TAKE A SEAT!
MEET VITRA’S AWARD-WINNING TASK CHAIR
PAGE 60

FOCUS ON THE WORKPLACE
BEEBE SKIDMORE CONVERTS A FACTORY INTO A VIBRANT OFFICE FOR CREATIVES.
PAGE 20
NEOCON REVIEW: A POST-SHOW LOOK AT THE TRENDS SHAPING OFFICE SPACE.
PAGE 50

HIGH-TECH HYBRIDS
Lighting and acoustics are becoming more integrated than ever.
PAGE 10

AN UPBEAT OUTLOOK
Heartland manufacturers give an optimistic report.
PAGE 40
STRATA_MAT™

The Next Generation Uncoupling Mat

Mortar hydration vents
Accelerates thin-set curing for faster dry time of porcelain and larger format tiles—grout the next day

Mechanical bond
Thin-set mortar forms a mechanical bond to STRATA_MAT™ surface for greater strength

Instant coverage verification
Translucent color indicates proper mortar coverage

STRATA_MAT™ XT
Designed with a 5/16" (8 mm) profile height, so your tiles can align flush with your hard wood flooring.

- For use with modified thin-set mortars
- ASTM C627 (Robinson) - EXTRA HEAVY
- Easy layout - Chalk lines are easily visible
- Anti-fracture protection - Helps prevent cracks

www.laticrete.com | 1.800.243.4788

*lSee Data Sheet 230.99 for complete warranty information.

All trademarks shown are the intellectual properties of their respective owners.
NEWS
6 | IN BRIEF
Architect Asif Khan draws attention to the energy crisis with his installation at Expo 2017 Astana. Lighting for the Harbin Opera House earns top honors. Tate Britain commissions a neon light sculpture.

50 | TRADE SHOW NEWS
We review NeoCon’s trendsetting product debuts.

59 | DATES + EVENTS

DEPARTMENTS
3 | EDITOR’S LETTER
10 | NEW PRODUCT ROUNDUP
26 | PROFILE: STUDIO O+A
Cofounders discuss what’s next in workplace design.

60 | PARTNERS IN DESIGN
Jay Osgerby and Edward Barber collaborate with Vitra on the new Pacific chair.

FEATURES
14 | A FAST COMPANY
R&A Architecture + Design remake an open plan office as a series of adjustable workspaces for BCG Digital Ventures in Manhattan Beach, California.

20 | ROSE CITY REDO
Beebe Skidmore Architects convert a former Portland, Oregon, factory into a vibrant office for creatives.

40 | MADE IN THE U.S.A.
Manufacturers in the Heartland deliver an optimistic report.

42 | GREENSOURCE
A spacious new Dallas residence is net positive.

PRODUCT SPECS
24 | INTERIOR LIGHTING
28 | GLASS + GLAZING
32 | DAYLIGHTING + SUN CONTROL
36 | WALLS + PARTITIONS
38 | CONTRACT FURNISHINGS

CONTINUING EDUCATION
44 | HOME GROWN
A new office building in Portland, Oregon, showcases mass-timber framing—and smart use of local materials.

TWO BY TWO
Design duo Edward Barber (shown) and Jay Osgerby sketched some 350 drawings when partnering with Vitra. Sensitile’s Vapor glass panels (above) feature two layers of mirrored and iridescent patterns. A pair of firms joined forces to create dolly-inspired furnishings (left) for Cornell’s College of Architecture, Art, and Planning.
Design Challenge
Create a retractable private wall within a restaurant that feels natural, artistic, and unimposing when closed off, yet invisible when open.

Project: Matsuhisa Denver - Denver, CO
Firm: Rowland + Broughton

Systems:
- Sliding Pocket Wall used to divide bar from dining space
- Pivot / Swing door for concealing storage

Finishes:
- Frames – Teak
- Inserts – 3 Form Fray Pearl
When It Clicks

I’M SO PLEASED to be the new editor of SNAP. That’s probably because I love that moment of discovery when I come across a new product that meets a real need and works just as its designers intended. My eyebrows go up, registering satisfaction.

I experienced that moment at home recently when my personal product designers, ages 5 and 8, built adjustable task lights using Popsicle sticks, wires, AAA batteries, LEDs, and Dixie cups. The glue dried, they flicked their switches, and we all drew in surprised, quick breaths at the sight of tiny firefly light diffused by paper-cup lampshades. Nothing beats the joy of invention!

There's a similar thrill that comes from delivering the perfect solution for a job. For instance, in one of our product specs stories, “A Fast Company” (page 14), client BCG Digital Ventures was delighted when its architects demonstrated their plan for a custom, modular table by revealing a fun, working model made entirely of cardboard. In “Precious Metals” (page 38), coworking firm Crew Collective needed to feel at home in its new headquarters—inside a gilded, landmarked bank—and was wowed by workstations and meeting rooms built from brass-plated walls.

Elsewhere in the issue, you’ll have your own aha moments checking out innovative ideas for contract furnishings, walls and partitions, and window glazing. And don’t miss our recap of trends from the show floor at NeoCon 2017, which are shaping the future of office design.

We hope you enjoy all the product news in this issue—and that you savor that special moment when you turn the page and see the very thing you’ve been looking for to complete your own best work.

KELLY L. BEAMON Editor
NEW ON CE.BNPMEDIA.COM

**An Introduction to Spray Foam Insulation**
Sponsored by Icynene
Credit: 1 AIA LU/HSW

**Current Trends in School Design**
Sponsored by Icynene
Credit: 1 AIA LU/HSW

**Linear Lighting Frenzy**
Sponsored by Prudential Lighting
Credit: 1 AIA LU, 0.1 IDCEC CEU

**Cutting-Edge Elevator Technology**
Sponsored by Schindler Elevator Corporation
Credit: 1 AIA LU/HSW

**Sustainability and Structural Steel: A Closer Look**
Sponsored by American Institute of Steel Construction
Credit: 1 AIA LU/HSW; 1 GBCI CE Hour

**Exteriors and Outdoor Design**
Sponsored by AGS Stainless, Inc., Bison Innovative Products, Panda Windows & Doors, and Western Red Cedar Lumber Association
Credit: 1.5 AIA LU/HSW; 1.5 PDH; 1 LA CES/HSW

**Exploring Resilient Building Design**
Sponsored by Carliade SynTec Systems, Construction Specialties, Rosa Technology, Smart Vent + ILC Doyer, and Walt & Krenzer, Inc.
Credit: 1.5 AIA LU/HSW

**The Future of Fire-Rated Glass and Framing**
Sponsored by Technical Glass Products (TGP)
Credit: 1.25 AIA LU/HSW

**Innovation and Industry: Ceramic’s Sustainable Story**
Sponsored by Tile of Spain
Credit: 1 AIA LU/HSW; 0.1 IDCEC CEU

**Antimicrobial Protection for Building Materials**
Sponsored by Florida Tile, Inc.
Credit: 1 AIA LU/HSW

**A Look at What’s New in Retail and Hospitality Design**
Sponsored by Construction Specialties, Inpro, Mitsubishi Electric Cooling & Heating, and NanaWall Systems
Credit: 1 AIA LU/HSW

**The Evolving Workplace Environment**
Sponsored by ASI Group, CertainTeed Ceilings, Construction Specialties, and Doug Mockett & Co.
Credit: 1 AIA LU/HSW; 0.1 IDCEC CEU

**The Future of Fire-Rated Glass and Framing**
Sponsored by Technical Glass Products (TGP)
Credit: 1.25 AIA LU/HSW

**Vapor Control: Considerations for Designers and Specifiers**
Sponsored by Sprung Instant Structures, Inc.
Credit: 1 AIA LU/HSW; 1 GBCI CE Hour

**Sustainable Buildings on Demand**
Sponsored by Sprung Instant Structures, Inc.
Credit: 1 AIA LU/HSW; 1 GBCI CE Hour

**Design to Prevent Floor Squeaks**
Sponsored by Advantech’s subflooring by Huber Engineered Woods LLC
Credit: 1 AIA LU/HSW

**Historic Rehabilitation: Window Solutions**
Sponsored by Marvin Windows and Doors
Credit: 1 AIA LU

**Dedicated Outside Air Systems: The Comfortable and Efficient Future of Ventilation**
Sponsored by Mitsubishi Electric Cooling & Heating
Credit: 1 AIA LU/HSW

**Designing for High Winds**
Sponsored by reThink Wood
Credit: 1 AIA LU; 1 PDH

**Capturing Timeless Values with Contemporary Design**
Sponsored by LaCantina Doors
Credit: 1 AIA LU

**Enriching Education with Innovative Strategies**
Sponsored by Icynene

**Design Approaches Enhance K-12 Facilities**
Sponsored by Icynene

**Multifamily Design Innovations: Thoughtful Design**
Sponsored by TAMLYN

**Supporting Sustainable Projects with Healthy Materials**
Sponsored by Armstrong Ceiling and Wall Solutions

**Innovative Wood Use in Tall and Specialty Building Design**
Sponsored by reThink Wood

**Cool Roofs for a Hot Planet**
Sponsored by Duro-Last® Inc.

**Roofs and Condensation**
Sponsored by Duro-Last®, Inc.

**Best Practices for Site Preparation and Installation of In-Grade Fixtures**
Sponsored by B-K Lighting

**A Roadmap to Tall Timber Structures: Design, Approval, Construction**
Sponsored by reThink Wood

**Advances in Manufacturing Masonry Thin Veneers**
Sponsored by Oldcastle® Architectural

**Life Cycle Assessment and Environmental Product Declarations - The Next Level of Transparency**
Sponsored by Armstrong Commercial Ceiling Systems

**Spray Applied Glass Fiber Insulation**
Sponsored by Monoglass® Incorporated

**The Design Advantages of Lightweight Wood Panels**
Sponsored by Think Lightweight Corp.

**Lighting the 24-Hour Bathroom: Options for Health, Comfort and Sustainability**
Sponsored by Duravit USA, Inc.

**Optimizing Small Bathroom Spaces**
Sponsored by Duravit USA, Inc.

**Bathroom Fixtures as Furniture**
Sponsored by Duravit USA, Inc.

**Metal Exterior Walls**
Sponsored by Petersen Aluminum Corporation

**Masonry and LEED v4**
Sponsored by Echelon™ Masonry

**Glass-Fused-to-Steel (Porcelain Enamelled) Storage Tanks Have Proven Long Lifetime Value**
Sponsored by CST Storage

To receive credit, you are required to read the entire article and pass the test. Go to ce.bnpmedia.com for complete text and to take the test for free.

*Courses may qualify for learning hours through most Canadian architectural associations.*

This course is part of a Learning Academy. Visit ce.architecturalrecord.com/academies.
INTRODUCING THE
CLEAR SOLUTION ™
FOR FIRE RESISTIVE FLOORS

USA-made, 2-Hour Fire Resistive Floor System with the largest individual glass sizes.
Modular top-loaded fire resistive floor assembly for easy installation.
Can be used in interior and exterior applications with multiple glass make-ups and frame finishes.

For more information on the GPX FireFloor System and our complete line of fire rated glass and framing products, visit www.safti.com or call us toll-free at 888.653.3333.
Asif Khan’s Exhibit Brings the Evolution of Energy to Light

A STUNNING INSTALLATION by Asif Khan is helping Britain make a global statement about the past and future of energy at an exposition currently under way in Kazakhstan.

The yurt-like structure at Expo 2017 Astana is intended to spark discussion on energy solutions. Visitors to its dome of polycarbonate spokes get treated to a video on a wraparound screen that orbits the structure; the video plays the physical history of energy, beginning with the origin of the universe 13.8 billion years ago and ending with the invention of graphene, an advanced carbon-like material that’s stronger than steel. The animation is set to a score created by Brian Eno, the British musician best known as producer for David Bowie, Talking Heads, Devo, and U2.

“The idea that everything, including life on earth, is comprised of this archaic energy is fascinating to me,” writes Khan on his website. “I wanted to find a way to express this relationship to our visitors and explore how energy is being continually harnessed and balanced around us.” The installation coincides with Khan’s most recent honor: being appointed by Her Majesty Queen Elizabeth II as a Member of the British Empire (MBE), a medal awarded for outstanding achievement and community service. His statement-making Astana exhibit will be on view through September 10. —Danielle Cohen

Chinese Opera House Wins Top IALD Honors

THE STRIKING ARCHITECTURE of the Harbin Opera House has received attention, and now its illumination by Beijing United Artists Lighting Design has won the lighting industry’s highest honor.

At the recent 34th annual International Lighting Design Awards, the Chinese opera house, built by MAD Architects, was presented with the International Association of Lighting Designer’s Radiance Award for Interior Lighting. The building, which opened in December 2015, features a variety of lighting strategies that are concealed within its undulating architecture. The effect is dramatic: Twinkling ceiling spots in the corridor appear starlike, and inside the auditorium strip lighting both delineates and illuminates the structure. Dongning Wang accepted the award for his firm.

IALD presented honors to 22 projects in eight countries around the world, spanning work on museums, public parks, monuments, retail environments, and even one house. Among the other recipients, Cooley Monato Studio received the association’s Award of Excellence for its dynamic LEDs at Barneys New York, and Schuler Shook won an Award of Merit, for its illumination of the newly designed Chicago Riverwalk. —DC

The Tate Britain’s Neon Doodles

AN ARCHITECTURAL lighting masterpiece by artist Cerith Wyn Evans was selected this year to be the annual site-specific installation commissioned for Tate Britain’s Duveen Galleries. The work Forms in Space...by Light (in Time) features over a mile’s worth of white neon tubing—Wyn Evans’s signature material—arranged in straight, curved, and spiraling forms, which is suspended from the ceiling at more than 1,500 points. These light sculptures are meant to echo variations of musical notes as they unfold across three sections of the 300-foot-long hall. The gorgeous explosion of neon will be on view in the Neoclassical hall (the building was designed by American architect John Russell Pope and English architects Gilbert H. Jenkins and W.H. Romaine-Walker) through August 20. —DC

THE ILLUMINATI

The lighting design for China’s iconic opera house has earned the IALD Radiance Award.
“As soon as we knew we wanted it to be colorful, metal became the obvious choice for the exterior. PAC-CLAD corrugated metal would be the most economical, long-lasting material.”

-Art Lubetz, principal, Front Studio Architects
NEW BLUE. NEW POSSIBILITIES.

“New Guardian CrystalBlue™ is perfect for contemporary structures that are big on light, smart on energy. Our clients prefer its light blue color, and CrystalBlue pairs perfectly with the SunGuard® coatings we specify.”

Paulo Perkins, GraceHebert Architects

SNX 51/23 on CrystalBlue
SN 68 on CrystalGray
Spandrel HT
Discover the new standard. CENTRIA Formawall® insulated metal panel systems are now complete with uniquely innovative thermal and moisture control technology. The Formawall Pressure-Equalized (PE) Seal Plate addresses air and water infiltration with a curtainwall approach, creating pressure equalization at the end joint of every panel and shielding against water infiltration with multiple lines of defense. Combining the PE Seal Plate with Formawall’s pressure-equalized side joint produces the most advanced, high performance insulated metal panel system on the market today.

**CENTRIA**
REIMAGINE METAL

Discover the next chapter in innovation at CENTRIAperformance.com/PESealPlate
To learn more call 1.800.250.8675
Cutting-edge design adds flexibility in contract settings.

1. **SATELLIGHT**
   - **MANUFACTURER:** Foscarini
   - **PERFORMANCE:** This elegant suspension provides a dimmable 2700K LED inside a diffuser made from handcrafted, milk-white glass.
   - **PRICE RANGE:** $$$
   - **APPLICATIONS:** The fixture, available in conventional 220V and 240V lamps or an LED, is UL-listed for use in contract settings.
   - **FOSCARINI.COM** (SNAP #200)

2. **PÉTALE**
   - **MANUFACTURER:** Luceplan
   - **PERFORMANCE:** A white-tunable LED strip around the perimeter adds color options alongside the dimmable 3000K LED at the center of the fixture.
   - **PRICE RANGE:** $$$
   - **APPLICATIONS:** An elastic textile diffuser, covering the fixture’s 47 ⅛”-diameter frame, combines the performance of LEDs with sound absorption for hospitality settings.
   - **LUCEPLAN.COM** (SNAP #201)

3. **ADORNE**
   - **MANUFACTURER:** Legrand
   - **PERFORMANCE:** The Adorne Furniture Power Center, which comes in 10 finishes and three sizes, adds convenient control panels in furnishings for switching, dimming, and charging devices.
   - **PRICE RANGE:** $$
   - **APPLICATIONS:** Developed to let designers choose where to add individual lighting controls, Adorne’s Power Centers can enhance guestrooms and lobbies.
   - **LEGRAND.US** (SNAP #202)

4. **BEMOLLE**
   - **MANUFACTURER:** Snowsound
   - **PERFORMANCE:** Designed by Italian firm Atelier Mendini, the natural-looking folds of this wall-mount textile absorb 94% of human speech.
   - **PRICE RANGE:** $$$
   - **APPLICATIONS:** Fire resistant and machine washable, the 94 x 41” drapes have removable outer fabric in white, red, and dove gray for any public spaces.
   - **SNOWSOUNDUSA.COM** (SNAP #203)
5. HEARTFELT
MANUFACTURER: Hunter Douglas Architectural
PERFORMANCE: Designed by architects Schmidt Hammer Lassen, these slim panels have an NRC rating of 0.50, 0.60, or 0.70 depending on their spacing.
PRICE RANGE: $$
APPLICATIONS: Available in 8’ lengths, the panels allow for flexible spacing around lighting, HVAC, and fire-safety features.
HUNTERDOUGLASARCHITECTURAL.COM (SNAP #204)

6. C BY GE SOL
MANUFACTURER: GE
PERFORMANCE: This light incorporates Amazon’s Alexa Voice Service and performs tasks such as ordering dinner and playing music.
PRICE RANGE: $$
APPLICATIONS: Programmable features, such as sleep-enabling light and tunable color temperatures, make it a hit for homes.
GE.COM (SNAP #205)

7. N4 HUB
MANUFACTURER: Ketra
PERFORMANCE: Designers can easily configure and control Ketra’s high-tech LED lighting systems with this little hub.
PRICE RANGE: $$$
APPLICATIONS: Plugged into a modem, the N4 relays designers’ configurations to devices across the system, including to Ketra’s proprietary mobile app.
KETRA.COM (SNAP #206)

8. ZINTRA ON ZINTRA CONCERTINA
MANUFACTURER: MDC
PERFORMANCE: Specified on Concertina screens, a Zintra fabric layer increases the dividers’ acoustic performance with an NRC rating of up to 0.95.
PRICE RANGE: $–$$
APPLICATIONS: The lightweight, folding screen comes in custom colors and preassembled; an easy solution in retail and offices.
MDCWALL.COM (SNAP #207)
EVOLUTION®
CUSTOM ARCHITECTURAL METAL ROOF SYSTEM

APPLICATIONS
EVOLUTION is a custom architectural metal wall and roof system without raised battens for a smooth contemporary design. It features concealed fasteners and a continuous internal drain channel. It can be used on straight and both concave and convex curved surfaces as well as complex surfaces with unique geometry.

WARRANTY
Manufacturer’s 20 Years Leak-Proof Performance

INSTALLATION
Overly provides a “complete” system package to include hardware, flashings, closures, etc. Custom shop drawings are standard and “Overly On-Site” mechanics assist with initial layout and start-up.

- Install starter base materials and continuous internal drain channels to a suitable substrate.
- HD Infill Board is set in place between drain channels prior to the metal roof panel.
- Install the panels between drain channel extrusions and anchor to substrate as required.
- Install the gasket to the compression cover and secure the assembly to the drain channel.
- Install & seal the cover cap securely over the compression plate to complete standard installation.
- Complete installation by installing perimeter covers and flashings.
- Can anchor to 3/4 plywood and a minimum 18GA metal substrate.

TEST DATA
- UL-580 Class 90 (Uplift Resistance)
- ASTM E 330 (Structural Performance)
- ASTM E 283 (Air Infiltration)
- ASTM E 331 (Water Penetration)

Testing is not applicable to all substrates, materials, and dimensions. Additional testing and analysis is available upon request.

COVER CAP
The width of the cover cap is 2 ¾ inches.

PANEL SIZE
Width: Maximum extrusion center is 4 feet in select materials and gauges
Length: Maximum panel length is 30 feet in select materials and gauges

MATERIALS & FINISHES

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>PANEL THICKNESS / WEIGHT</th>
<th>FINISHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>18 GA (0.040&quot;) / 16 GA (.050&quot;)</td>
<td>Painted (PVDF) finishes include: Standard, Custom Metallic, Mica, Exotic, Weathered Patina Prints, Woodgrain Prints, Embossed</td>
</tr>
<tr>
<td>Stainless</td>
<td>24 GA (0.024&quot;) / 22 GA (0.029&quot;)</td>
<td>2B, 2D, Matte, Custom Directional &amp; Non-directional</td>
</tr>
<tr>
<td></td>
<td>20 GA (0.036&quot;)</td>
<td>(Grade 1) Mill and Matte</td>
</tr>
<tr>
<td>Titanium</td>
<td>26 GA (.018&quot;) / 24 GA (.024&quot;)</td>
<td>Back Coated Natural, Pre-Weathered, Colored</td>
</tr>
<tr>
<td>Zinc</td>
<td>0.7 mm / 0.8 mm / 1.0 mm</td>
<td></td>
</tr>
</tbody>
</table>

Recycled content varies upon material selected. All metal components are 100% recyclable.

We provide free cost estimates and detailed quotations. Our engineering deliverables include shop drawings, anchor details, and wind load calculations. We can fully engineer our materials to local codes with an engineer registered and licensed in your state.

Contact Overly for more information on how this system can be applied to a vertical surface.

OVERLY
CUSTOM METAL SYSTEMS
SINCE 1888
1-800-979-7300
overly.com
Azon Saves Energy

Daylighting systems produced with Azon structural thermal barrier technologies—the MLP™ or Dual Cavity—for aluminum windows and high performance glazing components for insulating glass, will yield a fenestration system capable of upholding the highest efficiency and sustainability standards.

- Polyurethane polymer with superior insulating properties for the best balance of energy efficiency and performance
- NEW: MLP™ (mechanical lock profile) and dual cavity designs for fenestration products used in the most demanding climates and conditions
- High strength for larger spans—industry’s strongest thermal barrier for aluminum storefront, curtain wall and windows
- AZO/Tec® technical services with expertise in window design

Extreme cold temperatures of -100°C (-148°F) will not transfer through an aluminum frame with a modern pour and debridge thermal barrier (and neither will high temperatures in very hot environments)
BCG DIGITAL VENTURES
MANHATTAN BEACH, CALIFORNIA

A Fast Company

CHALLENGE: Upgrade the typical open office to include a series of adjustable workspaces for a rapidly expanding company.

SOLUTION: Custom tables and hexagonal breakout rooms add functionality to a floor plan worthy of a multicity rollout.

DESPITE ALL THE digital design tools at its disposal, R&A Architecture + Design occasionally achieves better results with an analog process. Case in point: BCG Digital Ventures, a quickly growing products incubator, hired the five-year-old architecture practice to create its new North American Center, on two floors of a 1980s-era building in California’s Manhattan Beach, just minutes from the sand.

Early on, the client’s need for flexible workspaces that could satisfy accounts people one day and creatives the next led R&A principal Christian Robert and his team to render their ideas in one of the most accessible and flexible materials around—cardboard moving boxes. Using them to mock up full-scale conference tables and walls, they found a solution to BCG’s challenge of accommodating the work styles of three distinct teams—in ways that help them collaborate, not collide. The company’s business consultants and strategists, for example, needed breakout rooms for joint work sessions, designers required plenty of flat work surfaces and wall space for vetting drawings and renderings, and engineers had to have permanent, quiet workstations.

“The client said, ‘Don’t give me just an open floor plan,’” Robert recalls. “They’d had a bad experience with [standard] open offices. Designers and software developers were stuck in open areas, and consultants hogged the conference rooms.”

Some clients might be put off by the sight of architects unfurling U-Haul-box prototypes, but as a company accustomed to bringing its own products to fruition through experimentation, BCG was delighted by R&A’s approach. The client even kept the cardboard models for internal presentations to employees, asking the architects to make a second “working” set. Not only had R&A hit upon a solution for the awkward 45-degree angles of the Manhattan Beach office floor plan, but it also landed on a template that BCG wanted to roll out to satellite offices in New York, London, Seattle, Shanghai, Sydney, and several other cities around the world. They would use a series of hexagonal project spaces, dubbed Venture rooms, to create more wall-display space than you’d find in a square room. Custom-made movable rhomboid tables would be adapted to each team’s needs. The almost-circular spaces have an effect analogous to that of a round dining table—no one is at the head, so hierarchies (ideally) dissolve.

In some iterations, more glass is added to the design. “The transparency allows [collaborating] teams [who share a project] to know what [counterparts] are working on,” says Robert. “There is cross-pollination.”

Clients and staff navigate the 54,000-square-foot Manhattan Beach office along an internal “beach walk,” a pathway of Maxwood veneer flooring with a noise-reducing cork backing. Being able to see into the glass-enclosed workspaces helps orient them to the correct project. The walkway provides a slight separation between
The Dri-Design Wall Panel System can be customized with a nearly endless combination of materials, finishes, shapes and textures, providing the freedom to design beautiful facades. However, Dri-Design’s truest beauty lies in the elegantly simple design, which eliminates the need for joint sealants and gaskets, can never delaminate and is 100% recyclable. This means the striking white façade at Lackland Air Force Base needs minimal maintenance to be dazzling for decades.

- No sealants, gaskets or butyl tape means no streaking and no maintenance for owners.
- Not laminated or a composite material, so panels will never delaminate.

- At Dri-Design, we have a strict policy of recycling and creating products that the world can live with.
- Fully tested to exceed ASTM standards and the latest AAMA 508-07.
- Available in a variety of materials and colors.
workstations and the potential distractions of the Venture rooms, but it doesn’t block daylight from the enclosed spaces. And while so much floor-to-ceiling glass can be cost prohibitive, the architects were able to economize with single-pane indoor glazing because the office-wide white-noise system they implemented made double glazing unnecessary.

While the office has several spaces for impromptu work sessions or casual conversations, the most vibrant of these is the so-called Town Hall, the communal heart of the office, which can take on the role of a dining hall or an event and lecture venue. In another nod to beach culture, the architects gave off-the-shelf picnic tables a coat of varnish and retrofitted them with USB and power outlets. Tiered seating on two sides of the space—along with a ceiling-mounted steel-pipe grid supporting audiovisual and lighting equipment—helps transform the space for presentations as needed.

Serving as an incubator for the incubator, the Manhattan Beach office spawned most of the concepts R&A has deployed in BCG’s other offices. So far, six projects have been built based on the first one. Some elements thrived off new standards across the locations. The custom rhomboid tables originally developed for Venture rooms, for example, found their way into other workspaces. All desks are height-adjustable and outfitted with casters; meanwhile, bright carpeting has improved wayfinding.

Each office really comes alive, though, with its own idiosyncrasies and signature touches. “The client is super willing to test things,” says Robert. “One thing I’m working on now is the idea of hyperlocalizing the design.” That means the floor plan being rolled out in each office leaves room for a local team to fill in some elements for themselves. (Phase 1 of the Manhattan Beach project encompassed the building’s sixth floor, shown on these pages; the client later decided to double the office’s size by adding another floor.) In the New York office, one employee designed a signature font for the space; the team also decided to sacrifice some workstations in favor of an open lounge area, where a cocktail trolley makes the rounds from time to time.

“As a designer, you have to take a step back and abandon a little control,” Robert points out. “But at the same time, you get a lot more buy-in from the local team.” His young firm has learned one lesson in its short tenure: It takes trust, and perhaps a few cardboard boxes, to win trust in return.

Thanks to their casters, the diamond-shape tables (top right) can be easily reconfigured to suit specific scenarios.
VARIANT®
the adjustable hinge system
for commercial doors.

Common door problems, e.g. door sagging, foundation wall settling, warpage, require door assembly adjustments to maintain the functionality and meet life/safety requirements.

The VARIANT series hinge systems offer a simple three-way adjustability feature allowing the installer to meet precise installation and maintenance requirements with the turn of an Allen wrench.
CHARRETTE
A NEW WAY TO DESIGN, ORGANIZE, COLLABORATE AND SHARE

DESIGN
Start your project, bring in ideas, photos or documents.

ORGANIZE
Move ideas to tasks, design to others. Customize Charrette to your project.

SHARE
Create a portfolio and submit project info to be featured.

COLLABORATE
Work with your team, clients or vendors. Archive chats for future reference.

learn more at www.arcat.com/charrette
Find your comfort zone. On so many levels.

Establish a comfort zone with Solarban® glass by Vitro Architectural Glass (formerly PPG Flat Glass)—now under new ownership and driven by the same U.S.-based plants, people and products trusted by architects for years.

Within the Solarban® brand family of low-e glass coatings, you’ll find a wide array of solar control performance and aesthetic options delivering unparalleled choices. Backed by 50 years of proven reliability and a formula for the future, you can find comfort in the Solarban® glass family.

Start your own stack of Solarban® samples at vitroglazings.com/solarban or 855-VTRO-GLS (887-6457).
SWIFT AGENCY
PORTLAND, OREGON

Rose City Redo

**CHALLENGE:** Expand the floor plan of a compartmentalized former factory without changing its footprint.

**SOLUTION:** Build upward to find an additional 5,000 square feet.

In 2015, as the Portland, Oregon–based strategic creative agency Swift hunted far and wide for a new base, a potential headquarters appeared outside its window. Adjacent to Swift’s existing location, the speculative redevelopment of the Rose City Awning factory into an office building was getting under way. “We had opportunities to be part of new construction,” COO Maren Elliott says of researching a company move. But what she calls “the history and thoughtful approach to reusing the space” next door proved more alluring.

Local firm Beebe Skidmore Architects was responsible for the core and shell of the factory conversion, which had been intended for five separate lessees. When Swift offered to install its 150 employees in the entire 25,000 square feet, architects Heidi Beebe and Doug Skidmore urged their client to accept. Single tenancy promised to remove partitions between workspace and circulation and to better integrate office and neighborhood landscapes, Skidmore recalls explaining. Swift signed the lease, then tapped Beebe Skidmore as its interior architect.

“The Swift building is a mix of old and new, industrial roughness and refined sleek surfaces. That combination appears in both big moves and small touch points,” Beebe says of the intertwined commissions.
Rose City Awning was originally constructed in 50-by-100-foot modules over the course of two decades. Because the assemblage fell about 5,000 square feet short of Swift’s program, “we had to identify a source for extra areas quickly,” Skidmore says. The design team paired old and new for a solution, replacing two of the building’s three north-facing sawtooths with a double-height version and putting in three more double-height monitors elsewhere. Mezzanine workspace occupies those volumes. Besides expanding the vintage building to 30,000 square feet, the sawtooth-as-mezzanine strategy enhanced daylighting. “Having natural light is especially important for people who choose to live in Portland,” says Swift founder Alicia McVey. “It produces a healthier feeling inside.”

That employees and visitors would feel part of Portland—and not just occupying any old building anywhere—was another criterion for the project. Besides preserving Rose City Awning as much as possible, the architect responded to the authenticity charge by making the building more porous to the street. The main entrance, which is a Dorma custom-fabricated 9-by-20-foot operable glass wall. “This window wall connects the heart of Swift to a covered courtyard that meets the city street directly,” Beebe explains. “The operable glass panels can be used as a single hinged entry door, or opened completely on an accordion track so there is no barrier between the city and Swift.” The courtyard located within the retractable threshold is covered by the remaining midcentury sawtooth.

For an additional nod to local identity, the space is punctuated by a 24-foot-long custom picnic bench created by Portland firm The Good Mod. COO Elliott notes, “This atrium is our main entrance for everyone, including clients and potential employees; it speaks to an ethos of transparency and welcome.”

Incising the factory’s concrete-masonry structure wherever it was affordable to do so, Beebe Skidmore extended the covered courtyard into wide interior corridors organized around an expansive common area. That central node includes a kitchen niche that opens to a series of standing tables with barstools, as well as a conversation pit whose bench seating marks its sunken perimeter. The generously proportioned scheme supports views to the street and neighborhood—as well as Swift’s company culture, in which the casual run-in in the kitchen or hallway can lead to an impromptu brainstorming session a few steps away. Finishes with a residential sensibility encourage that easy interaction between colleagues: The kitchen’s gray-stained plywood cabinets, Daltile backsplash, and stainless-steel counters could very well be in a stylishly renovated bungalow nearby; raised floors are whitewashed juniper grown in Oregon and milled at In the Sticks in Fossil, also in Oregon.

Swift depends on meetings and conference calls, and for these work sessions Beebe Skidmore placed multipurpose rooms along the Rose City Awning perimeter and within the new mezzanines. Office and conference partitions throughout the space employ frameless, butt-jointed glass sheets that ostensibly disappear from view. Gray Filzfelt wall panels and Interface carpet tiles laid over architectural surfaces help soften their tactile and acoustical edge. Swift’s design seamlessly connects old and new, just as it links the formal and informal. It’s the epitome of fluidity.
SAGEGLASS IS DYNAMIC GLASS THAT TINTS ON DEMAND.

Visit sageglass.com/dynamic today to connect with our dedicated industry experts who will work with you to make your next project stand apart by using SageGlass.

877-724-3321 | dynamic@sageglass.com

sageglass.com/dynamic

DARE TO BE DYNAMIC

In a bold move, Stanton Architecture dared to be dynamic using SageGlass to construct the entire façade of ‘Dirty Habit DC,’ the revolutionary new restaurant in the heart of the nation’s capital.

RESEARCH SHOWS THAT PEOPLE IN BUILDINGS THRIVE WHEN CONNECTED TO THE WORLD AROUND THEM. SAGEGLASS Creates THAT CONNECTION.

Visit sageglass.com/dynamic to discover SageGlass for yourself.

SNAP 85
JUST (1) LOWER BACK INJURY

Or

(1) SMASHED METATARSAL

Or

(1) TORN ROTATOR CUFF

CAN COST MORE THAN (1) DOCK LIFT

• PROTECT WORKERS
• SAVE MONEY
• INCREASE EFFICIENCY

INSTALL AN ADVANCE DOCK LIFT

1-800-THE DOCK (800-843-3625) www.advancelifts.com
Sound and Vision

FROM CUTTING INTO dropped ceilings to strategically spacing baffles, architects and designers have long sought unobtrusive ways to specify good sound control alongside appropriate lighting without compromising either. So recently, manufacturers of both lighting and acoustics have begun offering hybrids—acoustics/lighting products that perform the two functions in one. 

Luceplan, for example, collaborated with architects Odile Decq and Monica Armani on handsome luminaires that conceal acoustical material within the fixtures themselves. Armstrong Ceiling Solutions developed a system that integrates USAI-brand lights within the ceiling grid for a seamless appearance. And felt and furniture brand Buzzispace continues to expand its lighting line, which incorporates its proprietary acoustical material. Now Seattle-based LightArt, a 3form company, has tossed its hat into the ring.

“Designers would look at our [fixtures] and ask if we had something like those, but acoustic,” says Ryan Smith, president and creative director of LightArt, of why the company began rolling out such offerings.

During New York’s annual NYCxDesign festival, LightArt unveiled two of its first forays in the category. Static is a linear LED suspension with a clean, minimalist look. Instead of acrylic, metal, or wood, sound-absorbing PET felt sandwiches the light source. The combination fixture is ideal for offices. It comes in 4- and 8-foot lengths with felt panels in nickel or cast gray.

More dramatic in appearance, Echo is a pendant light with baffles that fan out like spokes on a wheel. But its design is not purely decorative: The dimensional geometric patterns produced by combining Echo modules in various configurations can provide an NRC value ranging from 0.85 to 1. “Often our research comes from needs or gaps we see out in the field. We’re solving the problem of high-quality lighting over people’s heads. Why can’t we solve [for] acoustics as well?” says Smith. Now that’s music—or should we say silence—to our ears. —Sheila Kim
**LIK**
**MANUFACTURER:** Axo Light
**PERFORMANCE:** This aluminum wall sconce measures 3 ¾” wide by 7” high with a maximum 3 ½” depth. The built-in LED is a 6W, 3000K bulb that provides from 81 to 1350 lumens.
**PRICE RANGE:** $$$
**APPLICATIONS:** With its minimalist form playfully alluding to a tongue, Lik looks at home in many settings, from residential to hospitality to retail. The gently curved fixture, available in bronze, matte nickel, or white, conceals a single dimmable LED.

(axolight.it)
(SNAP #213)

---

**DIADE**
**MANUFACTURER:** Luceplan
**PERFORMANCE:** Available with adjustable or vertical-only acoustic wings, this suspension features a 3000K LED as well as sound-absorbing PET.
**PRICE RANGE:** $$$
**APPLICATIONS:** Architect and designer Monica Armani follows up her Silenzio drum pendant with this linear LED for workplaces and other commercial settings. Aoustical “wings” flanking the beam can fold down to form a ceiling cloud or close vertically. Choose panels in blue, black, or beige.

(luceplan.com)
(SNAP #214)

---

**LIGHT GUIDE RING**
**MANUFACTURER:** Sonneman
**PERFORMANCE:** The technology used to backlight smartphones enables this pendant’s glare-free illumination: A single 13W, 3000K LED at each ring’s edge emits light through points across the acrylic lens for perfectly diffused downlighting.
**PRICE RANGE:** $$$
**APPLICATIONS:** Suited to residential or hospitality settings, the 8”-diameter aluminum disc comes in a single or cluster, with a satin finish in either black or white.

(sonnemanawayoflight.com)
(SNAP #215)

---

**MIDISPY TRIMLESS**
**MANUFACTURER:** Delta Light
**PERFORMANCE:** The 5.9W, 2700K white LED of this adjustable fixture provides 530 lumens and a flood reflector for beam angles up to 40°. With a maximum rotation of 355°, it can be angled up to 90°.
**PRICE RANGE:** $$$
**APPLICATIONS:** As it transforms from a recessed downlight to a ceiling lamp and directional spotlight, this light is ideal for gallery, commercial, and even residential applications. The 2”-long by 1 ¼”- across housing is offered in white and black.

(deltalight.us)
(SNAP #216)

---

**Good Day, Sunshine**

IT HAS BEEN SAID THAT HAPPY, healthy employees are also productive ones. At progressive offices, access to natural light is high on the list of mood-boosting on-site benefits. For spaces farthest from the windows, this can mean using innovative LED lighting to mimic natural light—even sunsets. (Tunable artificial light is thought to support circadian rhythms as much as real sun does.)

One company leading the charge into such natural-light simulations is Austin, Texas–based Ketra, which offers a fully integrated system from the proprietary driver chip technology and lamping to controls and fixtures. Its Natural Show setting, which transitions throughout the day without any intervention, can even be programmed to imitate the intensity, brightness, and temperatures of daylight in a client’s geographic region. “Ketra’s solution is based on an astronomical clock contained within our controllers,” explains CEO Nav Sooch. “This clock is programmed to your location, knows sunrise and sunset, and extrapolates the Natural Show from these points.” What it doesn’t do is mimic the exact light outside at a given moment. (Feedback from customers was that even on cloudy days, they prefer spaces to appear sunlit.) So far, the Natural Show setting has been installed in offices for Squarespace, Vice Media, and the Foster + Partners–designed R/GA, among others. It runs from $5 to $15 per square foot.

Not all Ketra’s lighting systems run the Natural Show setting nonstop. “A project can have multiple programmed settings, allowing [someone] to change the lighting at the tap of a finger,” says Sooch, but “most use the Natural Show as default.” Naturally. —SK
Verda Alexander and Primo Orpilla cofounded Studio O+A in 1992. Since then, the two have led their San Francisco design firm in creating groundbreaking workspaces for Facebook, Uber, and Microsoft, among other big-name clients.

The rough total of recent design work featured on the firm’s website.
We make building products to keep structures dry and safe.

E. Series by EPRO provides project teams with good, better, best, approach to keeping their buildings dry and safe. Learn more about our unique Redundant Field-installed Composite design at: www.eproinc.com

Epro provides below grade building envelope protection against water, methane gas, and a wide variety of chemical contaminants.
Clear the Way

**THIS JANUARY**, workplace-software developer Slack got an office in Lower Manhattan befitting its reputation as a pioneer of free-flowing, unencumbered intra-office communication. New York firm Snøhetta designed a 12,000-square-foot headquarters that encourages spontaneous, fluid communication by using glass partitions instead of opaque dividers and walls to organize the space. The solution allows a gridlike plan of breakout and meetings rooms arranged along a central corridor to feel open and accessible to each other—much like the company’s hallmark messaging software supports the exchange of ideas between coworkers.

Transparent partitions separating six conference rooms (plus one larger executive boardroom) and nine booths are all made from Muraflex tempered glass, which has a sound transmission class of 37 to ensure privacy while still allowing staff to see into rooms. To echo the company’s fun, inclusive culture, architects added colored film—by Decorative Film and 3M—on conference rooms’ glass walls in shapes and hues inspired by the Slack logo.

In addition to reflecting the company culture, glass walls offered a way to retrofit modern circulation into the 1880s building; it’s landmarked, meaning architects had to work within the existing footprint and around original windows and four 20-by-5-foot skylights. While the actual skylights were left untouched, edges of their enclosures were extended and widened to meet a dropped ceiling and allow more natural light to penetrate the space, says **Anne-Rachel Schiffmann**, senior architect for the firm. —Ashleigh VanHouten

---

**TRANSPARENCY AT WORK**

Glass walls help keep communication flowing in Slack’s new Manhattan offices.
**Lacobel T**

**Manufacturer:** AGC Glass Company  
**Performance:** Available in more than 20 colors and in clear and satin finishes, this Cradle-to-Cradle-certified glass is ideal for building facades and interior wall cladding, door panels, elevators, and signage.  
**Price Range:** $$

**Applications:** Use this temperable float glass, back-painted with low-VOC paint, for interior and exterior applications.

[US.AGC.COM](http://US.AGC.COM) (SNAP #217)

---

**Climaclear**

**Manufacturer:** NanaWall  
**Performance:** A frameless all-glass single-track sliding system engineered for transparent weather protection and acoustic privacy, ClimaClear has no vertical stiles, giving the appearance of an all-glass unit.  
**Price Range:** $$$

**Applications:** Standard configurations come with a single-action swing panel and are available in clear anodized, brushed, dark bronze, and black anodized options.

[NANAWALL.COM](http://NANAWALL.COM) (SNAP #218)

---

**Vapor Glass**

**Manufacturer:** Sensitile  
**Performance:** Made with recycled materials, this lightweight glass (also offered in resin), available in four panel sizes, seven scalable patterns, and 20 colors, is ideal for screening, feature walls, and signage.  
**Price Range:** $$$

**Applications:** Sensitile layers mirrored and iridescent patterns in various configurations and colors that are accentuated when backlit.

[SENSITILE.COM](http://SENSITILE.COM) (SNAP #219)

---

**Vivid Pastels Satintech Glass**

**Manufacturer:** Bendheim  
**Performance:** The “soft-etched” finish of this antiglare glass is lightly reflective and resists fingerprints, making it ideal for high-traffic surfaces.  
**Price Range:** $ 

**Applications:** Available in 60 x 120” sheets, the glass is back-painted in 12 soft pastels including robin’s-egg blue, lavender off-white, and pale green tea.

[BENDHEIM.COM](http://BENDHEIM.COM) (SNAP #220)

---

**Local Vernacular**

**Family Owned Since 1916,** the Washington Fruit & Produce company in Yakima asked Seattle firm Graham Baba Architects to design its new headquarters with a look departing from that of most industrial agribusiness facilities.

The brief seemed to say “get back to the land,” given that the owners like the vernacular architecture of old barns. “From this grew the idea that the building would have a utilitarian, agricultural, and worn feel,” says Graham Baba project manager Jenn LaFreniere.

But barns aren’t usually flooded with natural light, which the client also wanted. So Graham Baba came up with a careful plan for exterior glazing. One large window wall on the north side takes advantage of Yakima’s approximately 290 sunny days each year. The architects added small clerestory windows on the south. “This way, even light is cast over the workstations, versus all of it coming in from one side,” LaFreniere explains. The team chose Solarban 60 glazing for an interior courtyard to further promote visibility into the building; Solarban 70 was used along the southern facades to lessen heat gain.

To combine the efficient glazing with barnlike features, the team created an exterior of sloping, 18-foot-high structural columns and an outer shell clad in reclaimed local barnwood. Glass fills in the exposed spaces. A Wausau glass wall system—measuring 18 feet high and more than 150 feet long at points—was specified throughout and has controllable shades.

“One of the biggest challenges was consistent lighting and climate control in a location where weather changes dramatically,” says LaFreniere. — AVH
ALUMILINE –
Metal Ceilings & Walls

Alumiline Linear Metal Ceiling System planks are available in elegant 8’, 10’, or custom lengths. This industry-first in ceiling plank design is made from extruded aluminum and is not pan-rolled like traditional metal ceiling panels. Alumiline is an excellent choice for external applications or high-humidity environments such as soffits, carports, or swimming pools. For projects requiring sound absorption, recycled cotton acoustical backer can be installed above the Alumiline ceiling.

Features & Benefits:
- Fast & easy installation
- No special tools required for installation clips
- Washable, scrub-able, mold- & mildew-resistant
- Aluminum trim available
- Can be used on vertical wall applications using direct attach clips
- Scored, radius, or barrel vault instructions available using radius grid
- Available for interior & exterior applications
- Acoustical control is accomplished by installing ASI Echo Eliminator™ or Quiet Liner™ above or behind

Applications:
Auditoriums, bars, restaurants, conference and board rooms, open office areas, hotels, sports and entertainment venues, casinos, aquatic centers, retail stores, theaters, convention centers, lobbies, gymnasiums, arenas, houses of worship, schools, airports, rail stations and more.

Alumiline Install Video Available on YouTube!
Please search “YouTube/Acoustigreen” to see our new Alumiline Wall Install video, and our other product installation videos.”
IT TAKES TWO TO MAKE A PAVER RIGHT

With more than 30 years of paver manufacturing expertise, Tectura Designs – a Wausau Tile Inc. brand – has created the industry’s strongest, longest-lasting architectural pavers with a state-of-the-art process that uses more than 650 tons of compressive strength to forge two parts into singular, versatile works of art – rated at 9,500 PSI.

OUR TWO-PART PAVERS
feature face mixes that allow for the use of finer aggregates and the creation of completely one-of-a-kind looks that include four-color blends. Low absorption test results create resistance to freeze/thaw.

THE OTHERS’ ONE-PART PAVERS
seem like they’d be stronger but have limitations on performance and aesthetics.

Discover pavers that are twice as nice at TecturaDesigns.com
Room with Two Views

A PRIMARY INTENTION for the design of a building to house the London headquarters of telecommunications company Sky Central was maximizing natural light throughout its 11,490 square feet.

The solution was to install a vast H-shaped atrium to drive daylight down from the roof into the three-story space. “This allows daylight to reach office spaces that are a considerable distance from the facade,” says Wayne McKiernan, director for PLP Architecture, the firm behind the design. “That’s a problem in any large-plan building.”

PLP actually used 400 skylights made of low-iron, triple-glazed glass from Interpane. The combination was framed and installed by Prater. For a balance of light and shade, the team gave the rooftop glazing a north angle pitch, McKiernan says, explaining, “Combined with deep beams, that enables a high degree of passive shading from the roof, as the majority of the roof skylights don’t have blinds.”

Another effective device adding natural light is the floor-to-ceiling glass composing the walls of the ground-floor café. Here, the architects specified 59-foot, sliding-glass doors from Vitrosca because their minimal frames offer maximum sightlines.

A clear benefit of all this glazing is that users almost anywhere in the space can greatly reduce their reliance on artificial light. Then there are the perceived health perks. “Increased daylighting can reduce fatigue and increase happiness and alertness,” McKiernan says. It also allows for 27,000 indoor plants to thrive in the hub, which doesn’t hurt either. —Ashleigh VanHouten
CONTROL WINDOW FILMS

**MANUFACTURER:** 3M Sun

**PERFORMANCE:** These invisible films reduce heat gain by up to 37% in the summer and heat loss by up to 40% in the winter; they also help reduce fading of fabrics and floors.

**PRICE RANGE:** $$

**APPLICATIONS:** The film can be applied to any existing window, offering high light transmission with a neutral appearance while reducing interior glare.

3M.com (SNAP #221)

---

NET WORKS

**MANUFACTURER:** Création Baumann for Carnegie Fabrics

**PERFORMANCE:** The three drape designs—the square-net Space, the open-spaced Link, and the large-patterned Globe—were inspired by high-performance activewear knitting techniques.

**PRICE RANGE:** $$

**APPLICATIONS:** The PVC-free Trevira CS shades meet the most stringent flame codes—ideal for commercial settings.

CARNEGIEFABRICS.COM (SNAP #222)

---

ROLLER 225

**MANUFACTURER:** Lutron

**PERFORMANCE:** Manual and motorized versions of these shades deliver superior control of natural light, reducing excess glare and heat gain while letting in daylight.

**PRICE RANGE:** $$

**APPLICATIONS:** Available in sheer, dim-out, and blackout Greenguard-certified fabrics, this option provides a heavy-duty bracket and higher torque to control up to 225 square feet of fabric for larger applications.

LUTRON.COM (SNAP #223)

---

DYNAMIC DOME

**MANUFACTURER:** Velux

**PERFORMANCE:** The geometric ridge pattern on these commercial skylights means light gets transmitted to building interiors rather than bouncing away.

**PRICE RANGE:** $$–$$$$

**APPLICATIONS:** Ideal for warehouse-style buildings, the skylights come in four glazing options: Impact Modified acrylic, LuxGuard and LuxGuard Plus polycarbonate, and General Purpose acrylic.

VELUXUSA.COM (SNAP #224)

---

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

= ECO-FRIENDLY ATTRIBUTES

Where Go the Boats?

**THE RECENTLY OPENED** Eleanor Boathouse at Park 571 in Chicago’s Bridgeport neighborhood has a big job: Its purpose is to help strengthen the locals’ connection to the Chicago River.

Appropriately, the design of the boathouse buildings drew inspiration from the riverside site. The volumes by Studio Gang Architects total 19,003 square feet and span two structures—one for boat storage and one that serves as a training facility, with 57 ergonomic rowing machines and distinctive clerestory roofs. (The architects’ design for the latter was inspired by photographer Eadweard Muybridge’s 1880s stop-motion images of rowing.) Their shapes incorporate structural steel trusses at angles that echo the high and low positions of rowers’ oars. Using polycarbonate windows instead of glass in these clerestories helps in both lighting the building and reducing its heating demand in winter. In summer, the windows open, providing enough ventilation to eliminate the need for mechanical cooling.

According to Exterior Technologies (Extech), whose Lightwall 3440 was specified for the clerestories, the opalescent panels offer just 51 percent light transmission, compared with nearly 90 percent from a clear window. That’s how they’re able to “provide a softer, more diffused daylight and drastically reduce glare,” says Extech general manager Jim Leslie.

—AVH

ROW, ROW, ROW

The field house (exterior view, left), which accommodates year-round rowing classes, uses its operable clerestory windows for natural light, passive heating in winter, and cooling in summer (above).
IT’S HOW YOU GET TO THE TOP THAT MATTERS!

Steel Ladder

X Heavy and difficult to install
X Susceptible to rust
X Requires maintenance and costs money over time

O’Keeffe’s Aluminum Ladders

✓ Lightweight, high strength aluminum
✓ Resistant to rust
✓ Maintenance free and low cost

SNAP 24

Proudly made in USA
www.okeeffes.com
Toll Free: 888.653.3333

O’Keeffe’s Inc.
ALUMINUM LADDERS
ACCESS • SHIP • CAGE • CUSTOM
ACCEPt NO SUBSTITUTEs
GLASS ENTRANCE SYSTEMS FROM THE NAME YOU TRUST

Introducing the NEW
AH18 ARCHITECTURAL HARDWARE
GLASS ENTRANCE SYSTEMS CATALOG
Your Definitive Source for Glass Entrance Systems and Hardware

- ‘ALL-GLASS’ DOOR AND SIDELITE RAILS
- BALANCED DOORS
- BI-FOLD GLASS DOORS
- DOOR CLOSERS AND HINGES
- DOOR CONTROLS
- FULL FRAMED DOORS
- HEADERS AND CHANNELS
- LOCKING LADDER PULLS
- PANIC, DEADBOLT, AND ELECTRIC EGRESS HANDLES
- PATCH HARDWARE
- PIVOT DOOR SYSTEMS
- SLIDING AND STACKING GLASS DOOR SYSTEMS
- SPIDER FITTINGS

Phone: (800) 421-6144 Ext. 7700
E-mail: architectural@crlaurence.com
Web: crl-arch.com
Heavy Metal

A PRIVATE ART GALLERY that film producer Steve Tisch commissioned for his Beverly Hills backyard was almost clad in brick. But then L.A.–based architects Johnston Marklee & Associates— which completed the building in March 2016, on the site of a former tennis court downhill from the main house—decided zinc might create a cooler first impression, especially when seen from above.

“Since the gallery sits approximately 40 feet below the main residence, the roof became an important design feature,” says Lindsay Erickson, the project manager. Zinc panels from Rheinzink looked sleek and durable on the exaggerated gables. The building needed to live up to that first impression upon approach. So the architects wrapped the entire volume in zinc for a near-seamless skin that clads both the facade and roof. A total of 6,500 square feet of prePATINA blue-gray Vertical Angle Standing Seam panels make up the exterior walls; 7,000 square feet of prePATINA Double Lock Standing Seam panels in the same color cover the roof. All were fabricated and installed by Glendale, California’s MJC Roofing.

Wrapping the building this way emphasized its contemporary profile, fitting since it houses a collection that includes works by Ed Ruscha and Gerhard Richter. “This project was an incredible opportunity to design a building that in its essence is pure geometry and form, with minimal materials and transitions,” says Erickson.

Gary McKee, a Rheinzink spokesman, says the zinc panels featuring the company’s standing-seam profile offer a great deal of flexibility for such dramatic applications. Erickson points out another benefit: “It will patina to a dark gray.” —Ashleigh VanHouten
Beyond manufacturer: 3form

**PERFORMANCE:** These stacking polygonal “tiles,” made of acoustic foam with ¼-inch acoustic-felt fronts, can be used on—or as—a wall. The class A fire-rated felt is offered in five patterns and eight hues, with 50% preconsumer recycled PET content.

**PRICE RANGE:** $$$

**APPLICATIONS:** The acoustic-felt “building blocks” reduce reverb with an NRC rating of 0.90; without foam, the NRC rating is 0.80.

3-form.com (SNAP #225)

---

CROSSFUSE

**MANUFACTURER:** Architectural Systems

**PERFORMANCE:** Each 4 by 8’ standard acoustic panel comes in HPL or wood-veneer finish layered over an MDF substrate.

**PRICE RANGE:** $$

**APPLICATIONS:** A good choice for hospitality and retail, these wallcoverings with 3-D patterns made from a mix of reclaimed wood veneers (such as teak, ipe, and walnut) absorb and refract noise.

archsystems.com (SNAP #226)

---

ZINTRA ACOUSTIC TEXTURES

**MANUFACTURER:** MDC

**PERFORMANCE:** Made from 100% polyester in 16 colors, the ¼”-thick panels come in 4 by 9’ sheets, ideal for joint-free, floor-to-ceiling applications.

**PRICE RANGE:** $$

**APPLICATIONS:** Their sound-dampening properties and striking design make Zintra on Zintra patterns and Zintra Acoustic Textures a natural choice for offices, restaurants, airports, and institutional spaces.

mdcwall.com (SNAP #227)

---

ECOSCREEN

**MANUFACTURER:** Kirei

**PERFORMANCE:** Used in combinations that can be custom printed (and cut) in 20 colors, these acoustic panels are ideal for contract settings. EchoScreen is made from recycled PET and aluminum.

**PRICE RANGE:** $$

**APPLICATIONS:** When hung from the ceiling or mounted on a wall, this modular 94 by 46” space divider absorbs sound and reduces echo.

kireiusa.com (SNAP #228)

---

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

= ECO-FRIENDLY ATTRIBUTES

---

**Curtain Call**

**THE CENTRAL GALLERY** in the 50,000-square-foot Moody Center for the Arts at Houston’s Rice University is used for dance performances and social functions as well as traveling art exhibitions. The ability to close off part of the multifunctional space but still have it feel connected to the rest of the floor adds to its creative energy.

That’s the reason Michael Maltzan Architecture in Los Angeles came up with its flexible stainless-steel mesh partition—a custom-designed curtain from Cambridge Architectural that serves as the space’s hardworking partition.

To fit the scale of the room, Cambridge Architectural wove together two 11 ½-foot-high curtain panels, one measuring around 46 feet and the other 25 ½. (The mesh is hung sideways so it can pivot at the rods, to allow the curtains to collapse and fold.) The result is a dynamic alternative to solid partitions. The mesh in Cambridge’s Mid Balance pattern has a 50 percent open area, providing more transparency than some of the more tightly woven meshes do. “This curtain retains the open-design intent,” says Dave Zeitlin, a spokesman for the manufacturer.

For the gallery’s high-volume traffic, architects needed something durable that wouldn’t noticeably show wear over time. The curtains also serve a protective function when closing off valuable art, so engineers at Cambridge designed a system to hook them to floor and ceiling tracks that can be locked in place when the partition is extended to seal off the room. —AV

**FUNCTIONAL FLAIR**

Architects specified a custom mesh curtain that can lock in place, a plus especially when art is on display.
Precious Metals

**AS OF MAY 2016**, a former bank in a 1928 skyscraper in Old Montreal, Quebec, houses a sleek coworking space for tech company **Crew**. Local architect **Henri Cleinge** took on the task of creating a modern design that also respected the building's historic bones. “When you renovate a heritage building, it has to look like it can be reversible. We wanted a lightweight structure with some personality, calibrated so it didn’t take over the main space,” he says.

Keeping the original marble-and-brass teller stands was a challenging requirement. But rather than just working around them, Cleinge echoed them in a row of five conference rooms—measuring 11 by 14 ½ feet—which sit like elegant jewel boxes under the coffered 40-foot ceiling in the 12,000-square-foot space. Each room features two walls of **Techniverre**’s transparent glass and two clad in brass-plated steel, fabricated by **Linea P** to echo the old bank’s brass and gilded accents and finishes still found throughout the building. These, along with ten 7-foot-square privacy booths around the perimeter, showcase the rich brass-plated walls, **Syal** chairs from **Herman Miller**, and Cleinge’s custom tables of white oak and steel.

To complement the dramatic furnishings, eight existing chandeliers were upgraded with LEDs. **Guzzini** Laser Blade LED fixtures (small recessed downlight fixtures measuring 1 ¼ inches square) provide discreet lighting in conference rooms and booths.

Though cool and modern, Cleinge’s “temporary installation” works with the historic architecture of the building rather than against it. He credits the client’s flexibility as much as his own resourcefulness: “The project was fun because we had dynamic clients who were open-minded and wanted something contemporary,” he says.

—Ashleigh VanHouten

**IN THE VAULT**
For Crew’s Old Montreal coworking space, a former bank, Henri Cleinge clad the privacy booths (top) and meeting rooms (bottom) in brass-plated panels.
Hello, Dolly!

THIS FUN, INNOVATIVE group of modular furniture, based on the familiar profile of a moving dolly, is the brainchild of three Cornell University alums. Architect William Lim, founder of CL3, along with Vincent Lim and Elaine Lu, cofounders of studio Lim + Lu, designed 12 portable pieces for use in their alma mater’s College of Architecture, Art, and Planning. Knowing that the Gensler-designed building already features movable partition walls, the designers thought the furniture should be versatile, too. “We wanted to complement the space with something flexible and portable,” Lu says.

The push-pull pieces can also be turned on their sides or stood on end for alternative uses. The coffee table, for example, when lifted upright, can be a bookshelf; the three-seater sofa doubles as a coatrack. The block primary colors of the vinyl upholstery on frames of powder-coated steel owe a debt to Le Corbusier, an icon of modernism. “Every piece has two lives—standing up and lying down,” says Vincent Lim. —AVH
Looking Up

Plants in Iowa, Michigan, Minnesota, and Nebraska strike an upbeat note.

BY J. MICHAEL WELTON

FIVE YEARS AGO, Canton, Michigan, was a rare bright spot in Midwest manufacturing, with Duo-Gard Industries churning out polycarbonate canopies for skylights, translucent walls, and bike and transit shelters. “We managed to grow through the recession,” says Dave Miller, the company’s president. “The stimulus package from President Obama had a lot of transit in it, and that carried us through.”

In the rest of the Midwest, things were different. “Five years ago, we were still recovering,” says Bill Blazar, senior vice president of public affairs and business development for the Minnesota Chamber of Commerce. “One of the great lessons of the recession,” he adds, “was just how significant the building products industry is in Minnesota. The recession hit that industry hard.”

But by 2016, manufacturers had reasons to smile. “There was a reduction in federal regulations and the Trump administration started to do away with the overtime rule,” says Jaime Carl, vice president of public affairs and policy for the Nebraska Chamber of Commerce and Industry. “That boosted optimism and investment.”

Today, plants like Whirlpool’s in Amana, Iowa, are flush with production. “The appliance industry is up this year by 4.6 percent,” says Bob Bergeth, the manufacturer’s general manager of contract builder sales and marketing. “For homebuilders, the peak was 2 million housing starts in 2008, and we’re at 1.1 million now. There are a lot of bullish economists out there saying it could last another two to four years.”

People are operating on good feelings, says J.R. Anderson, president and CEO of Minnesota’s Acoustigreen, a division of Acoustical Surfaces. “We’re in an opportunistic state,” he says. Compared with the reality check delivered by the recession, all agree, that’s a better place to be.
The North Star State’s exports (such as agricultural, mining, and manufactured products) were valued at $4.8 billion, rising 5% (or $234 million) between the first quarters of 2016 and 2017. In comparison, U.S. exports increased 7%.

Iowa generates 12.8% of the nation’s construction-machinery manufacturing employment.

Manufacturing workers in Michigan enjoy a 39.6% higher wage than those in the rest of the country.
Green Acres

A sustainable home in a sweltering Texas suburb sets a cool example for energy savings.

BY ALEX KLIMOSKI

WHEN HE HEARD that a family friend had bought a plot of land for her new residence in North Dallas, Paul Merrill, a project architect for 5G Studio, saw it as a unique opportunity. The firm would design its first single-family house and, thanks to the trust already established between client and architect, develop a useful prototype for sustainable living in the hot Texas suburb.

Merrill knew the client wanted to leave a light ecological footprint, but earning LEED certification was not in the original plan. (Nevertheless, the house, completed in 2016, has earned a LEED Platinum rating and is net positive energy, meaning it produces more energy than it uses.)

“When the project started, there was no expectation for this level of energy efficiency,” says principal architect Yen Ong. “It sort of evolved as we educated our client on the benefits and showed her the added value.”

Although the owner lives alone, she wanted the property—known as the Winnwood residence—to have enough space to accommodate frequent visits from relatives. So the architects devised an extensive program comprising three bedrooms, four and a half bathrooms, and a study that converts to a guestroom. A special prep kitchen, a pantry, and a storage room radiate off the open combined living, kitchen, and dining area.

For general energy savings, architects looked first to the building envelope and its site orientation. One challenge: finding ways to let in enough daylight to reduce the need for artificial lighting without causing solar heat gain. Bedrooms featuring full-height glazing with views of the backyard were placed along the building’s north wall. To add shaded outdoor areas but avoid direct sunlight at the east- and western ends, the architects designed inset
The airy combination living, dining, and kitchen area (above) extends into one of two patios. A yard beside the house (far left) allows for free ranging.

patios that bookend the main living space (Both are separated from the interior by floor-to-ceiling sliding glass doors with low solar heat gain coefficients). The other perk of the patios is that they allow for enhanced natural ventilation when the home is not being mechanically cooled. When there’s not enough daylight, energy-efficient lighting fixtures are used.

Indoors, architects made sure that sections of the 4,700 square-foot ranch would have the capability to “turn off” when not in use. Thus, each room is individually insulated and has its own thermostat.

Taking cues from a conservation park located across the street, the design team sculpted an intricately landscaped area composed of native and adapted vegetation around the front of the house, to the south. In conjunction with a rainwater harvesting system, the lush plantings use 72 percent less water than comparable landscapes in the area. Branches of a mature oak cantilever over the front door, shading the entry and serving as a welcoming visual landmark. The site’s permeable paving and other stormwater management tools allow most of the rainfall to infiltrate the soil at a level where it is naturally filtered rather than being allowed to run off and flood storm drains. Such strategies, along with low-flow indoor fixtures, can usually help reduce the amount of water a single-family home consumes.

The house, which features an engineered wood frame, also benefits from a geothermal heat pump and a 10-kilowatt solar photovoltaic system. These are expensive up-front investments, but they yield significant long-term energy savings, says Merrill. “When you are looking at additional costs, you have to consider the additional value, too,” he continues. “You aren’t spending money and never getting it back.”

Architects found ways to shave off some of the building costs as well. For the interior walls, for example, the team reduced the level finish of white Venetian plaster from five to three by doing mockups to see how it would reflect or hide variations in the wall. “It’s really important to investigate alternatives and make informed decisions that can reduce premiums,” Merrill explains. Also, a number of building materials used for the new home were repurposed from the house previously occupying the site.

Granted, the initial costs of building a sustainable home present hurdles for homeowners, but the Winnwood property offers an inventive model with features worth emulating. “A home cannot be viewed as an independent element but rather [should be seen] as a series of interconnected systems, where improvements are achieved not through one decision but through many,” says Merrill. “The prototype is the thoughtful approach.”
Home Grown

In a city where locavores rule, a new office building showcases regional materials and innovative construction techniques.

BY MICHAEL COCKRAM

ALTHOUGH ONLY FOUR stories tall, Albina Yard, a spec office building, stands out among its one- and two-story neighbors in a scrappy residential and commercial district in north Portland, Oregon. Looking up from the street through the horizontal bands of the glass facade, the ceilings of each level—planes of warm Douglas fir—are visible. These elements are not just finish material but the building’s exposed floor plate. Designed by Portland’s LEVER Architecture, Albina Yard, completed in 2016, is one of a handful of buildings in the United States constructed using a mass-timber structural system.

The divide between the new office building and its grittier context is bridged by the architect’s use of understated formal moves and a humble material palette. The scale of the street elevation is modulated and delineated in a subtle dance of cantilevers. The second story projects straight out to form a...
CONTINUING EDUCATION: MASS TIMBER
FROM ARCHITECTURAL RECORD

Specially engineered and fabricated steel brackets (left) connect the columns, beams, and floor plates. These are mostly buried within the wood components and are hardly visible on the building’s interior (above).

Although timber-framed construction has been around for thousands of years, mass timber is a more contemporary spinoff. Instead of solid wood beams and columns made from large trees, mass-timber frames incorporate engineered wood products such as cross-laminated timber (CLT), laminated veneer lumber (LVL), and nail laminated timber (NLT). Such components bind together small wood elements to form strong structural units.

Above its concrete foundation, Albina Yard has an all-wood structure. The architects designed a grid of glue-laminated (glulam) columns and beams with CLT panels acting as floor plates. Used for floor structures, walls, and even elevator cores, CLT panels are made up of three or more layers of dimensional lumber bonded with structural adhesives. Since the shallow protected zone over the storefront at the ground-floor retail space. The facades of the third and fourth floors twist a few degrees off the grid in opposite directions. The effect is like a stack of books slightly askew. Dark corrugated-metal siding, which clads the side walls and other opaque parts of the building, complements the nearly complete two-story office annex (also designed by LEVER) made of shipping containers and located in the rear courtyard of the L-shaped lot.
A WALL THAT ROCKS

IN MANY WAYS, Albina Yard has served as a test-bed for a much more ambitious LEVER Architecture project: the 12-story mixed-use Framework building in downtown Portland, Oregon. It was one of two projects that split the $3 million U.S. Tall Wood Building Prize, sponsored by the U.S. Department of Agriculture, the Softwood Lumber Board, and the Bintional Softwood Lumber Council. At approximately 145 feet tall, Framework is expected to become the tallest mass-timber building in the U.S.

High-rise buildings typically rely on the shear walls that define a circulation core to stiffen the structure. In an earthquake or in high winds, the floor diaphragms transfer the lateral forces to the shear walls that resist and absorb movement. But Framework will have an innovative core system: a so-called “rocking wall” made up of vertical CLT panels.

Instead of trying to prevent the panels from moving in a seismic event, the designers have placed post-tensioned cables down the center of the wall to allow the ends of the panels to rock up and then pull the wall back into position to “self-center.” According to Eric McDonnell, a structural engineer with KPFF in Portland, “With most traditional systems, like a concrete shear wall, the building won’t necessarily come back to level once the shaking stops.” LEVER principal Thomas Robinson adds that the team performed extensive testing with Oregon and Portland state universities to develop the resilient low-damage system.

Between the shear walls and the adjacent columns, the design team used a U-shaped flexural plate (UFP) that allows differential movement and absorbs energy. If the UFPs are damaged in an earthquake, they act like seismic “fuses” that can be replaced fairly easily, potentially saving costly repairs.

High-rise construction also has stringent fire-safety standards. Falling under the Type I-B noncombustible construction category, Framework’s mass-timber structural frame is required to have a two-hour fire rating. LEVER partnered with fire-prevention experts at ARUP to devise tests for the CLTs and the structure’s connection brackets. The team successfully tested the world’s first two-hour rated, fully loaded beam-column-floor assembly made of mass timber.

Although wood is very combustible on its surface, once a layer of char forms, it insulates and slows the burning process, according to McDonnell. Framework’s components—such as beams, columns, and floor plates—have been oversized to account for the extra depth of char while maintaining enough structural integrity to achieve the two-hour rating.

The USDA grant enabled LEVER and ARUP to subject loaded, full-scale mockups to combustion tests. According to ARUP fire-safety engineer David Barber, a major challenge was designing and testing the connectors, which needed to work aesthetically and structurally while standing up to the two-hour fire-rating requirement. Similar to what they did for the Albina Yard connectors, the team designed brackets that are totally encased by the wood structure, which makes them more fire-resistant.

The project has passed its life-safety tests and is currently in the final phase of permitting. Groundbreaking is slated for this fall. —MC
LEVER designed the building to an unusually tight tolerance of ⅛ inch. But the team wisely decided to construct the ground-floor structure before fabricating the rest of the frame in order to work out any glitches that might arise in the system. They found that they hadn’t accounted for the full depth of the fillet welds on column-to-beam connectors. “A little grinding to fit the beams was the only on-site correction we had to do,” says Robinson. The CNC software that cut the slots in the glulam elements for the connectors was adjusted to account for the welds, and the rest of the structure went up without a hitch.

Not only was the building erected easily but it also went up quickly. Each of the 4,000-square-foot CLT floor decks was installed in about four hours. With conventional methods, each level would have required up to a week, Robinson estimates. The construction method offered other benefits, including a quiet construction site and “just-in-time” material delivery, with the components arriving at the site immediately before they were ready to be installed. Such an approach is especially appropriate for projects in dense urban areas, where on-site storage and staging space is at a premium.

Although LEVER is currently working on a project that will rely on CLT for its structural core in addition to its superstructure (see sidebar, page 49), Albina Yard has a more conventional wood-frame core sheathed in plywood with hold-downs at each level. The core, along with the specially fabricated column-to-beam connectors, helps the building comply with seismic requirements. Fabricated in a local shop, the steel components are screwed to the columns but support the beams only with friction connections. They are embedded in the beam-ends with a saddle for the primary structure and a pin connection for the joist beams. The result is a seamless grid of glulam beams supported by hefty, square glulam columns—without a fastener in sight.

Mass timber is substantially lighter than concrete or steel-frame construction. In addition to smaller gravity loads, a lighter structure can reduce lateral loads, which in turn further decreases the demands on the foundation, according to Eric McDonnell, a structural engineer for the project with KPFF in Portland. He adds that while smaller loads can allow smaller foundations, in some cases they can also preclude the need for expensive piles or even allow for a taller structure. For Albina Yard, the foundation loads are between 40 percent and 60 percent less than if the superstructure had been steel or concrete, estimates McDonnell.

Mass timber has several ecological advantages over typical construction methods. The earth’s forests make up an enormous carbon sink that absorbs about 30 percent of global carbon dioxide emissions. When dry, one half of wood’s weight is made up of carbon, which it retains until it is burned or decomposes. According to European studies, one cubic meter of structural lumber can store about one metric ton of CO2. Also, mass timber is comprised of large-scale components that can be more easily disassembled and reused than those of many concrete and steel structures. Even standard stick framing, because of multiple fasteners and adhesives, is difficult to deconstruct intact.

When compared to a concrete structure, mass timber scores better across the board in terms of its impact on the environment. A 2012 study by the University of British Columbia’s Sustainable Building Science Program found that producing mass-timber structures generates less air pollution and toxic waste, requires less water, and embodies 18 percent less energy from nonrenewable sources than a concrete building does. Overall, concrete has two-and-a-half times the potential impact for global warming than mass timber, the study asserts.

Despite these sustainable attributes and the aesthetic warmth of mass-timber construction, Robinson hadn’t planned to build out the top floor for his firm. However, during construction, when several members of LEVER stood on the third-floor deck, they were surprised to see an unobstructed view of Mount Hood and decided it was an opportunity they couldn’t pass up. “This is an architectural practice,” Robinson says with a chuckle, “and it’s good to practice on your own space before designing for other people.”

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

---

**Continuing Education**

To earn one AIA learning unit (LU), including one hour of health, safety, and welfare (HSW) credit, read “Home Grown.” Review the supplemental material found at architecturalrecord.com, and complete the quiz at continuingeducation.bnpmedia.com or by using the Architectural Record CE Center app available in the iTunes Store. Upon passing the test, you will receive a certificate of completion, and your credit will be automatically reported to the AIA. Additional information regarding credit-reporting and continuing-education requirements can be found at continuingeducation.bnpmedia.com.

**Learning Objectives**

1. Define the term “mass timber” and explain what distinguishes it from other types of wood construction.
2. Describe the fire-resistant and structural properties of mass timber.
3. Outline the environmental attributes of mass-timber construction.
4. Describe the lateral load-resisting system planned for Portland, Oregon’s Framework building.

AIA/CES Course #K7106A.

FOR CEU CREDIT, READ “HOME GROWN” AND TAKE THE QUIZ AT CONTINUINGEDUCATION.BNPMEDIA.COM, OR USE OUR ARCHITECTURAL-RECORD-CONTINUING-EDUCATION APP AVAILABLE IN THE ITUNES STORE.
NeoCon 2017 Highlights the Office’s Changing Landscape

THE ANNUAL CONTRACT furnishings show in Chicago may include products suitable for various contract environments, but it is still chiefly a bellwether of workplace design. Well attended as ever in its 49th year, the event in the Merchandise Mart drew more than 56,000 attendees—a 7 percent increase over last year’s crowd and a significant swath of office-design influencers from both architecture and interior design firms.

What noteworthy trends did they see at NeoCon? Exhibitor offerings tended to skew toward residential crossover, marked by technology integration, acoustical privacy, and customization.

Daniel Stromborg, head of the product design practice at Gensler’s Los Angeles office, reaches for the industry shorthand frequently used to describe the tide change: resi-mercial. “I think we’ve moved away from futuristic-looking workspaces toward a hybrid of resi-mercial and timeless design,” he says.

Aaron Wong, a design director at the San Francisco office of IA Interior Architects, agrees, adding, “As work environments continue to blur the lines between home and office, many manufacturers have enhanced this trend with their combinations of furniture and textiles.”
Cozier seating and occasional tables, also well suited to the home, showed up in nearly every major showroom from Herman Miller and Knoll to Allsteel and HBF.

Increasingly, homey profiles disguise high-performing technical functions. For example, Gensler collaborated with crossover brand West Elm Workspace on its new Conduit system. Central to the design is a backbone that conceals and routes power and data to workstations whose upholstered panels visually screen and help dampen sound. Teknion launched a similar system that distributes power and data via a central framework called Expansion Cityline. Specifiers can “build” a variety of work zones along this beam system by selecting components ranging from benching desks and storage units to lounge seating.

Meanwhile, as designers continue to disrupt the open-plan by reintroducing privacy, manufacturers have responded with furniture, acoustical accessories, and screening products that perform the job of semipermanent wall systems at lower costs. “Everyone seems to be developing a pod for lounge or nook seating,” says Gisselle Amador, an associate designer at the Miami office of IA.

In fact, pods and high-back seating standouts included Davis Furniture’s Soft Privacy, HBF’s Sono Sofa, and Koleksiyon’s

IN THE (WORK) ZONE
Designers can build clusters of workstations, storage areas, mini lounges, and impromptu meeting spots around the central power spine of Expansion Cityline (top). Herman Miller’s Prospect (right) is a semiprivate solution customizable for individuals or team workspaces.
NEW CONFIGURE™

A CUSTOM RECYCLING SYSTEM
FOR ANY GUEST SPACE
LIKE AN OFFICE

DESIGN YOURS AT RUBBERMAIDCOMMERCIAL.COM/CONFIGURE

SELECT SIZE + SELECT LIDS + STREAMS + SELECT COLORS

©2017 BY RUBBERMAID COMMERCIAL PRODUCTS LLC 8900 NORTHPOINTE EXECUTIVE DRIVE, HUNTERSVILLE NC 28078
Boccaporto. While not a furnishings manufacturer, 3form also launched something in the acoustical enclosures category: Its Seeeyond Wall is a system of acoustic felt–covered modules with strong magnets that attach to one another, forming semiprivate enclosures. Meanwhile, Herman Miller’s Prospect line of semicircular freestanding systems—covered by acoustical fabric—can be customized for individuals or groups with desks, standing meeting tables, magnetic whiteboards or tackable finishes, and other components.

For fully enclosed, acoustically isolated spaces without walls, a freestanding phone booth is an option. One such product, which launched at NeoCon, was the debut offering from Jabrrbox, a company founded by former Studios Architecture associate Brian Hackathorn and entrepreneur Jeremy Jennings. Jabrrbox One is a complete work environment outfitted with Philips Hue LED lighting, power outlets, USB ports, and a ventilation system; Jabrrbox Chromebooth adds a 24-inch Google Chromebase for videoconferencing.

In the end, all trends underscore the idea that workers should have options. “We all want to see more manufacturers addressing the individual [and] their needs [for] flexibility and choice,” says Stromborg. “That’s not so much a trend as a need.” —Sheila Kim
REACH DECISION MAKERS & INFLUENCERS. GENERATE LEADS. PENETRATE NEW FIRMS. STRENGTHEN YOUR POSITION. INCREASE SALES.

SNAP Advertising Sales

New England and PA
Joseph Sosnowski
610-278-7829
Fax: 610-278-0936,
sosnowskij@bnpmedia.com

Southeast, Mid-Atlantic
Wesley Loon
859-414-3795
Fax: 248-502-9104
loonw@bnpmedia.com

Midwest (IA, IL, MN, MO, WI)
Bruce Smith
224-216-7836
smithb@bnpmedia.com

Midwest (IN, MI, OH), TX,
OK, Eastern Canada
Lisa Zurick
513-345-8210
Fax: 513-345-8250
zurickl@bnpmedia.com

West, Western Canada
Bill Madden
503-260-9679
Fax: 503-557-9002
bill@maddenandassociates.net

FL, KS, NE, ND, NY, SD,
International
Risa Serin
646-849-7130
Fax: 248-786-1393
serinr@bnpmedia.com

Production Manager
Kristen Carpenter
248-786-1222
Fax: 248-502-2051
carpenterk@bnpmedia.com

A

Accuride 57
Acoustical Surfaces 30, 57
Advanced Lifts Inc. 23, 56
ARCAT, Inc. 18
Aurora Storage Products, Inc. 56
Azon USA 13, 56

B

Bendheim Wall Systems 57

C

CENTRIA 9, 58
C. R. Laurence Co., Inc. 35

D

Dri-Design 15, 57
Easi-Set Industries 57
Epo Services Inc 27, 57

F

fiberC by Rieder CV4

G

Graham Architectural Products 56
Guardian Glass 8

I

Infinity Drain 57

J

Just Manufacturing 57

L

Laticrete International CV2

O

Overly Manufacturing Co 12

P

Petersen Aluminum Corp 7, 58
Precision Ladders 58

R

Raydoor 2, 56
Richards-Wilcox 56
Rubbermaid Commercial Products 52, 53

S

SAFTIFIRST 5
SAFTIFIRST O’Keefe’s Inc 34

T

Sage Glass 22
Swillis Doors 56
Seves Glass Block CV3
Simonswerk 17, 56
SNAP Construct Show 54
SNAP Learn And Earn 4

V

Vitro Architectural Glass
(Formerly PPG Glass) 19, 58

Walker Display 59
Wausau Tile 31
Wooster Products 58

SNAP Construct Show 54
SNAP Learn And Earn 4

Get a complimentary expo pass when you register with code:
ADCN1717 online at www.CONSTRUCTshow.com.

*Offer is non-transferrable and is valid for new registrants only.
No refunds or exchanges will be issued on previous registrations.

www.CONSTRUCTshow.com
A trend in combining acoustical privacy with more visually open office plans inspired C.R. Laurence, a manufacturer and supplier of architectural glazing, to introduce its Series 487-AR Double Glaze Office Partitions. They have an acoustical rating of up to 47 STC. (SNAP #233)

TABLE OF CONTENTS

**Doors, Windows**  
Page 56  
Doors, windows, storefronts, entrances, skylights, framing systems, glazed curtain walls, and translucent wall and roof assemblies.

**Equipment**  
Page 56  
A broad range of electrical and tech goods, among them audiovisual, multimedia, and control systems. Also covers elevators and appliances.

**Interior Finishes, Furnishings**  
Pages 56-57  
Products for finishing and furnishing building interiors, including flooring, wallcoverings, ceilings, furniture, shelving systems, and window treatments.

**Materials**  
Page 57  
Basic products used in construction, among them lumber, concrete, and masonry units. Includes paint, coatings, and structural materials and fittings.

**Mechanical Systems, HVAC, Plumbing**  
Page 57  
Products for conditioning, moving, holding, and controlling air, water, and other fluids. Examples include fans, ventilators, and boilers.

**Roofing, Siding, Thermal & Moisture Protection**  
Pages 57–58  
Goods for constructing the building envelope, such as exterior wall and roof panels, sheathing, thermal insulation, and waterproofing.

**Specialty Products**  
Page 58  
Products for special applications or that apply to more than one category, such as gates, ladders, columns, signage, awnings, canopies, and railing systems.
AZON SAVES ENERGY

GREEN

Azon

Structural thermal barrier technologies, energy efficiency and high strength for aluminum fenestration products.

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

Performance Data:
- Intelligent technologies reduce overall U-factor
- Higher CRF (Condensation Resistance Factor)

www.azonintl.com
800.788.5942
www.azonintl.com

TRANSFORM SPACE

WR | GREEN

Raydoor®

Sliding doors & walls that permit light into a room, while being a functional & flexible solution to divide interior space.

Product Application:
- Residential
- Hospitality
- Commercial

Performance Data:
- Fully customizable solutions for any application
- Lightweight, No Floor track & FSC certified

raydoor.com
212.431.0641 | info@raydoor.com

SIMULATED DOUBLE-HUNG, HURRICANE-RESISTANT WINDOW

WR

Graham Architectural Products

Fixed window with offset lites and a historic beveled sash design simulates the appearance of historic hung windows. Graham’s HIS1400 Offset is a hurricane impact-resistant version of this product.

Product Application:
- Protection in high velocity hurricane zones for historic and commercial applications
- Lower cost, more thermally efficient historic replication of original hung windows

Performance Data:
- Large and small missile impact protection
- ASTM 1886 and ASTM 1996 tested

www.grahamwindows.com
800.755.6274 | jeisenbeis@grahamwindows.com

HEAVY DUTY HINGE HARDWARE

$5

Richards-Wilcox Specialty Door Hardware

Traditional style center hinges for slide fold doors allow outdoor buildings doors to fold flush against the frame.

Product Application:
- Carriage Houses
- Garages
- Commercial Applications

Performance Data:
- Full Surface Strap Center Hinge with Traditional Styling
- Powder Coated in 8 Beautiful Colors
- Custom Design Support

www.rwhardware.com
800-253-5668, ext. 4679 | dlordon@richardswilcox.com

VARIANT ADJUSTABLE CONCEALED HINGE SYSTEMS

$55 I NEW

SIMONSWERK North America

The VARIANT series offers 3-way adjustable hinges for high frequency institutional, commercial & industrial applications. This European proven concept has been tailored for the North American market.

Product Application:
- Office Buildings
- Schools
- Hospitals
- Airports

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

LIFT-STRAP BIFOLD DOORS AND ONE-PIECE HYDRAULIC DESIGNER DOORS

WR

Schweiss Doors, Moving Walls

Schweiss Doors manufactures unique custom designer doors, one-piece hydraulic doors and patented lift-strap opening/closing bifold doors.

Product Application:
- Moving doors and walls
- You think it, we 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@bifold.com

SERIES 3000 DOCK LIFT- UPDATED & EXPANDED

Advance Lifts, Inc.

Advance Lifts Inc. the nations #1 dock lift builder has recently updated and expanded their 3000 series of pit mounted dock lifts.

Product Application:
- This newly expanded line brings lower lowered heights and a significant cost reduction to dock lifts with capacities between 8,000 and 20,000 pounds.

Performance Data:
- With the industry’s leading warranty and most complete lines of surface and pit mounted dock lifts, every dock needs and Advance Lift.

www.advancelifts.com
1.800.843.3525 | michaelr@advancelifts.com

TIMES-2 ROTARY CABINETS

$5

Aurora Storage Products, Inc.

Times-2, the modern, dual-sided alternative to lateral filing cabinets, stores more in a smaller footprint and can take the place of demountable walls and room dividers.

Product Application:
- Room Dividers
- Group Storage
- Personal effects, binders, and small electronics

Performance Data:
- Stores more in less space than lateral files
- 17 Unit Sizes, 35 Beautiful Eco-Friendly Colors

www.aurorastorage.com
800-253-5668, ext. 4520 | sniemiec@aurorastorage.com
**SLINK METAL™ ARCHITECTURAL CEILING & WALL PANELS**

Acoustical Surfaces, Inc.

The Silk Metal Architectural Ceiling & Wall Panel System is a state-of-the-art absorber that has an elegant smooth appearance while reducing sound reflections and echo.

- Residential, Commercial, Restaurants, Classrooms
- Pro Audio/ Studios, Swimming Pools, Conference Rooms
- Hospitals, Auditoriums, Airports, Train Stations, Concert Halls

Performance Data
- Excellent NRC Rating – 0.80 NRC (per ASTM C423) with a 4 inch Airspace, No Liner Needed

www.acousticalsurfaces.com
800.448.0121 | sales@acousticalsurfaces.com

**COMPLETE WATERPROOF SYSTEM FOR TILED SHOWERS**

USG Durock™ Brand Infinity Drain™ Shower System

One complete waterproof shower installation made easy. Pairs high-performance Durock™ Brand Shower System components with decorative linear drains from Infinity Drain.

Performance Data
- Easier and faster to install than traditional shower construction.
- Bonded waterproofing system with pre-sloped floor made for tile shower installations.

http://usgid.com
536.767.6986 | info@usgid.com

**ARCHITECTURAL PRECAST CONCRETE CLADDING PANELS**

Easi-Set Worldwide Licensed Precasters

SlenderWall is an Ultra Hi-Performance 30 lb/sf award winning architectural precast concrete with integral heavy-gauge steel-stud frame building envelope panel system. Wind-load tested to 226 mph.

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

Performance Data
- Factory-installed continuous closed-cell foam insulation - compliant with all IEC/ASHRE energy codes

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

**INNOVATIVE INTELLIGENT EXTERIORS**

Dri-Design

Dri-Design’s Metal Wall Panel system is a pressure equalized rain-screen system, with a unique and patented interlocking design, that is both advanced and sophisticated... made simple.

Product Application
- Mill Woods Library, Seniors and Multicultural Centre
- Edmonton, Alberta, Canada

Performance Data
- True Dry-joint rain-screen system
- Exceeds performance specifications of AAMA 508-07 and Dade County

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

**REDEFINING UNDERMOUNT SLIDES**

Accuride International, Inc.

Accuride’s 3160EC is an ADA-compliant, AWI- and BH-MA-certified soft-close undermount drawer slide for loads up to 300 lbs.

Product Application
- Corner Cabinetry
- Kitchen Islands
- Concealed Storage Compartments

Performance Data
- Load rating of 300 lbs.
- Supports drawers up to 60” wide

www.accuride.com

**E SERIES COMPOSITE WATERPROOFING SYSTEMS**

EPRO Services, Inc.

Redundant Field-Installed Composite Design combines multiple types of waterproofing into one system, thus creating the ability to meet a wide range of site conditions, performance goals, and budgets.

Product Application
- Underslab
- Blindside Shoring Walls
- Over Excavated Walls
- Podium Decks, Planters, & Green Roofs

Performance Data
- Resistant to Hydrostatic Conditions
- Extremely Effective Barrier to Methane Gas, and

www.eproinc.com
800.882.1896 | info@eproinc.com

**VENTILATED GLASS FACADE SYSTEMS**

Bendheim Wall Systems Inc.

These decorative glass cladding systems refresh buildings & offer durable moisture protection. Panels can be replaced without deglazing surrounding panels for fast installation & easy maintenance.

Product Application
- Ventilated facades
- Rainscreens
- Interior wall cladding & feature walls

Performance Data
- Rigorously tested in accordance with ASTM & AAMA
- Non-combustible

www.bendheim.com/professional/systems
800.221.7379

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

**MECHANICAL SYSTEMS, HVAC, PLUMBING**

**IN-SINK DRAIN SYSTEM**

SS | GREEN | NEW

Just Manufacturing

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

Product Application
- Commercial and residential applications

Performance Data
- Integral seamless sanitary drain system
- Heavy-gauge stainless strainer
- Shown with JGD-9000 single-handle kitchen faucet with pull-out spray

www.justmf.com/integra-drain
847.678.5150 | Specifier Services

**MATERIALS**

**MECHANICAL SYSTEMS, HVAC, PLUMBING**

**ECLIPSE**

**EDEFINING UNDERMOUNT SLIDES**

**REDEFINING UNDERMOUNT SLIDES**

**E SERIES COMPOSITE WATERPROOFING SYSTEMS**

**VENTILATED GLASS FACADE SYSTEMS**

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

**MECHANICAL SYSTEMS, HVAC, PLUMBING**

**IN-SINK DRAIN SYSTEM**

**E SERIES COMPOSITE WATERPROOFING SYSTEMS**

**VENTILATED GLASS FACADE SYSTEMS**

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

**MECHANICAL SYSTEMS, HVAC, PLUMBING**

**IN-SINK DRAIN SYSTEM**

**E SERIES COMPOSITE WATERPROOFING SYSTEMS**

**VENTILATED GLASS FACADE SYSTEMS**

**MECHANICAL SYSTEMS, HVAC, PLUMBING**

**IN-SINK DRAIN SYSTEM**

**E SERIES COMPOSITE WATERPROOFING SYSTEMS**

**VENTILATED GLASS FACADE SYSTEMS**

**MECHANICAL SYSTEMS, HVAC, PLUMBING**

**IN-SINK DRAIN SYSTEM**

**E SERIES COMPOSITE WATERPROOFING SYSTEMS**

**VENTILATED GLASS FACADE SYSTEMS**

**MECHANICAL SYSTEMS, HVAC, PLUMBING**

**IN-SINK DRAIN SYSTEM**
FORMAWALL® INSULATED METAL VERTICAL JOINT

CENTRIA’s Formawall® Insulated Metal Panel System is now enhanced with the Formawall Insulated Metal Vertical (IMV) Joint. By replacing traditional exposed gaskets at end joints with metal joinery, the Formawall IMV Joint provides the most advanced protection from air and water penetration and maximum thermal performance.

To learn more visit CENTRIaperformance.com/IMV or call 800.250.7897.
**NEW AND UPCOMING EXHIBITIONS**

**Sonic Arcade: Shaping Space with Sound**
**NEW YORK CITY**
**August 22, 2017–February 11, 2018**
This multimedia exhibition showcases immersive environments, interactive installations, and performing objects that explore the translation of sound into substance. Featuring AudioSwear, a jewelry line designed by Arjen Noordeman and Christie Wright, the exhibition studies how abstract auditory information can be transformed into sensory experiences. At the Museum of Arts and Design. Visit madmuseum.org.

**Chicago Architecture Biennial**
**CHICAGO**
**September 16, 2017–January 7, 2018**
The second edition of the Chicago Architecture Biennial features works by more than 141 architects and designers that fall under the theme “Make New History.” Consisting of six community anchor exhibitions, two special project sites, installations, performances, talks, and films, the Biennial is a citywide event that encourages visitors to explore Chicago with an architectural eye. Visit chicagobuildingbiennial.org.

**Found in Translation: Design in California and Mexico, 1915–85**
**LOS ANGELES**
**September 17, 2017–April 1, 2018**
This exhibition accompanies a book about design dialogues between California and Mexico. The show will focus on four main themes—Spanish colonial inspiration, pre-Hispanic revivals, folk art and craft traditions, and modernism—and explore how modern and antimonad design movements defined both locales throughout the 20th century. At the Los Angeles County Museum of Art. For more information, visit lacma.org.

**ONGOING EXHIBITIONS**

**Zaha Hadid Architects: Unbuilt**
**LONDON**
**Through August 18, 2017**
This exhibition features unrealized designs by Zaha Hadid Architects that demonstrate the firm’s drive for innovation and experimentation. Developed collaboratively with engineers and special consultants, the designs showcase the holistic approach that the practice employs to bring its nature-inspired designs to life. At the Zaha Hadid Gallery. Visit londonfestivalofarchitecture.org.

**Timber City**
**WASHINGTON, D.C.**
**Through September 10, 2017**
This exhibition explores the latest methods of timber construction, which have led to strong, fire-resistant, and sustainable interpretations of the allegedly antiquated material. Curated and designed by the founding partners of the Boston-based architectural-design firm ltd, the exhibition highlights several U.S.-based projects that show case innovative timber technology. At the National Building Museum. For more information, visit nbm.org.

**Noguchi’s Playscapes**
**SAN FRANCISCO**
**Through November 26, 2017**
This exhibition, organized by the Museum Tamayo for the San Francisco Museum of Modern Art, will revisit artist Isamu Noguchi’s designs for several playgrounds and stand-alone play structures. Observing that playgrounds offer a physical and social interaction not typically seen in museums, Noguchi designed public spaces in which visitors could physically and actively engage with art. Through models, sketches, set designs, and archival images, the exhibition shows Noguchi’s visions for new experiences of art, education, and humanity through play. For more information, visit sfmoma.org.

**LECTURES, CONFERENCES, AND SYMPOSIA**

**IDSA International Design Conference 2017: Design Is Business**
**ATLANTA**
**August 16–19, 2017**
Industrial design strives to improve mass-manufactured products through design. Whether the topic be digitalization, electrification, autonomy, or connectivity, industrial designers attempt to surmount barriers, leveraging them as elements. This conference, which formally brings the strategic advantage of industrial design into the business world, will feature speakers who sit at the intersection of design and business. At the Atlanta Marriott Marquis. Visit idsa.org.

**Advancing Computational Building**
**SAN FRANCISCO**
**August 28–30, 2017**
This conference will teach attendees how to set up a computation team, train a nontechnical staff, and integrate computation into the traditional workflow. Visitors will gain guidance on how to apply computational design in the most advanced and efficient ways possible. At the Sheraton Fisherman’s Wharf Hotel. Visit advancing-computational-design.com.

**COMPETITIONS**

**Planetarium: The Experience of Space**
**Submission deadline: August 11, 2017**
eleven magazine’s latest challenge invites those working in creative fields, in any country, to imagine a new typology of planetariums, one that reflects today’s renewed interest in space as well as an emerging understanding of our world. Visit eleven-magazine.com.

**Future House: Micro House**
**Submission deadline: August 15, 2017**
Organized by Future House, this competition seeks a design for a microhouse with a floor plan no larger than 500 square feet. The house need not have a specific site location; participants may customize landscape design and site planning to their house. For more information, visit future-house.org.

**Showing—Alternative Designs for Museums**
**Submission deadline: August 28, 2017**
This competition aims to develop a design proposal for new ways to experience the museum. Participants are urged to combine design tools and considerable programmatic innovation to conceptualize an unconventional device, piece of furniture, interior design project, pavilion, building, or urban plan. For more information, visit nonarchitecture.eu.

**Duravit Designer Dream Bath Competition**
**Submission deadline: September 8, 2017**
For its fifth year, this competition invites designers and architects to reimagine their own bathrooms to feature a range of Duravit’s top collections and design solutions. The competition also features a Built category, for which designers and architects may submit their completed residential, commercial, small-space, or hospitality projects featuring any Duravit products. For more information, visit duravit.us.

**AIANY COTE Awards**
**Submission deadline: September 15, 2017**
The AIA New York Committee on the Environment established the AIANY COTE Awards in 2014 with the goal of redefining how design excellence is evaluated, sharing new thinking and techniques, and inspiring creative thinking about design. This year’s awards will recognize achievement in designing results-oriented buildings in the urban context. Visit aianycoawards.org.

**Beyond the Wall: A Manifesto for the Upcoming World**
**Submission deadline: September 15, 2017**
This competition asks candidates to select an existing border, wall, or boundary and design a solution to reactivates the intensity of the space. A total of five scholarships will be awarded, each covering a different percentage of the total tuition fee of the master’s program in Urban Vision & Architectural Design of Domus Academy. For more information, visit competition.domusacademy.com.

**Amber Road Trekking Cabins**
**Registration deadline: September 27, 2017**
The Amber Road Trekking Cabins architecture competition, in partnership with the Latvia Nature Conservation Agency, is calling for designs for a series of cabins to be situated along a new hiking path that will span the full length of Latvia. The Amber Road path will run along the Baltic Sea beaches, allowing hikers to traverse the entire country. Visit amberroadtrekkingcabins.beetbreeders.com.

Life’s all about change.

Walker Display helps you design an efficient system for exhibiting artwork anywhere. The functional no-nails design works on all wall surfaces, allowing creativity and easy rearrangement of artwork.
WHILE OFFICE CHAIRS are de rigueur for Vitra, they were uncharted territory for Edward Barber and Jay Osgerby in 2008. The British designers’ previous collaborations had been with luxury home brands B&B Italia, Flos, and Louis Vuitton. Then the Swiss furniture giant challenged the duo to create a new archetype for school furniture; they delivered with Tip Ton, a desk chair with a fun, minimalist plastic frame and an ergonomic forward-tilt, which remains a company top seller. “After the success of Tip Ton, Vitra wanted to see what we could do with a more complex chair,” says Barber. So the pair entered the world of contract office seating.

“At first, it was difficult to wrap our heads around this typology,” Barber admits. But after months of industry research, he adds, the two grew confident that a pared-down aesthetic worked better than one with “all these exposed mechanisms and controls.”

A studio hallmark is to create drawings that boil a design down to its essential parts. Hundreds of sketches later, they came up with a task chair that Osgerby says “you wouldn’t mind using for your home.” The Pacific chair, officially launched at June’s NeoCon, has an elongated backrest that extends past the seat pan, obscuring the levers and projecting a sleek silhouette. The chair automatically adjusts to a user’s weight and comes in unconventional office colors such as pink and purple. Specifiers can even order a version with fixed armrests instead of the usual adjustable ones. That attention to adaptability is what has Vitra scheduling future collaborations with the pair. “It’s not all about this particular office chair; it’s part of a system that will be continually developed,” says Vitra’s chief design officer Eckart Maise. “We’re already working on the next project together.” (SNAP #270)
THE 3D COLLECTION - DORIC

SPECTACULAR VISUAL TEXTURES AND DRAMATIC PATTERNS

Doric glass blocks explore the realms of dimensionality with a unique 3D glass surface, inspired by the famous Hellenic columns of ancient Greek temples. This collection unites classic and modern styles into one exclusive design element, ideal for creating dramatic linear patterns and optical illusions that play upon the depths of space. Perfect for commercial and residential buildings, there are a million ways to WOW with this one of a kind 3D glass design.
öko skin - neither painting nor staining
| sustainable glassfibre reinforced concrete
| non-combustible (ASTM fire rating) and maintenance free
| natural and durable material, authentic appearance
| various colours, vivid surface

Distributed by Rieder North America
1-877-740-0303 (toll free) | usa@rieder.cc | www.rieder.cc

SNAP 31