Residential
- Commercial
- Industrial

**Performance Data**
- Innovative high-quality aluminum shop tool storage cabinets, wall-mounted cabinets and countertop material
- Organize with style

www.modulinecabinets.com
888.343.4463 | Tim Cass

SNAP 299

SPECIALTY PRODUCTS

## VENT GRILLES

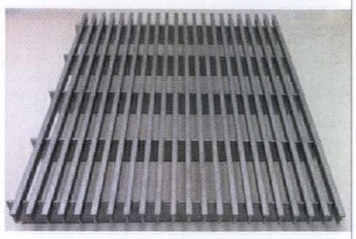
**$$**

### OGi Architectural Metal Solutions – an Ohio Gratings Company

The Vent Grille (VG Series) 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
- Trenches & fountains

**Performance Data**
- Manufactured from stainless steel (304 or 316 alloy)
- Clear openings can be as narrow as 1/4 inch
- Finish is a #4 Mechanical



www.ohiogratings.com
800.321.9800 | Jason Richter

SNAP 300

SPECIALTY PRODUCTS

## CUSTOM-MADE ROLLING LADDERS

### Putnam Rolling Ladder Co., Inc.

Since 1905 Putnam Rolling Ladder Co. has been manufacturing custom-made rolling ladders.

**Product Application**
- Library rolling ladder
- Loft ladder
- Decorative office ladders and stools

**Performance Data**
- Numerous hardwood species, stains and hardware metal finishes

www.putnamrollingladder.com
212.226.5147 | Sales

SNAP 301

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 302

SPECIALTY PRODUCTS

## STADIUM SEATING

**WR | NEW**

### Sturdisteel

Cardinal 3000 stadium chairs are an economical choice for all sporting venues requiring reserved or individual seating sections.

**Product Application**
- Football, soccer or lacrosse stadiums
- Baseball or softball stadiums
- Gymnasiums, natatoriums or arenas

**Performance Data**
- Self-rising, gravity-tip and maintenance-free
- 13 standard colors – custom colors available
- 5 sizes and 3 frame finishes

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

SNAP 303

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 304

Clear Seas
RESEARCH
*Making the complex clear*

**MAKING THE COMPLEX CLEAR**

Clear Seas Research is an industry-focused market research company dedicated to providing clear insights to complex business questions. Capturing feedback via quantitative surveys (online, phone, mail or in-person) OR qualitative experiences (one-on-ones, focus groups or bulletin boards), we present results that are easily understood, insightful and actionable.

**www.clearseasresearch.com**

SPECIALTY PRODUCTS

## ICC-ES CERTIFIED FOUNDATION FLOOD VENTS

**NEW | WR | GREEN**

### Smart Vent® Products, Inc.
### Flood Risk Evaluator (FRE)™

Visit the Architect section of our website to download AutoDesk® Revit® BIM files and CAD files on the SWEETS™ Network.

**Product Application**
- A complimentary project evaluation from FRE by request is also available by sending in your project details to plans@smartvent.com.

**Performance Data**
- Dual Function & Insulated Models
- Models for residential and commercial applications
- Made in the USA from Marine Grade 316 Stainless Steel

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

Booth: S1453 IBS

SNAP 305

## PRODUCT SPOTLIGHTS


| | | |
|---|---|---|
| Doors, Windows | Pgs. | 82-86 |
| Equipment | Pgs. | 86 |
| Electrical, Lighting | Pgs. | 88 |
| Interior Finishes, Furnishings | Pgs. | 88 |
| Landscaping, Sitework | Pgs. | 88 |
| Materials | Pgs. | 90 |
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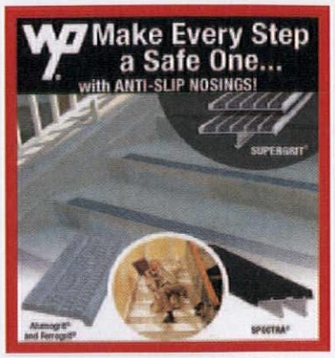


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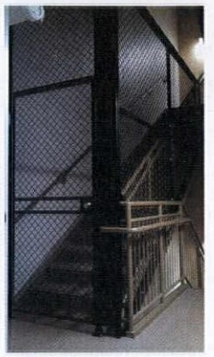

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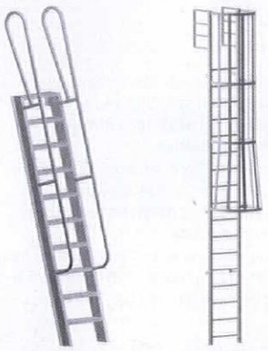

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## NEW AND UPCOMING EXHIBITIONS

### Case Work: Studies in Form, Space & Construction by Brad Cloepfil/Allied Works Architecture

denver

*January 24–April 17, 2016*

The first comprehensive exhibition to explore artworks created during Allied Works' investigative process, *Case Work* will show at the Denver Art Museum. On display will be the artistic explorations of material, form, and spatial experience that have guided the firm's architectural designs over the last 15 years: both realized buildings and projects yet to take shape. For more information, visit *denverartmuseum.org.*

### Peter Fischli David Weiss: How to Work Better

NEW YORK CITY

*February 5–April 20, 2016*

For 30-plus years, artists Peter Fischli (1952– ) and David Weiss (1946–2012) collaborated on a unique oeuvre that brilliantly exploited humor, banality, and a rethinking of the readymade to realign our worldview. The Guggenheim exhibit will investigate the pair's joint production, revealing how they juxtaposed the spectacular and the ordinary to celebrate the triviality of daily life, all while creating an open-ended interrogation of temporality, visual culture, and nature's very existence. For more information, visit *guggenheim.org.*

### Beauty

NEW YORK CITY

*February 12–August 21, 2016*

The fifth of the Cooper Hewitt's contemporary-design exhibition series, *Beauty* will celebrate the art as a creative endeavor engaging mind, body, and senses. Focusing on aesthetic innovation and displaying over 250 works by 62 global designers, the show is organized around the themes extravagant, intricate, ethereal, transgressive, emergent, elemental, and transformative. For more information, visit *cooperhewitt.org.*

## ONGOING EXHIBITIONS

### David Adjaye: Architecture for Social Change

CHICAGO

*Through January 3, 2016*

The major figure in architecture and design has his first-ever retrospective, at the Art Institute of Chicago. It features Adjaye's drawings, sketches, models, and building mock-ups of furniture, housing, and public buildings. A dynamic installation created by the African-born artist's studio immerses viewers in his distinct approach and visual language. For more information, visit *artic.edu.*

### Provocations: The Architecture and Design of Heatherwick Studio

NEW YORK CITY

*Through January 3, 2016*

On view at the Cooper Hewitt, Smithsonian Design Museum, this is the first American museum exhibition focused on the work of British designer Thomas Heatherwick and his London-based studio. His unique design concepts include products, infrastructure, temporary structures, and large-scale architecture projects worldwide. Some highlights: the Learning Hub at Singapore's Nanyang Technological University and the redesign of London's Routemaster double-decker bus. For more information, visit *cooperhewitt.org.*

### The Inaugural Chicago Architecture Biennial

CHICAGO

*Through January 3, 2016*

The first such biennial features a constellation of exhibitions, full-scale installations, and a program of events at five city locations. The public is invited to consider architecture in new and unexpected ways, as well as to take part in a global discussion about the future of the built environment at home and abroad. Intended to provide a platform for groundbreaking architectural projects and spatial experiments, the event also explores how creativity and innovation can radically transform our lived experience. For more information, visit *chicagoarchitecturebiennial.org.*

### Palladian Design: The Good, the Bad, and the Unexpected

LONDON

*Through January 9, 2016*

Andrea Palladio's name came to represent a style still in use around the world... even now, more than 500 years since his death. This exhibition—at the Architecture Gallery—explores how British architects have interpreted, copied, and reimagined his design principles in unexpected ways. For more information, visit *architecture.com.*

### Une histoire

PARIS

*Through January 11, 2016*

This new presentation of the Centre Pompidou's contemporary collection includes more than 400 works dating from the 1980s to today. Featuring paintings, sculptures, installations, videos, films, drawings, photographs, and architectural models, the exhibit showcases the work of nearly 230 practitioners from 55 countries. For more information, visit *centrepompidou.fr.*

### Making Music Modern: Design for Ear and Eye

NEW YORK CITY

*Through January 17, 2016*

Music and design—art forms that share aesthetics of rhythm, tonality, harmony, interaction, and improvisation—have long had a close affinity, perhaps never more so than during the 20th century. Drawn entirely from the Museum of Modern Art's collection, *Making Music Modern* gathers designs for auditoriums, instruments, and music-listening equipment along with posters, record sleeves, sheet music, and animation. For more information, visit *moma.org.*

### Turner Prize 2015

GLASGOW

*Through January 17, 2016*

The annual Turner Prize, given to a British artist under 50 for an outstanding exhibition or work presentation in the preceding year, leaves Tate Britain—and London—in alternate years. You can view the work of the 2015 winner at Tramway in Glasgow, an acclaimed international art space for commissioning, producing, and presenting contemporary arts projects. For more information, visit *tate.org.uk.*

### Chinese Style: Rediscovering the Architecture of Poy Gum Lee, 1923–68

NEW YORK CITY

*Through January 31, 2016*

In this Museum of Chinese in America survey, architectural historian Kerri Culhane explores the nearly 50-year career of architect Poy Gum Lee (1900–68) in China and New York. The first-ever comprehensive list of Lee's projects in New York is presented, including the civic architecture he created in Chinatown, which blends Chinese stylistic details with modern technologies and materials. For more information, visit *mocanyc.org.*

### St. Louis Modern

ST. LOUIS

*Through January 31, 2016*

This exhibition revolves around the dynamic period of 1935 to 1965, when St. Louis–based architects, artists, and designers made notable contributions to Midcentury modern design. Marking the 50th anniversary of Eero Saarinen's iconic Gateway Arch, it displays more than 150 modern design objects and artworks drawn from the St. Louis Art Museum's own collection, as well as from more than 30 museums and private lenders. Many are being shown for the first time. For more information, visit *slam.org.*

### David Adjaye Selects: Works from the Permanent Collection

NEW YORK CITY

*Through February 14, 2016*

For the 12th installment of Cooper Hewitt's ongoing *Selects* series, David Adjaye chose 14 of the museum's West and Central African textiles, then created a dialogue between them and the patterns that inspire his work. For more information, visit *cooperhewitt.org.*

### Hippie Modernism: The Struggle for Utopia

MINNEAPOLIS

*Through February 28, 2016*

This Walker Art Center exhibition examines the intersections of art, architecture, and design with 1960s and early '70s counterculture. A broad range of art forms and artifacts—experimental furniture, alternative living structures, immersive media environments, alternative publishing and ephemera, and experimental film—are presented. For more information, visit *walkerart.org.*

### Wendell Castle Remastered

NEW YORK CITY

*Through February 28, 2016*

This solo exhibition at the Museum of Arts and Design examines the digitally crafted works by an acclaimed figure of the American art furniture movement. In *Wendell Castle Remastered*, the subject himself casts a critical eye on his first decade of artistic production by creating a new body of work that revisits his groundbreaking 1960s achievements through a contemporary lens. For more information, visit *madmuseum.org.*

### Pushing the Press: The Typecraft Design Library

LOS ANGELES

*Through February 29, 2016*

For over a century, Typecraft has worked with artists and designers; the result is an array of materials attesting to the beauty and power of print design. This A+D Architecture and Design Museum exhibition represents 15-plus years of work collected from Typecraft's collaboration. Visitors can explore a variety of print processes, including split fountain, special die-cuts, distinctive bindings, unique papers, embossing, and multiple inks. For more information, visit *aplusd.org.*

### Endless House: Intersections of Art and Architecture

NEW YORK CITY

*Through March 6, 2016*

This exhibition considers the single-family home and archetypes of dwelling as themes for the creative endeavors of architects and artists. Through drawings, photographs, video, installations, and architectural models drawn from MoMA's collection, *Endless House* highlights how artists have plumbed the house as a means to explore universal topics and how architects have tackled residential design to expand their discipline. For more information, visit *moma.org.*

### Frank Gehry

LOS ANGELES

*Through March 20, 2016*

Frank Gehry's buildings have altered the social and aesthetic relationship of architecture to the city, and his pioneering work in digital technologies set in motion construction-industry practices used now. At the Los Angeles County Museum of Art, the overview covers the period from the 1960s, when the talent founded his L.A. firm, to the present. The 65 models shed light on the evolution of Gehry's thinking, and many drawings are being shown publicly for the first time. For more information, visit *lacma.org.*

## CONFERENCE

### SAH 2016 Annual International Conference

LOS ANGELES

*April 6–10, 2016*

The Society of Architectural Historians' annual conference engages participants from around the world with the Pasadena–Los Angeles region's evolving built environment. This year's topics will include the Metro Expo light-rail line, scheduled for completion in early 2016, which will connect Pasadena to downtown Los Angeles and the rest of L.A. County. This infrastructure, building on historic rights-of-way, will provide new ways to see the panoply of the region's architecture and urbanism. For more information, visit *sah.org.*

## COMPETITIONS

### A Museum in the Making: Beirut, Lebanon

*Submission deadline: January 4, 2016*

The Association for the Promotion and Exhibition of the Arts in Lebanon is launching a design competition for a new modern art museum in Beirut. Set to open in 2020, the space will serve as a multidisciplinary hub of art and design that showcases contemporary Lebanese culture. For more information, visit *amuseuminthemaking.com.*

### Taking Buildings Down

*Registration deadline: January 12, 2016*

Destruction is often seen as—or produced by—a violent act. Thus, at times, the removal process can seem an afterthought. *Taking Buildings Down* seeks proposals for the production of voids; the demolition of buildings, structures, and infrastructures; the subtraction of objects and/or matter as a creative act. Removal is all that is allowed. For more information, visit *storefrontnews.org.*

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# Tiles for Miles

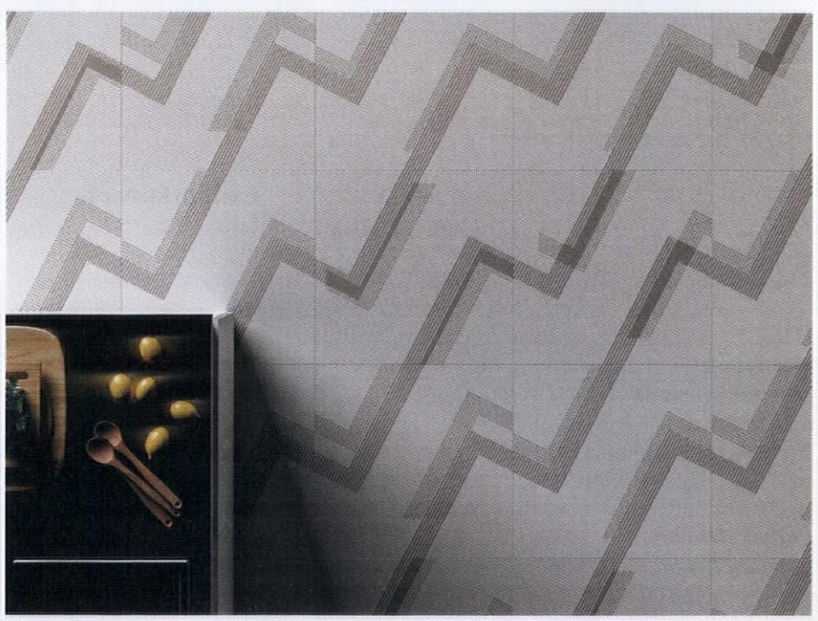
*A strong showing at Cersaie 2015 indicates the Italian tile industry is plenty healthy—and growing.*

**HELD EACH SEPTEMBER** in Bologna, Cersaie remains a leading venue for scouting trends in tile and bathroom furnishings. This year's edition hosted 872 exhibitors and over 101,000 visitors—48,235 of them from abroad, evidence of the trade show's global appeal. Another attraction was Pritzker Prize–winning architect Glenn Murcutt, whose keynote lecture discussed the myriad factors to consider—scale, context, and site history—when building in extreme temperatures and diverse environments.

Several design directions emerged from the five-day show, including faux-cement patterns, patinated metal looks, and ceramic pavers for outdoor use. Tech advances also continued to render tile in ever-more-convincing stone, wood, and fabric textures.

Patterns reminiscent of pencil line drawings popped up in several booths at the fair. Examples included **Ceramiche Refin**'s Labyrinth pattern, Scholten & Baijings' screen-printed Colour tiles (**Ceramica Bardelli**), and Studio Norguet Design's Naive collection for **Lea Ceramiche**, which is produced in ultra-thin laminated porcelain. Mining a similar vein, **Ornamenta** showed Paper, a porcelain tile that resembles a sheet of graph paper. The collection, suitable for walls and floors, doubles as a chalkboard.

Three-dimensional patterns, bricks, and geometrics were also frequent sights.



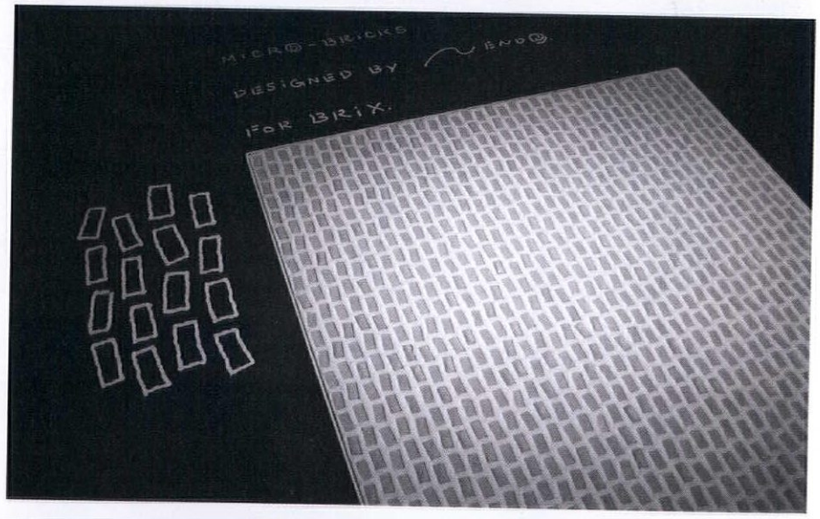
**DOTS AND DASHES** Bisazza's handmade Cementiles collection (top) comprises cement blended with colored oxides; Labyrinth by Ceramiche Refin (above) features a pattern that looks drawn in pencil.

PHOTOGRAPHY: COURTESY BISAZZA, CERAMICHE REFIN

Offered in organic reliefs, **Atlas Concorde**'s 3-D Wall Designs have a silky facade easily mistaken for solid surfacing. The Nendo-designed Micro-Brik (**Brix**) offers miniature rectangular porcelain stoneware in seven patterns. **EmilCeramica**'s Brick Design enlarges the trend, offering six standard hues—as well as custom versions in any Pantone color.

Elsewhere at the fair, inspiration was singular. Architect and designer India Mahdavi created square and hexagonal tiles with eye-popping geometric patterns for **Bisazza**'s Cementiles collection; they're handmade using high-strength cement blended with colored oxides. Bisazza also presented Studio Job's striking Perished glass mosaic, with its pattern of animal skeletons. Another unusual inspiration came from Spain's **Vives**, whose quirky Strand porcelain tile is based on oriented strand board, the most mundane of materials.

As for bathroom fittings, show stand-outs included **Gattoni Rubinetteria**'s Circle and Color Cube bathroom faucets.



**EVERY WHICH WAY** Geometrics and 3-D reliefs were popular motifs at this year's Cersaie trade show, in Bologna. Examples included (clockwise from top) Atlas Concorde's 3-D Wall Designs, Brix's Micro-Brik, EmilCeramica's Brick Design, and Vives' Strand.

**PHOTOGRAPHY:** COURTESY ATLAS CONCORDE, BRIX, EMILCERAMICA, VIVES

**ALL SPIFFED UP**
Gattoni Rubinetteria's Circle and Color Cube faucets (top) add whimsy to the bathroom, while Ceramica Globo's Docciacemento shower tray (right) offers a handsome textured surface that's slip-resistant.

Designed by architect Marco Pisati, they feature brightly colored levers and specially designed cartridges that significantly reduce water consumption. **Ceramica Globo** also introduced its Docciacemento line of minimalist shower trays made with its proprietary Mineralmarble—a marble powder-and-resin blend that creates a unique cement-like finish.

Looking to the future, Andrea Contri—environmental manager of the Department of Environmental Research, a division of ceramic tile association Confindustria Ceramica—announced the formation of an Environmental Product Declaration for industry manufacturers. When fully launched, it will be one of the biggest EPDs in the world in terms of company involvement. "The average EPD will cover Italian porcelain tiles at the national level," says Contri, noting the declaration will list all material content as part of Module A1 of the Product Category Rules, currently in development as a European standard. The association aims to achieve this goal by August 2016...just in time for next year's Cersaie. —*Rita Catinella Orrell*

PHOTOGRAPHY: COURTESY GATTONI RUBINETTERIA, CERAMICA GLOBO

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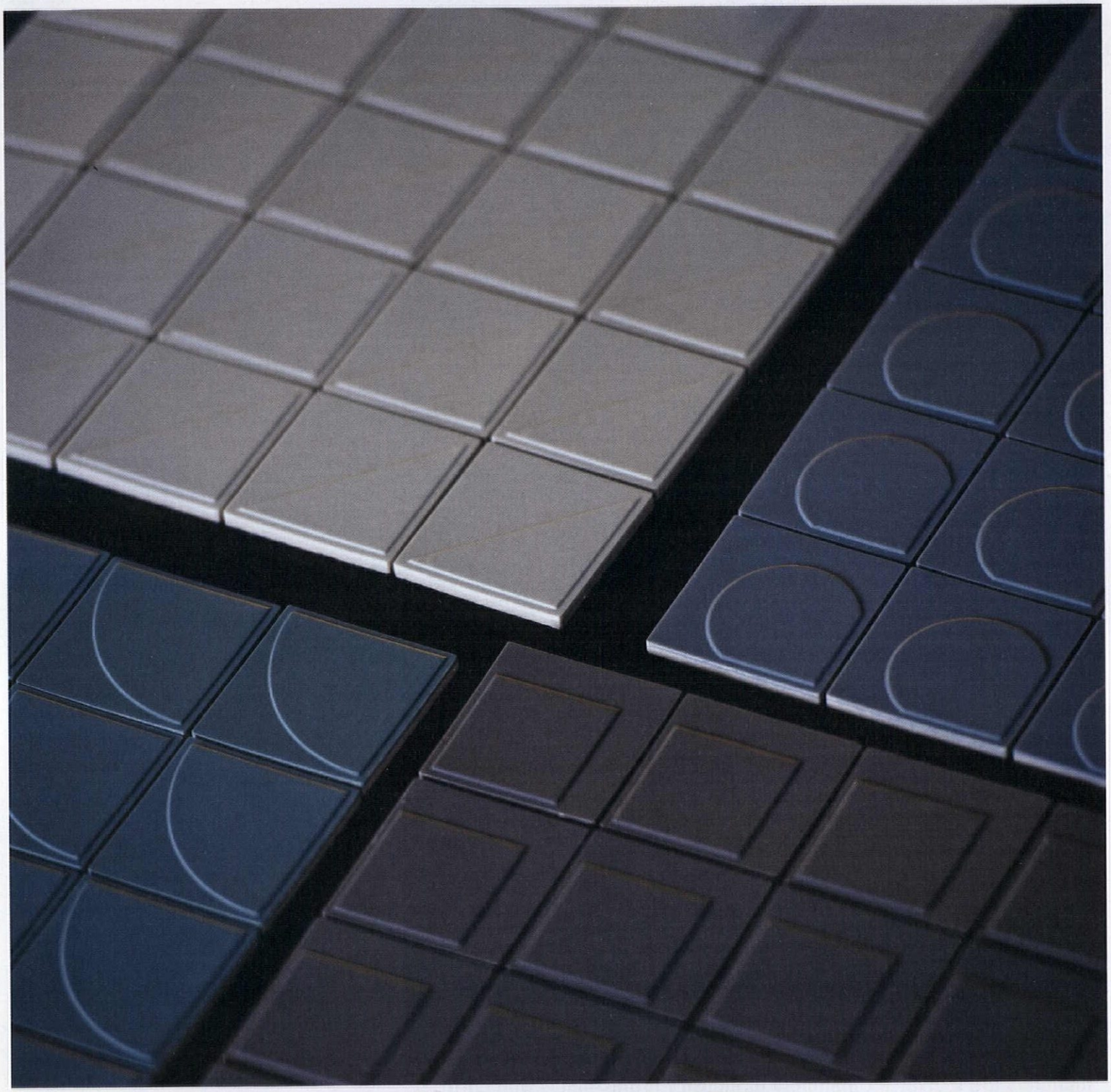

**KONSTANTIN GRCIC**

*The Munich-based industrial designer creates furniture and lighting for Magis, Vitra, Flos, and others. Twice he has won the Compasso d'Oro design prize. konstantin-grcic.com*

**MASSIMO ORSINI**

*As Mutina's CEO, Orsini has steered the company into high-design territory, shepherding collections with Patricia Urquiola, Inga Sempé, and Ronan and Erwan Bouroullec. mutina.it*

**WHEN MUTINA** invited Konstantin Grcic to create a tile collection, there was one hiccup: the famed product designer had never worked with ceramic. But rather than viewing that inexperience with trepidation, the Italian company embraced it. "Together we explored the world of geometric spaces," says Mutina CEO Massimo Orsini of the collaboration, which bore both a mosaic and large-format line of tile. "We had the pleasure of working with a very thorough, rigorous mind."

Offered in six muted hues and two sizes (12- and 24-inch squares), Numi takes cues from contemporary art. Each tile features one of six shapes—circles, diamonds, and peaks among them—partially glazed onto its surface. Numini, its sister collection of 2-inch-square mosaics (pictured above), offers the same motifs but with the design embossed on the tile's porcelain face.

For his part, Grcic welcomed the challenge of working with clay, even producing a book documenting his research into color, shape, and material. "With Numi, I began to appreciate the beauty of this ancient craft," the designer says. "The idea that matter is made of discrete units is a very fundamental one. Ceramic tile represents just that: a small unit which, once multiplied, turns into something larger than the sum of its parts." (SNAP #311)

PHOTOGRAPHY: COURTESY MUTINA

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