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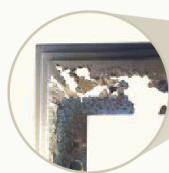
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Chicago Architect, the primary outreach tool of AIA Chicago, is published six times a year as an authoritative resource for architects, the larger design community and the public about architecture and related issues of interest to Chicago architects. The magazine communicates industry trends, the value of high-quality design and the role of AIA Chicago and its members in the world of architecture.

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Photo by Marc Hauser 2012



Material Evidence:

The magazine you hold in your hand (or view digitally) is just one manifestation of the value AIA Chicago membership brings to you and the 3,000 or so of us who engage in the art and practice of architecture in this city. This particular issue is a first for us: a special, extra edition of *Chicago Architect* dedicated to the resources with which each of us crafts places

and spaces for families, corporations and cities, in neighborhoods nearby and in countries around the globe.

To generate relevant perspective for this issue, AIA Chicago members participated in roundtable sessions to discuss good practices and trends and to reflect on recent experiences. The thought leadership evident and woven throughout this magazine is evidence of our collective community, generosity and ingenuity; materials are core to all of our work.

As president, my awareness of our commitment to our craft is magnified. I have sat in the conference room at AIA Chicago with the Small Projects Group (products meeting Passive House standards was one topic of conversation) and seen how this knowledge community leverages the brain trust of many small firms to mimic the voice of several large firms. I have seen the Large Firm Roundtable called into action by Yale professor Phillip Bernstein, FAIA, to forge leadership utilizing building information modeling (BIM) technologies. A specific program series has even dedicated itself to cementing BIM as an incredible commodity for architects and our clients. With dozens of other Chicago architects, we have spoken face-to-face with elected officials in Springfield, and with Senators Dick Durbin and Mark Kirk in Washington, D.C., about issues pertinent to the profession. One of the topics of conversation is the extension of and improvement to the Energy Efficient Commercial Building Tax Deduction (179D), incentivizing energy improvements to buildings and reducing energy costs.

Such programs and initiatives are strategic moves taken by architects for architects as a grassroots volunteer effort alongside an agile, insightful staff. When we do this together, we have an incredible voice. In print, *Chicago Architect* amplifies and preserves the vital issues we shape. This issue shares knowledge and anticipates trends that may form our future designed environment. The conversation happens in dozens of programs each month at AIA Chicago, and even more frequently via Facebook posts and via the @AIAChicago Twitter feed. Watch for other significant developments that communicate the value of architects, architecture and AIA Chicago to the broadest audience in the coming months.

We are AIA Chicago. We build, we teach, we learn and we are cool (we must be, we are on Facebook).

Peter Exley, FAIA

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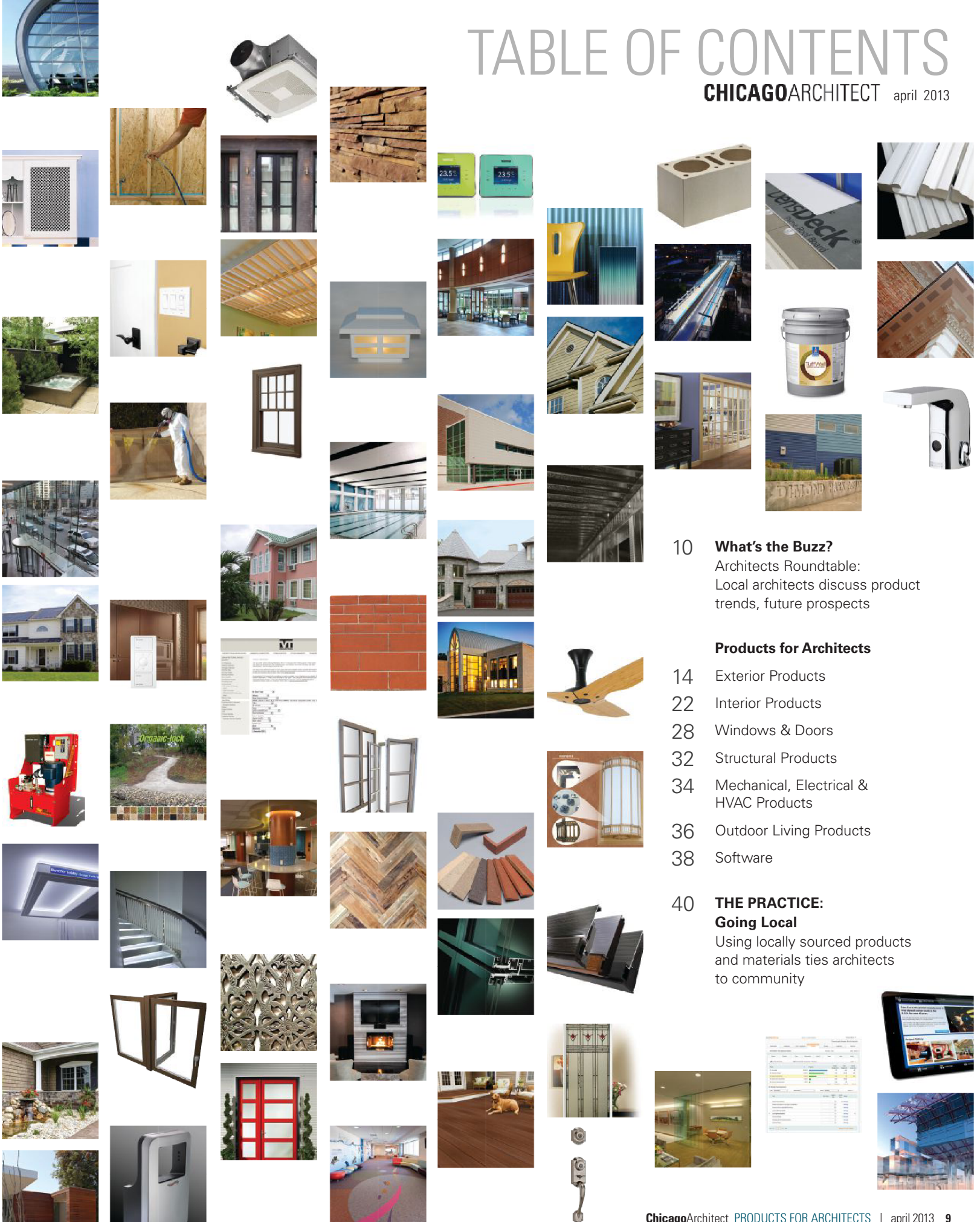


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WHAT'S **THE BUZZ?**

LOCAL ARCHITECTS DISCUSS PRODUCT TRENDS, FUTURE PROSPECTS

By Jeff Zagoudis



Dave Dankert, AIA



Renee Doktorczyk, FAIA



Drew Roskos, AIA



Jason Smith, AIA

ANY ARCHITECTURAL PROJECT IS ONLY AS GOOD AS THE SUM OF ITS PARTS. When the time comes for the design to move beyond the page, choosing the right materials and pieces is critical for success. Trends are always changing, however, especially now, as ideas such as energy efficiency and sustainability continue to gain traction across numerous industries.

Chicago Architect reached out to a panel of local architects (and one specifier) to see what's popular right now, what drives these trends and where they may be headed in the future:



WHAT ARE SOME GENERAL PRODUCT TRENDS YOU'RE SEEING RIGHT NOW?

Drew Roskos, AIA, LEED AP, IA Interior Architects: One thing that's more manufacturer-driven is collaborative media conferencing—the kind of collaborative space where four people can hook up to a monitor. I know that's been around for years, but I think manufacturers are all getting onboard and they're all trying to show how well and how clean they can do it.

We're proposing it. Some clients are using it. The AV and the video conferencing is a bit of a premium, so if they have a conference center, that might be the one room that does that.

One area where I've noticed products trying to be smarter is



shading devices at the building perimeter. We've had a lot of advertising coming our way outlining what's available in terms of solar shading and how it's become more sophisticated and simpler for the end user. The sensors are easier to control and they're better at receiving data.

Jason Smith, AIA, *SmithGroupJJR*: I think there're a lot of people out there who want to do something custom, and I feel like we're seeing more and more manufacturers who are finding ways to cater to that without blowing a budget. I'm working on a project now, for instance, where we have some exterior sun shades. We worked very hard and eventually found a few manufacturers who work with computer numerical control (CNC) machines; so instead of working with presses—where you have to do a stamp on it, or someone has to sit there and cut it and then file the edge—this is essentially a giant laser cutter for aluminum. It's a way to produce something custom.

Renee Doktorczyk, FAIA, CCS, CSI, SCIP, *Architech Consulting Inc.*: I would say, in general broad strokes, I'm seeing trends toward products that address the exterior envelope, especially products that are more energy efficient in design and products that control moisture. Everybody's really focused on that exterior envelope.

Everybody's really conscious about air barriers and making sure we're not having any miscellaneous air leakage going through the system, so they're getting better-performing walls—both for air performance and also beefing up the R values.

For instance, instead of using a standard gypboard on the exterior wall, I'm specifying mold- and moisture-resistant gypboard for that exterior wall because that product's been tested to not promote mold growth.

What I'm also finding is rain screens are coming back. It's funny because this was out there about 20 years ago and didn't really go anywhere. Now I probably am spec'ing rain screens on 1 out of 5 projects if not more. Part of that is being driven by the energy codes because we're trying to get the insulation outboard of the shell, and rain screens are an easy way to do that. And it helps control the air infiltration and moisture going into the building.



HOW IS THE FOCUS ON ENERGY EFFICIENCY AND SUSTAINABILITY AFFECTING PRODUCT TRENDS?

Dave Dankert, AIA, *Serena Sturm Architects*: We're always trying to look for energy-efficient systems and working with our engineers on their behalf. We always try to design to the LEED standard, whether the project is going to be submitted to LEED or not.

Around the office, it seems like we've had a lot of manufacturers bringing in LED lighting. Obviously the energy efficiency is a big draw, and long life, so there isn't a need to go and replace lamps with great frequency. Some manufacturers are emphasizing better color rendition. There's been some question in the past with LED lighting whether color rendition is on par with other lights we already use.

For a few years, there's been an increase in using geothermal loops for heating and cooling systems and heat pumps. Variable refrigerant flow (VRF) is an alternative to variable air volume (VAV) systems or HVAC units that go up in the ceiling. We've used those on a few projects.

On the materials side, we're always looking for things that have recycled content or low embodied energy in their production, or are locally sourced. We're seeing more ceramic tile with recycled content than we used to. More manufacturers are apparently incorporating those things.

Roskos: The main product that we're excited about is LED general lighting. It's almost affordable, but not quite yet. I think select clients are choosing to invest in it even though the return on investment might not be quite there yet because they want it to be part of their sustainable story. So they might try one project and do general lighting throughout or try one space. But the goal would be to replace the general lighting 2x4s of an office space.

"WE ALWAYS TRY TO DESIGN TO THE LEED STANDARD, WHETHER THE PROJECT IS GOING TO BE SUBMITTED TO LEED OR NOT."

- DAVE DANKERT

Doktorczyk: The Chicago area is unique in terms of environmentally responsible construction because of the landscape ordinance we have [requiring 50 percent minimum green roofing on new commercial construction]. We are probably the No. 1 part of the country specifying green roof construction, which, in the broadest sense, is putting landscaping on the rooftop for the purpose of reducing your heat island effect and reducing the amount of water that hits the ground and hard surfaces. So what you're doing is on top of your structure—regardless if it's concrete or metal deck—you're putting what is, in essence, a waterproofing layer on top of that deck and waterproofing that whole assembly.

One of the biggest things I'm finding in addition to green roofs is that people are spec'ing electronic vector field mapping. They're putting a layer of conductive material within this assembly so that if there is a leak, it's easier to find. That's something my owners and clients are going for because it's really pennies on the square foot that you're adding to the cost of the building, but it's reducing the number of man-hours it takes to actually find a leak within the system.

Smith: The technology behind glass is always getting more and more performance-driven. There are types of glass you can get now that boast they have thermal properties as good as or better than a traditional brick wall; there are coatings on it to keep it cool while the heat stays in. There are films they're putting in between the



glass layers to really get more of these benefits. There are even things like triple glazing, which you don't see a lot of because it's very heavy. There are all these different technologies out there, and each brings its own little piece, but it's all driving up the performance value, which is really cool.



WHAT ABOUT TRENDS IN MATERIALS?

Roskos: There are a few materials that are popular now. Large-format tile is being pushed by the manufacturers and we're really excited about it as architects because it's a thin tile that can come in sheets as large as 5x10.

In carpet tiles, there's a trend in the ombra or gradient tiles, which help transition a space cost effectively. It gives an added element of transition without having to have hard lines and a monolithic look in the carpet. Basically, it's the transition of a color within the tile, so you can start on one end of the tile with one color and by the end of the tile you have a separate color. We've been using them along office fronts or in transition points in office layouts.

A lot of manufacturers are also adding felt to their product lines in all types of applications; they're adding it as area rugs or on the wall for acoustic properties or as blinds. It has limitless application but it adds tackable surface, acoustic properties and a pop of color as well.

"IT'S NOT EASY, BUT I THINK PART OF OUR JOB AS ARCHITECTS IS TO EDUCATE CLIENTS, AND PART OF IT IS TO DO THE RIGHT THING REGARDLESS OF THE CLIENT." - JASON SMITH

Jason Smith: There's also solid surface material. A lot of times it's used in place of stone. The cool thing is it can be formed, so you see some guys will bend it over corners or they'll actually vacuum-form it around a three-dimensional object that's usually either created with 3-D CNC equipment or something along those lines. It can be used for exteriors, but oftentimes that's something you'd do a feature wall in the interior space with or even a desk.



WHAT ARE SOME OF THE FACTORS DRIVING THESE PRODUCT TRENDS?

Dankert: In the last half of last year, the question of water efficiency came up. I'd say it's mostly on the fixtures side—faucets and toilets and that kind of thing. We're looking at whether those fixtures meet the EPA WaterSense label for efficiency. It hasn't necessarily trickled through to a whole-building system yet. You can also increase LEED points if you can get to the next level of water efficiency.

Roskos: I think that the manufacturers have a good start on the innovation of products, and that the changes to the codes and guidelines that we as architects are trying to strive for are starting to take a larger lead in that; then clients are listening to us tell the story and responding to it.



HOW WILL NEW CODES AND PLANS (E.G., THE ILLINOIS ENERGY CONSERVATION CODE 2012, THE 2015 SUSTAINABLE CHICAGO PLAN) IMPACT PRODUCT SELECTION/SPECIFICATION?

Roskos: I think in the short term—the next couple years—the IECC and the 2015 Sustainable Chicago Plan are going to affect light specification, and they require a reduction in emissions. So I think the ones that stand to gain from that are energy-efficient appliances and products. Then in the long term, the AIA 2030 initiative creates a very realistic timeline and goal because basically it's going to be testing and reporting on these products.

Dankert: I'd say that it's probably going to push specifications and things that might have been a second choice previously—maybe because of a slightly higher initial cost—but I think there are probably some systems that won't even be looked at that much anymore because it'll be too hard to meet code in the future.

The energy codes affect us on things like selecting what glass to use in our windows. I guess that's another side of it: For insulation and glass, it'll raise the minimum for what needs to be specified on a project. We usually try to go above the minimum anyway.

LED lighting is another example. It will probably end up replacing a lot of incandescent lighting and other things we might be using now.

Smith: I think the performance of all of our materials is going to be huge, especially in a climate like ours. I think as architects and designers, we have a responsibility to not forget the historic, proven, passive ways of heating and cooling buildings. I think the designers who are successful will be the ones who think about performance and the expression of performance in their buildings as paramount.

Honestly, we need the energy codes and standards to drive innovation because without them being continually updated and adopted, we won't be able to reach our mark.

Doktorczyk: Short-term, I think there's going to be a lot of confusion. There are constantly new products that I get hit with; however, the problem is we don't have any history with them. Most of the specifiers I know like the five-year, prove-it-to-me scenario, and we're not getting that right now because the products are changing so fast.

Paint products and VOC requirements are a great example. I can write a spec today, and by the time the building's constructed and they're ready to throw paint on the walls in 18 months to two years, my paint spec will be completely out of date because that's how fast the materials are changing.

CONTINUED ON PAGE 42...

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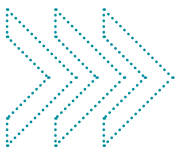
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4



4 Belden Brick Structural Brick

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beldenbrick.com

5 CalStar Thru-Wall Unit

CalStar's Thru-Wall Unit combines the structural properties of standard concrete block with the preferred aesthetic of a traditional brick wall. With nominal sizes of 8 inches x 4 inches x 16 inches and 12 inches x 4 inches x 16 inches, the Thru-Wall Unit is half as tall as standard concrete blocks for an authentic brick look and structural use. The dual-sided unit features both a flat face for a classic, 16-inch appearance and a notched face to fill with mortar for the look of 8-inch bricks.

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3 Boral Stone Products

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6 CertainTeed Apollo Solar Roofing System

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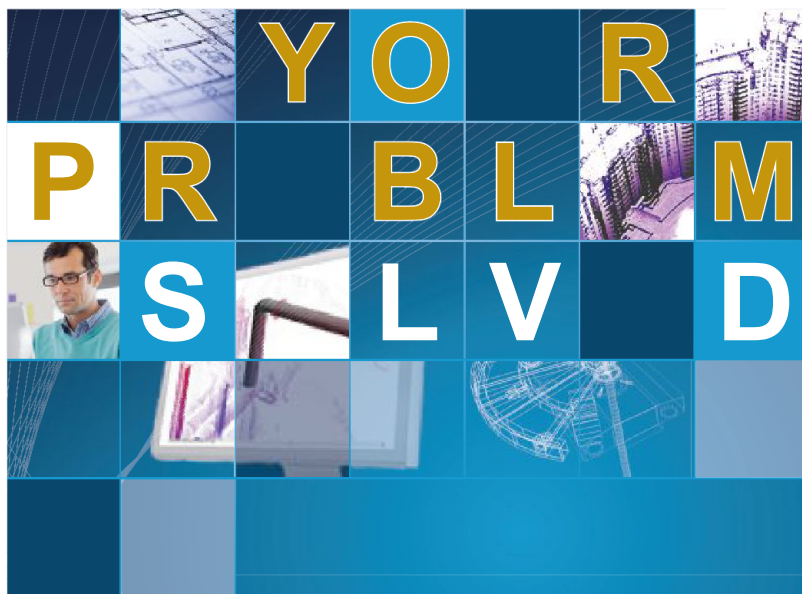
ARCHITECTURAL WOODWORK

3670 Woodhead Dr., Northbrook, IL 60062

Tel 847.291.1040

www.bernhardwoodwork.com

Benida, Chicago, IL



5 stories

18 recessed windows of varying sizes

2 separate documents claiming to be as-builts

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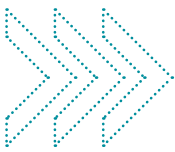
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PRODUCTS FOR ARCHITECTS

exterior

8



7

7 InSpire Slate Cool Roofing

InSpire Slate cool roofing uses advanced pigment technology to provide high solar reflectance. Nine colors—from traditional Granite, Evergreen and Mountain Plum to innovative shades like Red Cedar and Sand—can potentially lower a roof's surface temperature by reflecting sunlight and re-radiating heat away from the roof. This reduces the heat transferred into a home or building and cuts peak cooling demand by up to 15 percent. inspireroofing.com

9



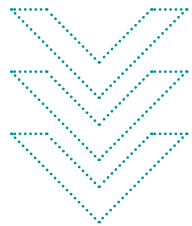
8 Nichiha Fiber Cement Cladding

Nichiha's fiber cement cladding solutions capture the look of metal, brick, stone, block and cedar. There are more than 40 styles and textures to choose from. Panel systems install 9 square

feet at a time via a clip system to provide an air gap between the panels and the substrate. The high-performance panels protect buildings against rotting, warping, pests or delamination. Other features and benefits include: low on-the-wall cost; contribution toward LEED credits; modified rain-screen; superior durability; and a 50-year limited warranty. nichiha.com

9 Outwater American Pro-Vinyl Exterior Mouldings

Outwater's American Pro-Vinyl Exterior Mouldings line comes in a broad selection of profiles, styles and sizes that can transform unembellished houses into stylish, beautiful homes. The line of U.S.-manufactured mouldings is ready to install, provide dimensional stability and have greater



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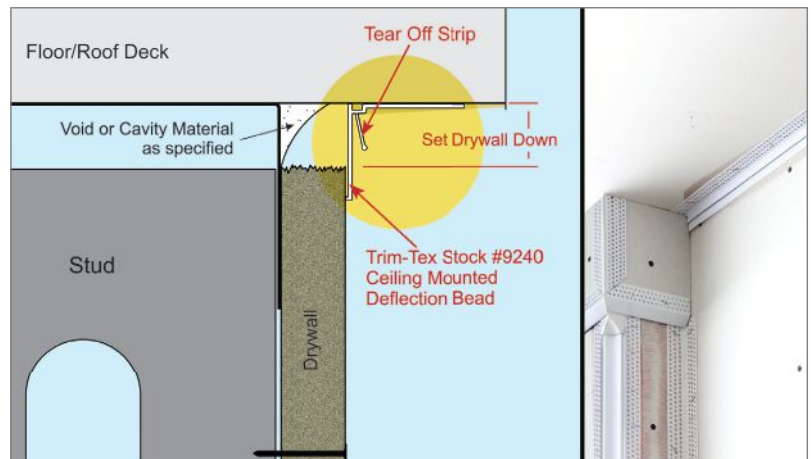
FEATURED PRODUCT

Prevent Ceiling Cracks Due to Deflection

Beautifully designed buildings deserve the finest details. Unfortunately multi story buildings with concrete decks are prone to deflection caused by loading and concrete sag. Deflection results in unsightly cracks along the inside corners where the wall meets the ceiling.

Ceiling Mounted Deflection Bead is mounted to the roof deck and has a 1" leg that hangs down to cover the up to a 3/4" gap, left between the drywall and the concrete deck. Since it is only attached to the deck, the Ceiling Mounted Deflection Bead slides up and down on the wall. It leaves a sharp crisp shadow line along the length of the wall. The Ceiling Mounted Deflection Bead is a permanent fix to deflection reducing your building maintenance costs.

Trim-Tex is the premier manufacturer of rigid vinyl corner beads with over 200 shapes in 600 styles and lengths. Trim-Tex develops solutions that exceed your specification and construction needs.



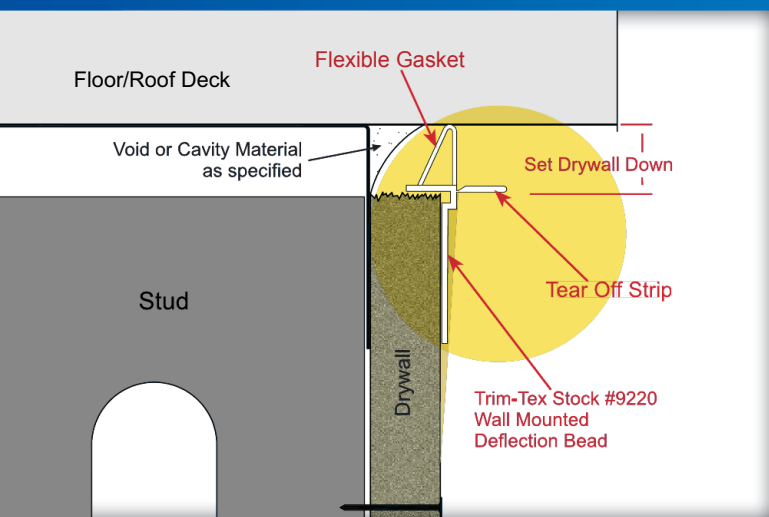
www.trim-tex.com

Beautiful Buildings Deserve the Finest Details

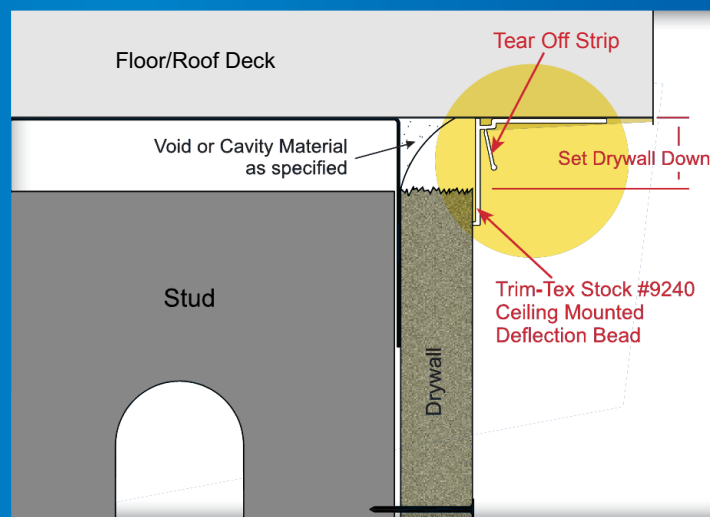
That starts with preventing unsightly ceiling cracks



Wall Mounted Deflection Bead



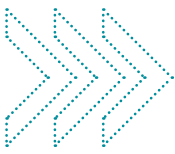
Ceiling Mounted Deflection Bead



Trim-Tex offers two innovative new products that prevent unsightly inside corner ceiling cracking. Ceiling Mounted Deflection Bead is mounted to the roof deck allowing the bead to slide up and down the wall during structural deflection, while retaining a 90° crack free inside corner. Wall Mounted Deflection Bead features a co-extruded flexible gasket that compresses or expands with ceiling deflection, eliminating inside corner cracks.



Available on the
App Store
For iPad Only



11



10

insulation properties than wood or cement exterior mouldings. Comprising UV-stabilized cellular PVC, American Pro-Vinyl Exterior Mouldings are available in bright white 16-foot lengths and can be easily cut for shipping. **outwater.com**

10 LP SmartSide Trim and Siding

LP SmartSide trim and siding gives any project the warm, natural look of real cedar and the toughness of engineered wood. All products are treated with LP's proprietary SmartGuard manufacturing process, which helps resist rot, fungi, termite damage, cupping and warping. Superior exterior-grade resins increase resistance to cracking, denting or breaking. Siding profiles are available in cedar wood grain or smooth textures. SmartSide products serve as perfect accents to brick, stone or stucco. **lpcorp.com**

11 Versatex Soffit System

Versatex Trimboard has developed a complete, low-maintenance, high-architectural-appeal soffit system, coupled with notched fascia and frieze boards. This system is the first of its kind in cellular PVC. The Soffit System is available in 12-inch and 16-inch widths and lengths of 18 feet to reduce joints. The vented soffit has a series of 1/8-inch-wide grooves specially designed to minimize insect infiltration. The venting pattern features 10 square inches of free air space per lineal foot, making it an effective airflow system.

versatex.com

12 Syntheon ACCEL-E Wall Panels

The ACCEL-E steel thermal efficient panel (STEP)

wall system is the result of a proprietary manufacturing process that combines the strength and performance of cold-formed steel framing with the superior insulation properties of expanded polystyrene. This fusion process creates a composite panel with both high performance and thermal efficiency for the building envelope. The system combines framing, cavity insulation and continuous rigid foam insulation in an easy installation process. **syntheoninc.com**

13 DensDeck Prime Roof Boards

Prime Roof Boards, part of the DensDeck family of gypsum roof boards from Georgia-Pacific Gypsum, offer superior fire resistance, strength and dimensional stability and can be used in hot mopped, cold mastic; torch-applied modified bitumen roofs; as well as fully adhered, single-ply and self-adhered "peel and stick" roofing systems. They are compatible with low rise foams and low-VOC adhesives, enabling them to work in almost any roofing system.

densdeck.com

14 Viracon ClearPoint

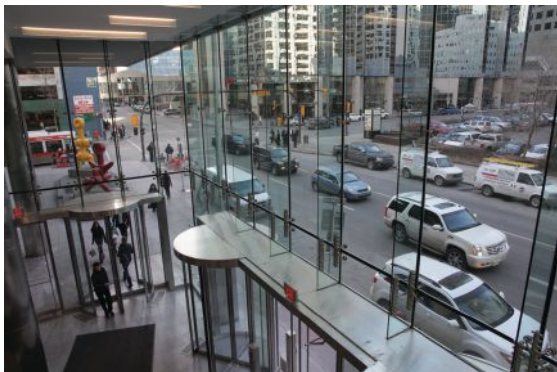
A point-supported insulating glass system that increases the transparency of glass façades, ClearPoint was specifically engineered to provide building designers with greater flexibility. ClearPoint allows architects to maximize sight lines and enhance aesthetics, delivering a clean, contemporary look both inside and out. It reduces the amount of framing material making contact with the glass, providing a more elegant result for building interiors and exteriors. **viracon.com**

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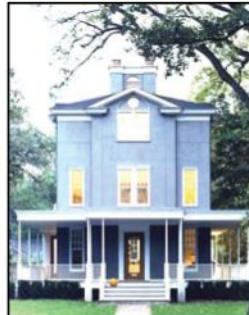
14



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Pilkington **OptiView™** low reflective glass

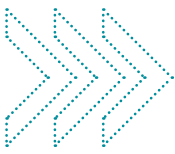
With Pilkington **Optiwhite™** and
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Whatever you have in mind for your next ambitious project, you should have our Special Applications Glass in mind too. Pilkington **Optiwhite™** is our extra clear, low-iron float glass. It is virtually colorless and has excellent light transmission, making it the ideal choice for applications where glass edges are visible or where transparency and purity of color are desired. Pilkington **OptiView™** has low-reflective and UV blocking properties which make it perfect for any display, showroom or storefront applications.

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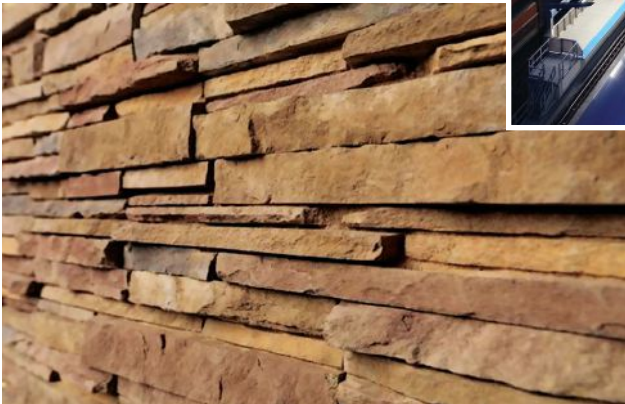
NSG
GROUP

 **PILKINGTON**



16

17



15

15 Duo-Gard Architectural Canopies

The new Chicago Transit Authority (CTA) Morgan Street Station features two long, translucent canopies that protect riders from the weather, admit diffused sunlight by day and serve as an illuminated landmark by night. The canopies are more than 320 feet long; aluminum framing and multiwall polycarbonate glazing are combined in a standing-seam configuration. Lighter in weight than glass, polycarbonate reduces the need for structural support and allows for easy repair when needed.

duo-gard.com

16 Petersen Tite-Loc Metal Panels

Tite-Loc standing seam architectural metal panels from Petersen were recently used in the arched metal roof of the new headquarters of the Scottish Rite fraternal organization in suburban Bloomingdale. The panels are mechanically seamed in the field after installation to a 90-degree lock; they were

curved on-site and installed by Anthony Roofing Tecta America of Aurora.

pac-clad.com

17 Ply Gem Stone True Stack

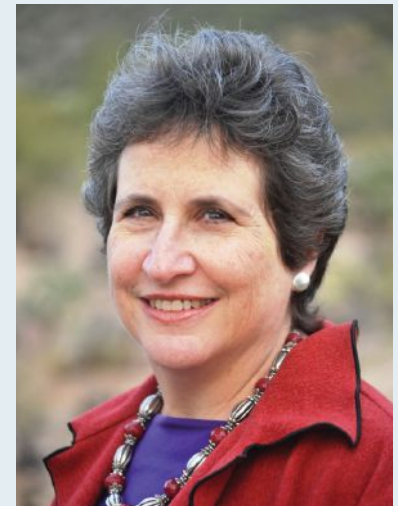
Ply Gem Stone's True Stack allows for clean and simple installation, ideal for those looking for a time-saving solution that achieves a detailed stacked-stone look. The slender, horizontal shapes are available in 9-, 13-, and 18-inch-long panels with matching corner stones to create rustic stacked-stone walls for both exterior and interior applications. The back of the stone pieces features a 1/4-inch groove around all sides, creating a gap for mortar to fill.

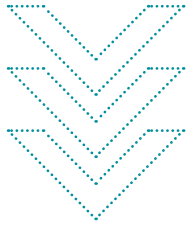
stone.plygem.com

LESSONS LEARNED: GREEN ROOFING

Since my work focuses on green building, I consider roofing products from the point of view of sustainability. For instance, there are many reasons why a vegetated green roof may be a good idea, such as reducing the effect of the urban heat island, reducing stormwater runoff and improving acoustics, to name a few. For those who cannot use a vegetated roof, it is also a good idea to use white coatings or white membranes with high reflectivity and low emissivity. White roofs will reduce the effect of the urban heat island and have a small energy benefit for roofs with good insulation.

Helen Kessler, HJKessler Associates





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Schweiss 'Designer' doors are dressing up the neighborhood

Schweiss Designer Doors have for many years been the leader in the hydraulic and lift-strap bifold door industry. Their quality and attention to detail and innovative applications are unsurpassed — making Schweiss Doors America's top resource for specialty doors with a plethora of options.

If you are looking for a large or small one-piece hydraulic or bifold designer door, Schweiss Doors can build it. Your ideas can go anywhere from mild to wild, from concept to reality. We like to say "If You Think It; We Build It." And if you can't fully think it, Schweiss Doors can give you many ideas or suggestions to have the designer door of your dreams come to life, ranging from residential, commercial to corporate.

All Schweiss doors are custom built, so you won't have to design your structure around the door. Whether you design a traditional or modern, unique structure, our doors will fit your building as if they were part of the original design.



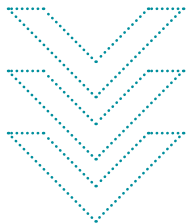
Red Bull Headquarters in Santa Monica, California incorporated a stylish look with a Schweiss glass designer bifold liftstrap 10-ton door.



We can offer assistance with installing interior or exterior doors and upgrading your existing building. Decorative door choices range from glass, mesh, wood, stucco, rockface material and much more.

Schweiss Designer hydraulic and patented liftstrap bifold doors have been showing up all across the United States and abroad. They can be seen on the Guthrie Theatre in Minneapolis, SpaceX at Cape Canaveral and Houston, Red Bull Headquarters, AT&T "Giants" Baseball Stadium, Stanford University and Napa Valley Vineyards in California. Others are at Cycle City in Hawaii, the Ritz Carlton Hotel in Shanghai, China, Old Navy in Texas and Under Armour on the east coast to name a few corporate giants. Many others have been used for residential, garages and for hangars. The possibilities are endless.

Schweiss Doors guarantees the best custom designer doors on the market. Check our website at: www.schweissdoors.com



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Are Inefficient BIM Processes Dragging Down Your Team's Performance?

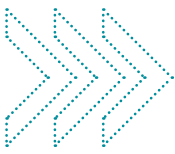
Wherever your firm may be in the adoption of BIM, if you've invested in tools like Autodesk's Revit, you need to ensure that you reap the benefits. Yet, it's difficult for project teams to recognize the flaws in their workflows. IMAGINiT's Revit Health Check can help.

Revit Health Check

Ensure the health of your model.



www.Imaginit.com/RevitHealthCheck



1

1 **Armstrong WoodWorks Open Cell Vector Panels**

Part of Armstrong's portfolio of wood ceiling systems, new WoodWorks open cell vector panels are available in three standard designs, two panel sizes and four natural solid wood finishes. By mixing and matching different sizes and designs, WoodWorks panels can be patterned in a variety of ways to create the look of a custom, one-of-a-kind ceiling. The open-cell design allows the use of pendant lights and other hanging fixtures without cutting through panels. Infill panels are available to add acoustical treatments to a space or to cover plenum obstructions.

armstrong.com/ceilings



2

2 **American Specialties Inc. TRI-Umph**

The TRI-Umph automatic high-speed hand dryer is a new super-hygienic, fast-drying option for commercial restrooms. Part of American Specialties Inc.'s Roval collection, the dryer features an easy-to-use ergonomic design, allowing users to dry their hands in a natural position without water splash-back or water falling to the floor. It is outfitted with a super filter system comprising three layers: HEPA, carbon and antimicrobial. The filters eliminate airborne bacteria and particles as small as 0.3 microns.

americanspecialties.com



3

3 **Chicago Faucets HyTronic Edge**

The HyTronic Edge electronic faucet provides modern design to commercial restrooms, with a variety of styles, flow rates and power options available. The angular Edge spout is cast

entirely from ECAST low-lead brass to meet current lead reduction requirements. It is compatible with deck plates, outlets and other accessories in the HyTronic series. All HyTronic faucets, including Edge, may be powered by an AC adapter, six-volt lithium battery or a self-sustaining power system.

chicagofaucets.com

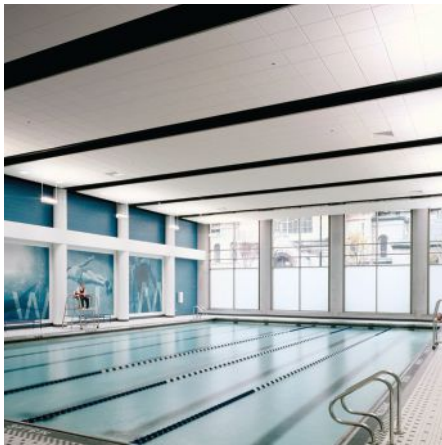
4 Chicago Metallic EuroStone These sustainable ceiling panels from Chicago Metallic provide acoustical performance, environmental responsibility and long-term durability in high-performance buildings. They are made from an inorganic blend of volcanic stone as well as inorganic binders, containing no VOCs, surface coatings or biocides. Backed by a 40-year limited warranty, the ceiling panels can achieve noise reduction coefficients up to 0.65 and have a published light reflectance of 0.76. At the end of their useful life, the panels can be recycled.

chicagometallic.com

5 **Diamond Spas**

The stylish design and functionality of Diamond Spas' custom stainless steel spas can add luxury to any address. Each product is handcrafted with a recycled, heavy gauge 316L metal stainless steel. A host of optional features include multi-massage jets, LED lighting, full skirting around the spa, and built-in bench seats. The spa measures 70 inches x 94 inches x 36 inches, with the skirt measuring 22 inches.

diamondspas.com

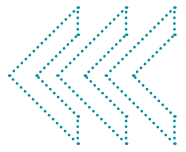


4



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Photo by Jason Dewey



6 Fulcrum Composites Curved Panels

Fulcrum supplies a range of curved panel products which can be used in conjunction with drywall to create curves that are difficult or impossible to create with conventional drywalling techniques. Products include: 90-degree inside and outside corners; column covers; 180-degree wraparound to soften the ends of stud walls; and interior arches. The panels install and finish as if they were dry-wall, including depth-set screws, taping, mudding and finishing. Curves are pre-made and ready to install, saving considerable time and effort on the jobsite. fulcrumcomposites.com

7 IndoTeak Recycled Teak

IndoTeak Design has successfully pioneered a process that utilizes the teak siding from reclaimed buildings. Transformed into flooring, herringbone and wall plank, this material exhibits an authentic patina and provides a durable surface. Available unfinished or prefinished with a zero-VOC hard wax oil finish

in seven colors. Herringbone comes in 9/16-inch x 5 1/4-inch x 21-inch pieces; flooring and wall planks are available in two sizes: 3/4-inch x 8 inches and 9/16-inch x 5 1/4 inches.

indoteakdesign.com

8 Johnson Hardware Fascia Products

Created for use with Johnson Hardware's heavy duty 200PD Series, 200WM Series, 200SD Series and 200MD Series, the new Bronze Anodized and Clear Satin Anodized Finish fascia products provide two easy-to-install and beautifully finished options to the informal look of exposed track. For an added touch of elegance, Johnson also offers pocket door pull sets and locks sets, as well as mortise locks in satin nickel, silver patina, polished brass, medium bronze or oil rubbed bronze. johnson-hardware.com

6



7



8



GlassFilm Enterprises

WE HAVE DESIGNS ON YOUR GLASS

GFE offers a variety of film-to-glass applications designed to enhance the appearance of glass. **LUMISTY**, pictured right, makes glass change from transparent to translucent depending on the angle of view. Also available is **DECOLITE**, a series of translucent films with or without patterns, that simulate etched glass. Recent product introductions include **DICHRO-MIST**, a dichroic film that changes the color of glass depending on the angle of view, **GFE COLORS**, a series of transparent colored films, and **CUSTOM DESIGNS**.

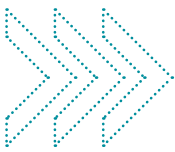
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www.GlassFilmEnterprises.com



Lumisty MFX, foggy straight-on, clear from an angle.



11



9



10

9 Móz Designs Cosmos Aluminum Panels

Cosmos is the latest addition to the Móz Graphix Collection of graphically enhanced aluminum panels. Available in two scales, the series has dramatic light-to-dark color gradients that merge vibrant tones into subtle neutrals. Color spectrum options include Twilight, Dusk, Moonlight, Earth and other cosmically inspired variations. Cosmos is available in 48-inch x 96-inch and 48-inch x 120-inch aluminum or corrugated aluminum sheets with solid core thicknesses that range from 0.040 inches to 0.125 inches. mozdesigns.com

10 O'Brien Metal

O'Brien Metal, Inc. crafts high-end metal accents for the luxurious home. Designed for both function and aesthetics, precious metal grillage and friezes can accentuate any room or specific element in the home. The process utilizes either custom casting or precision laser-jet cutting of brass, bronze, nickel silver, rose red copper and a variety of unique metal alloys. Custom and semi-custom options available to align with individual architect and designer preferences. obrienmetal.com

11 Outwater Decorative MDF Screening Panels

Decorative MDF screening panels from Outwater come in a variety of new designs. Intended to add a stylish flair to any type of paneling application, the panels are ideally suited for use by manufacturers, woodworkers and builders as decorative ornamentation for interior walls, ceilings, doors and more. They are 2 feet high and 6 feet

wide, and are available in 10 different patterns comprising geometrically shaped airflow perforations that range from 30 percent to 49 percent open. outwater.com

12 Precision Stone Design

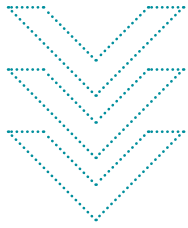
Precision Stone Design can create custom stone work for any project, such as its recent transformation of an outdated masonry brick façade fireplace to fit a contemporary space while being functional and housing all of the client's electronics. A specially imported Linac marble from Turkey was used as a wrap using miter lamination at the joints to create a seamless design. Precision Stone Design also added a custom wood substructure to house and separate the electronics. precisionstonedesigns.com

13 Sherwin-Williams TuffWall Texture Finish

TuffWall Premium Texture Finish is a 100 percent acrylic interior coating that is easy to apply and stays where it is sprayed. Beyond a knockdown texture, finishes such as splatter or orange peel textures can also be achieved. TuffWall can be applied by airless spray to provide a smooth base coat and can be tinted to hundreds of custom colors. The texture finish complies with VOC regulations nationwide, and has mildew resistance and a Class A fire rating. sherwin-williams.com/home-builders



12



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FEATURED PRODUCT

The Chicagoland Roofing Council and the United Union of Roofers, Waterproofers and Allied Workers Local 11 partner together to provide the best value to AIA Member Client building owners, managers and general contractors in Northern Illinois and beyond.

Chicagoland Roofing Council (CRC) contractors have provided all kinds of roof covering for building owners and managers. CRC Contractors' long history of success includes installations of everything from multi ply coal tar pitch or asphalt and gravel built up roofs to single ply PVC, TPO, EPDM and modified bitumen.

BUR roofs were invented in Chicago just after the Great Chicago Fire of 1871 to provide water and fire resistance to the new 'low sloped' roofs that became the standard for high rise construction. Some CRC Contractor companies who were involved in the development of these roofs are still in business today.

In Chicago, a new roof concept started in North America with Mayor Daley's Vegetative Green / Sustainable Roof at City Hall over 10 Years ago. A CRC Member Contractor installed the roofing system and managed everything over the top of the roof membrane. CRC Members have installed over 2,000,000SF of Vegetative roofs from the deck to the soil media surfacing with Intensive, Semi Intensive, or Extensive Vegetative toppings.

CRC Member Contractors have the educated workforce and the company knowledge, all backed by the culture of a roofing professional for the best roof possible. Whatever is placed on top of the roof, (vegetative, gravel, or even ballast, pavers, smooth surface roofs and coatings or photovoltaic and wind systems), a great roof comes first. Without a leak free roof, the time, effort and money spent on all the other extra items is wasted.

The CRC Members partnership with Chicago's Design,

*CRC Member
Contractors provide
a reasonably priced
leak free roof.*

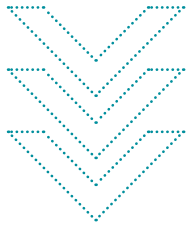


Construction, Building Owner and Manager, and Building Official communities means we understand what's needed to protect a building from the top down, while creating the best value for the building owner and manager.

We understand what works on the roof and respect what we put on it for wind, fire and weatherability protection for the building. Visit www.chicagoroofting.org and call the professionals at CRC for a great roof that's multifunctional and yet performs as you'd expect a roof to ... flawlessly.



www.chicagoroofting.org



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Wine Rooms and Displays from NEFF® of Chicago

NEFF® of Chicago is an independent, custom design boutique, featuring the exquisite cabinetry of NEFF® Kitchens. From Classic Traditional to Avant-garde Contemporary, old world craftsmanship meets innovative technology to create Design Nirvana – a vast array of exotic wood grains, colors, metallics and finishes. That's why NEFF® cabinets have adorned some of the finest homes of distinction throughout the world since 1966.

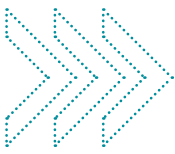
NEFF® of Chicago's design team works with homeowners, Architects, Designers, and Builders to create Kitchens, Bathrooms, Valet Closets, Wine Rooms and other architectural features that help to make a home or project truly unique. NEFF®'s specialties include curved wood, exotic veneers and inlay, and proprietary metallic paint finishes, including our new Liquid Metal Coatings for wood. Our showroom is located in Suite 145 on the main floor of Chicago's Merchandise Mart, but we'll work on projects anywhere. Call Pat Borg at **312 467-9585** to discuss your next design challenge.



Introducing NEFF® of Chicago's Extraordinary Custom Wine Rooms and Display Units, which feature display shelves with patented non-slip gaskets, LED lighting and rich wood finishes.



www.neff-of-chicago.com



14



15

14 ThinkGlass Stair Treads

ThinkGlass staircases are designed and produced using a process that eliminates lamination lines, allowing for glass treads with polished edges and seamless construction. Glass staircases are made from natural, fully recyclable materials that allow natural light to flow through a space. Through the brand's green production practices, the result is a radon-free product that has no negative impact on air quality and can earn points under LEED and NAHB building guidelines.

thinkglass.com

15 Archistoric GREEN Lighting Restoration

Archistoric GREEN offers a complete range of restoration and retrofit services for fixtures of architectural or historical significance. Relying on an extensive parts and castings inventory and archive of lighting designs, the visual and historical richness of any fixture can be maintained. Archistoric GREEN

also provides extensive energy retrofit services to improve overall lighting performance. Its team can provide multiple engineering options to maintain the existing historical look while achieving lighting efficiency goals.

archistoric.com

16 Tandus Powerbond

Powerbond hybrid resilient flooring is made from the fusion of closed-cell cushion technology with a nylon wear layer. Seams are permanently sealed against moisture to ensure no microbial penetration. Heterogeneous construction and welded seams make Powerbond a suitable medium for inlay designs. Powerbond provides immediate cost savings and is less costly to maintain than VCT, resilient, broadloom or modular carpet.

tandus.com



16

LESSONS LEARNED: COMPATIBILITY

With LED lighting, you want to make sure the LED driver and photocells are compatible with the lighting control system selected. As with any developing product, not all manufacturers create equal products. If you have more than one LED manufacturer, make sure they offer the desired Kelvin temperature. For the time being, allow for additional panels in the building closet. Ask if the fixture is rated for Chicago plenum requirements.

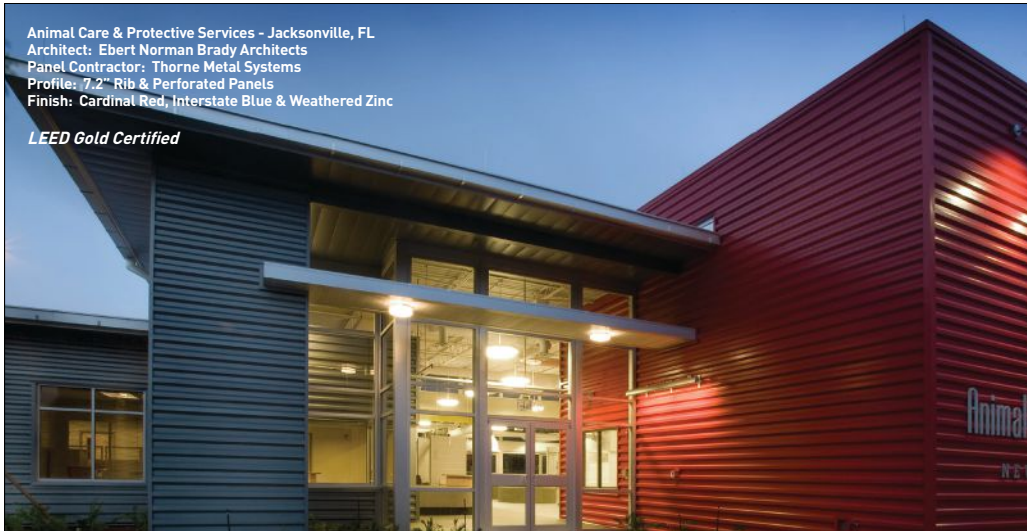
As an example, along with the design team of Design Republic, we recently completed two projects using new recessed and pendant fixtures. They create crisp, uniform light through an emerging technology enabling a wider beam spread and spacing and higher lumen output than linear fluorescent options. This reduces the amount of fixtures required.

Andrew Roskos, AIA, Interior Architects



Animal Care & Protective Services - Jacksonville, FL
 Architect: Ebert Norman Brady Architects
 Panel Contractor: Thorne Metal Systems
 Profile: 7.2" Rib & Perforated Panels
 Finish: Cardinal Red, Interstate Blue & Weathered Zinc

LEED Gold Certified



Cardinal Red, Weathered Zinc...LEED Gold



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Sustainable materials and eye-catching design. The PAC-CLAD 7.2 Panels offer heavy horizontal shadow lines that are appealing for this LEED® Gold Certified project.

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—Tom Norman, Project Manager + Designer
 with Ebert Norman Brady Architects

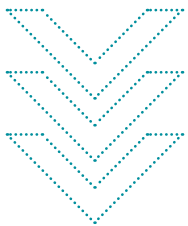
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Founded in 1965 by Pius Bernhard, a German Master-cabinetmaker, Bernhard Woodwork continues in the tradition of fine European, crafted woodwork using the most modern tools located at our 100,000 sq foot plant in Northbrook, IL. We take pride in controlling all aspects of the project in-house from applying veneer through finishing and installation to maintaining quality. Bernhard Woodwork has grown into a national company with clients that include unique projects such as luxury yachts and homes featured in Architectural Digest.

Bernhard Woodwork is a certified "Premium" grade quality by the Architectural Woodwork Institute Quality Standards and is a Women's Business Owned Corporation (WBE).

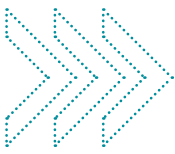


Bernhard Woodwork Ltd. supplies fine woodwork to Corporate, Residential, and Retail Clients throughout North America. This private study/office in the Chicago area was custom crafted to showcase the owner's guitar collection out of horizontally matched Butternut.



Bernhard Woodwork
 ARCHITECTURAL WOODWORK

www.BernhardWoodwork.com



PRODUCTS FOR ARCHITECTS

windows & doors

2



3



5

1



1 AGNA Energy Select and Comfort Select Glass

Energy Select and Comfort Select are two new product families of low-emissivity coated glass products from AGNA. Energy Select, for architectural applications, includes a wide range of neutral and reflective low-e coated products, plus Energy Select 25 with tinted glass colors. Comfort Select, for residential applications, provides an array of new passive solar and solar control low-e coated glass, plus Comfort Select 28, a new triple silver low-e glass.

us.agc.com/building

2 Quanex Patio Doors with I2I System

Quanex's line of in-swing and out-swing patio doors can now utilize the Inception to Installation (I2I) system for increased weather protection. The system features four separate components: 5Y thresholds for a stronger door bottom-to-rail seal; astragals with the patented TripleSEAL design to prevent leaks; leading edge corner pads to reinforce the weather strip in the corners; and the ImperiClad water-impervious door jamb system. quanex.com

4



3 Pella 350 Series

Pella 350 Series windows and doors feature double or triple glazing, optional foam inserts and frames with up to 18 insulating chambers; the series offers U-factors as low as 0.17. Color choices include White, Almond or dual-color (white interior with brown exterior factory-applied frame finish). Window styles include double-hung, single-hung, casement, awning, sliding and fixed. The 350 Series also includes sliding patio doors.

pella.com



6

4 Wausau INvent Retro Windows

These extruded aluminum windows feature a narrow, beveled exterior face that replicates the look of classic steel and wood windows while offering modern high performance. The double insulating glass can achieve a U-factor as low as 0.39 and a Condensation Resistance Factor as high as CRF Frame 60/CRF Glass 70. Triple insulating glass is also an available option. 18 mm and 24 mm XLT polyamide thermal barriers enhance durability and thermal performance. Wausau offers 30,000 color choices as liquid or powder coatings.

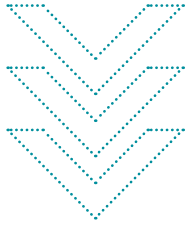
wausauwindow.com

5 Kolbe Contemporary and Traditional Doors

The Ultra Series contemporary, in-swing door is configured with asymmetrical panels; each contains four lites of frosted glass. The main door panel provides regular entry, and when desired, the smaller panel also operates for an expansive opening. Additionally, Kolbe's all-wood Heritage Series exterior door communicates a classic, welcoming entrance flanked with sidelites. The matching sidelites feature a 3.5-inch flat casing with back band and insulated Renova glass. kolbe-kolbe.com

6 Peerless EnergySave G-Series

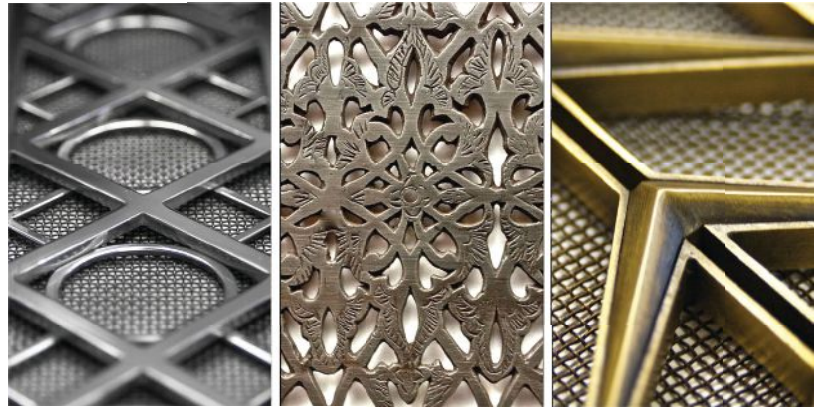
The EnergySave G-Series of aluminum French doors is designed to provide an unobstructed larger opening area by eliminating the need for a meeting rail or a vertical mullion between the doors. The design incorporates a multi-point locking system along with an optional key-operated handle for improved security. Durable metal handles and hinges are featured for



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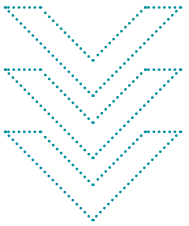


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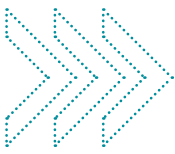
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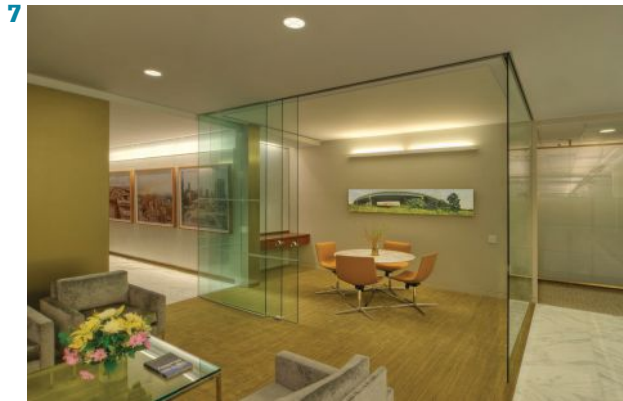
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PRODUCTS FOR ARCHITECTS

windows & doors



continued performance. Different finishes can be used, one on the exterior of the door and another for the interior.

peerlessproducts.com

7 Klein USA Extendo Telescopic Door Systems

Joining a family that already includes two- and four-door versions, Klein USA has added a new three-door system to its line of Extendo telescopic interior sliding glass door systems. All Extendo telescopic door systems are designed to divide space through synchronized sliding frameless glass doors. In the new three-door system, two of the glass doors slide to one side and the third to the other. No floor track is needed in the door system's opening.

klein-usa.com

8 Simonton StormBreaker Windows

In summer 2012, the 100-year-old Providence Rehabilitation Center in the Bahamas replaced its windows—originally installed in 1937—with StormBreaker Plus vinyl windows, a decision that proved beneficial when severe weather

associated with Hurricane Sandy passed through in October. The impact-resistant windows feature a one-inch insulated glass unit, double glazing, tempered inside pane glass and laminated outside pane glass. StormBreaker windows are designed to help withstand high winds and wind-driven debris without the use of shutter systems.

simonton.com

9 Schweiss Doors Red Power Hydraulic Pump

The Red Power Hydraulic Pump from Schweiss Doors comes to the buyer in a compact unit, ready to be mounted where the buyer wants it, whether it be on a wall, top-hung, floor or back room. The Safety Advantage System and three back-up systems allow the door to lock up and down and safely lower in an emergency from ground level. Red Power hydraulic pumps range from 2 to 10 horsepower. **bifold.com**

10 Deceuninck Genius Inter-linked Dual Sash Window

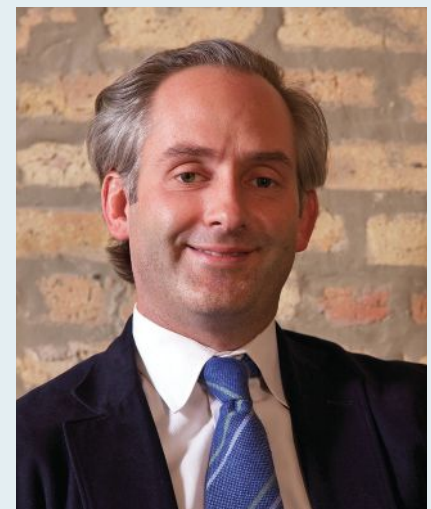
Deceuninck North America's Genius system is the world's first



LESSONS LEARNED: CONDENSATION

Many of our residential projects include steel window and door systems. We love the minimal profiles and expansive glazing. With this improved aesthetic comes the challenge of preventing condensation, especially in our region of the Upper Midwest. When specifying steel windows and doors, we have learned to 1) provide sufficient air flow across the interior face, 2) avoid the installation of large curtains, and, 3) specify, when budgets permit, thermal steel or bronze frames, as opposed to traditional hot-rolled steel. This will prevent condensation and any related moisture damage to interior finishes.

Bill Bickford, AIA, LEED AP, Northworks





interlinked dual-sash window that enables thermal performance values exceeding R-14 without the use of exotic films or gasses. The system is designed with two separate, interlinked insulated glass sashes, which creates bonus air space between the two sash members and results in an extremely effective barrier to thermal energy flow. Genius also features a thermal-activated ventilation system that automatically vents solar-heated air into the interior in the winter and outside in the summer.
deceuninck-americas.com/genius-window

11 Kwikset Montara Handleset

Kwikset's Montara Handleset provides two points of locking—on the handle and the deadbolt—for added security at home. Montara features a stylish arched design that can be adjusted to fit any standard door

prep. The handleset also comes standard with Kwikset's SmartKey Re-key Technology, which allows builders, remodelers and homeowners to quickly re-key the locks.
kwikset.com

12 ODL Decorative Doorglass Designs

Inglenook is an addition to the Craftsman line of decorative doorglass. The prominent, geometric design features clear soft-wave and micro-iced granite glass with clear bevels and ruby-red floral accents. Inglenook features patina coming. Grace is offered in the Classic style of doorglass and features a combination of granite, micro-granite, micro-cubed, and clear bevels. The flowing center pattern includes soft, delicate edges that highlight the elegant structure of the glass panel. Grace is available in nickel coming. **odl.com/doorglass**

10



11



12

STABILIZED DECOMPOSED GRANITE



KAFKA STABILIZED PEWTER GRANITE
Walgreens Corporate Grounds - Deerfield, IL



KAFKA STABILIZED MIDNITE BLUE GRANITE
Max McGraw Wildlife Foundation - East Dundee, IL

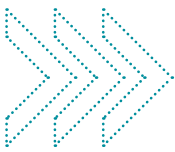


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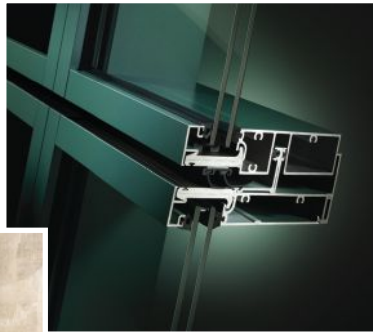


PRODUCTS FOR ARCHITECTS

structural



1



2

1 ClarkDietrich BlazeFrame

BlazeFrame from ClarkDietrich Building Systems is an innovative fire-stopping, head-of-wall system used for lightweight steel-framed commercial buildings. Featuring an affixed fire-stopping material on steel profiles, BlazeFrame simultaneously frames and provides a fire rating as well as a smoke and sound seal of both dynamic and static perimeter joints. The unique design offers protection and support for up to 3 inches of movement capability, while eliminating requirements for caulks, sprays, drywall rips and contour drywall cuts throughout joint assemblies.

clarkdietrich.com

2 EFCO 8750XD Unitized

Curtain Wall Part of the XTherm family, the new 8750XD unitized curtain wall leverages Duracast fiberglass composite technology in a patent-pending thermal break design. It is shop-fabricated and -assembled, helping reduce field labor costs. With an industry-leading U-factor of 0.31—a 35 percent improvement compared to

conventional unitized walls—the 8750XD offers popular system profiles, multiple configuration options and integral vents for optimal design flexibility.

efccorp.com

3 Honeywell Solstice Liquid

Blowing Agent Solstice Liquid Blowing Agent (LBA) is approved for use in spray foam insulation for residential and commercial buildings, insulated metal panels, foam insulation in refrigerators and other applications. Solstice LBA has a global warming potential (GWP) of less than 5, significantly lower than hydrofluorocarbon (HFC) blowing agents. Blowing agents allow closed-cell foam insulation to expand and provide the majority of the foam's excellent insulating properties.

honeywell.com

4 Knauf EcoSeal System This water-based elastomeric sealant delivers high-performance air sealing with consistent thermal and acoustical performance. It is applied at 1,700 to 2,200 psi, aggressively penetrating cracks,

3



4



LESSONS LEARNED: BUILDING ENVELOPE

We have had the opportunity to do a couple of new construction projects with insulated concrete form (ICF) envelopes. In our experience, they have proven to be the best-performing building envelope from an energy perspective, even performing better than anticipated. The monolithic nature of the wall system and continuous insulation from foundation to roof minimizes air infiltration and reduces energy consumption by as much as 50 percent. The envelope rises quickly with each floor height being poured in a day, and the integral fiberglass studs eliminate the need for additional framing since interior gypsum board and exterior finishes fasten directly to the ICF.

Cheryl Noel, AIA, LEED AP, and Ravi Ricker, AIA, LEED Assoc., Wrap Architecture





5



seams and joints. The product dries quickly to a flexible but tough film that forms an effective, continuous and affordable air barrier in the penetrations and joints of the building envelope. EcoSeal achieves optimum thermal and acoustical performance in combination with Knauf EcoBatts insulation or Knauf JetStream Ultra. **knaufinsulation.us**

5 Linetec Antimicrobial Aluminum Protection

Linetec introduces the use of antimicrobial protection for high-touch architectural metal products, such as doors, windows, curtainwall, entrances, panels and column covers. It is infused into select polyvinylidene fluoride (PVDF) finishes to inhibit the growth of stain- and odor-causing bacteria on the coating of

aluminum surfaces for health care facilities, educational campuses and other buildings. When moisture is present, the ion exchange mechanism infused into Linetec's select finishes acts to disrupt the growth of such bacteria. **linetec.com**

6 Trim-Tex LED Bead

This rigid vinyl product installs directly to the drywall and has an angled leg that allows installation of LED strip lighting at the optimal light angle. It accommodates low-profile, 3/8-inch-wide LED strips. The angled leg also creates a crisp line and accent shadow for a sharp clean look. The bead mud leg allows the bead to seamlessly blend into the drywall.

trim-tex.com



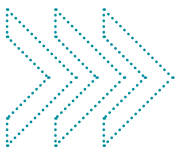
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PRODUCTS FOR ARCHITECTS

mechanical/electrical/hvac



1 Ultra Series Ventilation Fans

Broan-NuTone has introduced 20 models of Ultra Series Ventilation Fans and Fan/Lights, available in both single- and multi-speed models. Ultra fans include Ultra Quick Installation Technology that allows for the fan to be installed in minutes in retrofit applications from the room-side with Ultra's unique telescoping mounting frame; the frame closes together to fit through drywall openings and then expand once above the ceiling. The fans offer energy efficiency and operate at less than 0.3 sones for quiet operation. **broan.com**

2 DewStop Fan Switch

Reduce mold and mildew in the bathroom or anywhere else with this moisture-sensing fan switch from GTR Technologies. The Condensation Sentry sensor detects condensation on nearby surfaces and automatically activates the ceiling fan, airing out the room until it reaches an acceptable level. At that point, the fan will shut itself off. Users can also turn the fan on and off manually as needed. The device can be retrofitted for any model of ceiling fan. **dewstop.com**

3 Serena Remote-Controlled Shades

These battery-operated shades from Lutron can be adjusted manually via remote control or programmed to different settings. Styles include single- and double-cell light filtering and single-cell blackout, allowing users to tailor them for any room in the house. Serena Remote-Controlled Shades operate on standard D cell batteries, with a lifespan of three years. **lutron.com**

4 Warmup 3iE Energy-Monitoring Thermostat

The 3iE energy-monitoring thermostat, designed exclusively by Warmup, is the first programmable thermostat on the market with Active Energy Management, which prompts users to lower energy settings while maintaining comfort levels. An easy-to-use, touch-screen interface eliminates complicated instruction manuals. Seasonal variations are calculated to activate the system earlier in colder weather and later in warmer weather. Clear graphic displays make any program adjustments quick and easy in up to 10 languages and screen styles. **warmup.co.uk**

LESSONS LEARNED: COMPONENT COMMUNICATION

One commercial project utilized a geothermal system with a building automation system (BAS) to control the heat pumps and the associated pumps to the air handlers. When winter hit, the temperatures threw the system into a freeze alarm and shut it down. It ended up being a communication issue between the BAS and the heat pump controllers. The system manufacturer proposed installing a specific thermostat control between the system and the heat pump that would reduce the signal speed, which worked. Lesson learned is that mechanical systems are made up of components, many of which are made by different manufacturers, all of which need to be controlled. *John Birazzi, AIA, CSI, LEED AP, Booth Hansen*



Small projects are big news



99 Bottles of Beer Chandelier, Wrap Architecture, Photo by Robert Harris

AIA Chicago's 3rd Annual Small Project Awards

Presented by the AIA Chicago Small Practitioners Group, the Small Project Awards recognize outstanding structures and objects by small architecture firms, as well as exceptional small projects.

Come celebrate the winners and see all the projects at the Small Projects Awards Reception, Friday, May 3rd, Architectural Artifacts, 4325 N. Ravenswood, Chicago.

Visit www.aiachicago.org for more information and to see last year's submissions.

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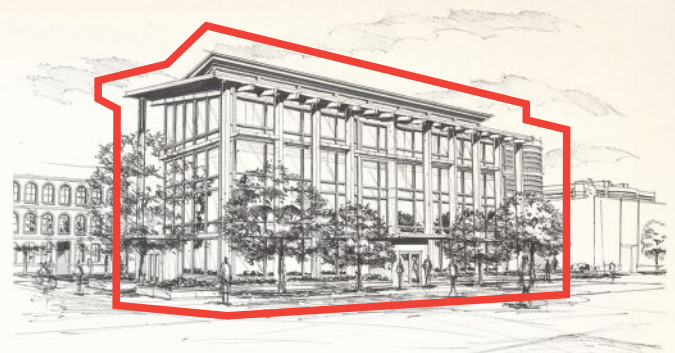
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PRODUCTS FOR ARCHITECTS

outdoor living

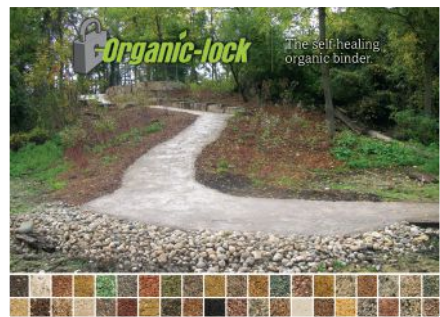


1 Azek Deck Rail Lighting

Azek Building Products has debuted several rail lighting options, including lighted post caps in two styles: the Villa Cap, available in white and black, and the Island Cap, offered in white, black, brownstone and dark brown. The company also offers Azek under top rail lighting, which adds a warm ambience while being hidden from view. The under-rail lighting can be powered in conjunction with the post caps. azek.com



2 Big Ass Fans Haiku Capable of the same efficiency as Big Ass Fans' larger-diameter fans, the Haiku ceiling fan is designed for smaller commercial and residential applications, with a wingspan of 60 inches. The concealed motor of this new fan delivers an 80 percent improvement in efficiency over conventional ceiling fan motors, exceeding Energy Star requirements. Operated by remote control, the fan has 10 settings, including "Whoosh," which simulates natural variations in airflow for greater user comfort. The airfoils are made of Moso bamboo and feature an aerodynamic profile, providing smooth and silent airflow at all speeds. bigassfans.com



3



4

3 Organic-Lock Organic-Lock organic glue is now offered through Kafka Granite. In addition to its permeability and unparalleled ability to resist erosion, Organic-Lock's self-healing properties make repair and maintenance simple. Furthermore, with more than 40 Kafka Granite colors of natural stone and recycled materials to choose from, Organic-Lock is transformed into a unique and environmentally friendly alternative to hardscape. kafkagranite.com

4 TUFboard Deck, Siding and Trim These deck, siding and trim pieces from TUFboard are all manufactured from PVC for a lightweight yet durable option. Siding pieces are 5/8-inch thick with a smooth or wood grain embossment. The Fast-Trac integrated locking system allows hands-free nailing and installation. The four-sided-capstock PVC deck boards eliminate rotting, cracking, splitting or splintering and are available in solid and variegated colors among TUFboard's selection. Trim pieces are available in Freefoam, Celuka and Plastic-Wood Composite with a smooth/smooth or wood grain/matte finish. tufboard.net

LESSONS LEARNED: MATERIAL STRENGTH

As designers, it's important to note that landscape is a crucial connection between our buildings and the outside world. I've learned to think of outdoor design as a strength challenge: not only does weather need to be considered, so does abuse. Think grease, vehicles, maintenance equipment, and—in our climate—snow, ice and salt. Some things are easy, like avoiding thinly sized stone and pavers that crack after their first season, or materials with high levels of calcium, which reacts chemically with salt. Most importantly, I look for materials that also lend themselves to interior use.

Jason Smith, AIA, SmithGroupJJR



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➔ KEYNOTE SPEAKERS



Tuesday, September 10

"Current and Future Trends in the AEC Industry"

Presented by: Robert Ivy, FAIA, CEO of the American Institute of Architects. Ivy served as Vice President/Editorial Director of McGraw-Hill Construction and Editor-in-Chief of *Architectural Record*. He received the 2009 G.D. Crain Award for lifetime contributions to editorial excellence in business media.



Wednesday, September 11

"What Do They Know That We Don't? Lessons From Beyond the U.S."

Presented by: Jerry Yudelson, PE, one of the first group of LEED professionals to be named a LEED Fellow. Author of 13 books on green building, he has keynoted nearly 100 green building conferences in 14 countries. His keynote speech is based on his latest book, *The World's Greenest Buildings: Promise vs. Performance in Sustainable Design* (with Ulf Meyer).

➔ For more information on the BUILDINGChicago keynote speakers, visit www.BuildingChicagoExpo.com.

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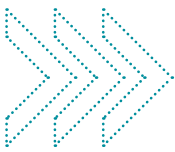
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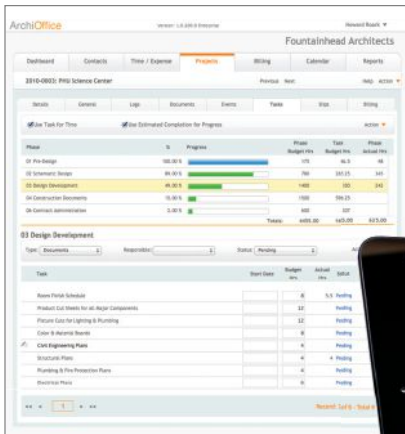
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www.BuildingChicagoExpo.com



PRODUCTS FOR ARCHITECTS software



1

1 ArchiOffice ArchiOffice is the brainchild of an architect who wasn't satisfied with off-the-shelf project management, time and expense tracking, and invoicing software that just didn't understand the unique needs of an architectural firm. Designed to simplify and centralize all of the management needs of the firm, ArchiOffice empowers architects to deliver higher-quality services to their clients while increasing profitability and reducing risk. bqe.com/ChicagoArch



3

3 Trim-Tex Drywall Solutions App The Trim-Tex Drywall Solutions iPad app contains a photo gallery, easy step-by-step and how-to guides, the 2013 Trim-Tex catalog, an authorized dealer locator function and more. Contractors, builders, architects and homeowners can easily share content such as photos and videos with others using the built-in share feature. The app also allows for easy connection with Trim-Tex via social media outlets. trim-tex.com

2



4

2 Vectorworks Architect From concepts to construction documents, Vectorworks Architect software has a comprehensive set of tools to support an entire practice. Using the Parasolid 3-D modeling engine, the program can tackle complex models, and the program's BIM capabilities help streamline costs, analyze materials and increase energy efficiency. Impressive renderings can be created with the CINEMA 4-D render engine in the Renderworks application. vectorworks.net

4 VT Wood Door Spec Writer This online utility program was developed to help commercial architects and specifiers as they create wood door specifications for projects. After data requirements—such as core type, fire rating, face material or finish color—are entered, the Wood Door Spec Writer creates up-to-date specifications to meet building standards. It also has the ability to calculate and create custom LEED point documents. vtindustries.com/spec-writer

LESSONS LEARNED: CONTINUAL EVALUATION

In order to design buildings that perform at higher levels of sustainability, we are continually evaluating software tools that provide us with energy data early in the conceptual design process. This allows us to develop concepts with real-time information that informs the design process.

David Mann, AIA, Booth Hansen



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Going Local

USING LOCALLY SOURCED PRODUCTS AND MATERIALS TIES ARCHITECTS TO COMMUNITY

By Amy McIntosh

As the economy struggles to get back on its feet, using locally sourced products is becoming increasingly beneficial for architects and communities alike. Locally sourced materials offer a direct tie between the community and the project, providing local jobs and keeping money circulating

in the local economy—all while potentially reducing costs.

They also offer real benefits for architects and clients. A project can earn up to two LEED points if 10 to 20 percent of the building materials or products have been harvested and manufactured within 500

To save the maple trees found on the site of the Ross Barney Architects-designed Jewish Reconstructionist Congregation in Evanston, LEED Consultant Helen Kessler, FAIA, of HJKessler Associates, Inc., repurposed them into the building's ceremonial door.

miles of the jobsite. The credit also applies to wood products sourced from a forest within 500 miles.

"[Five hundred miles] is actually a pretty broad definition," says Nathan Kipnis, AIA, principal of Kipnis Architecture + Planning. "Around here you could easily do it within 100

miles. That gets you to Chicago, Milwaukee and Gary.” According to Helen Kessler, FAIA, principal of HJKessler Associates, the products that are easiest to find within 500 miles of the Chicagoland area—steel, concrete, brick and block, and drywall—are all readily available in the Midwest.

However, the benefits don’t come without their obstacles.

“The big challenge starts to be that there’s a lack of variety. If you’re buying into local products, then that’s your palette,” Kipnis says. “Maybe the colors or materials are limited, or the prices aren’t the cheapest. Those are some of the challenges and you have to embrace them and not think of them as detriments.”

When it comes to costs, the upfront price of the product may mask some key considerations for architects. A product from China, for example, may cost less than a comparable local one, but the cheaper option eliminates the added sustainability benefits.

“If you think about sustainability as being about the triple bottom line—taking a look at economics, the environment and the social issues—then locally manufactured

products made from locally harvested materials will support all three of those things,” Kessler says.

Locally sourced products do offer a major savings on transportation costs. The heavier the product, the more beneficial buying local is for the project’s budget.

Using regional materials also helps provide a meaningful connection between the project and the community.

Both Kipnis and Kessler have found that connection through the use of trees found on past project sites.

In Highland Park, Kipnis designed two adjacent residences on a lot that was home to a 70-inch diameter oak tree that had to be cut down. Instead of disposing of the tree, Kipnis, with the help of Horigan Urban Forest Products, used the wood for the first floor front doors, flooring and mantels for both homes.

“It would have been criminal to turn that tree into mulch,” Kipnis says. “Now it becomes part of the story of the house.”

At the Jewish Reconstructionist Congregation in Evanston, the congregation hoped to save some maple trees on the site. Kessler’s team determined that the trees

would die during construction.

“The trees were cut down and milled into planks that were then used to build the ceremonial door for the congregation,” Kessler says. “You can see how there’s some meaning to that.” Members of the congregation are able to continue enjoying the benefits of their much-loved trees, as they have become an integral part of the building.

Further enhancing the connection between a community and a project, locally sourced products tend to exhibit colors and materials characteristic of their region.

“It creates a sense of place,” Kipnis says. “When you go to different areas of the country, you expect it to feel like that part of the country.” That feeling is difficult to evoke, he says, when the products used are made in a different region.

Increasingly, architects are recognizing that the benefits of using locally sourced products outweigh any potential challenges. “The price of fuel goes up and down, but it trends higher every year. It’s not going to get easier to ignore this,” Kipnis says. “You really need to keep locally sourced products in mind because it’s only going to get more important.” **CA**

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WHAT'S **THE BUZZ?**

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LOCAL ARCHITECTS DISCUSS PRODUCT TRENDS, FUTURE PROSPECTS

Participants: Drew Roskos, AIA, LEED AP; Jason Smith, AIA; Dave Dankert, AIA; Renee Doktorczyk, FAIA, CCS, CSI, SCIP

HOW MUCH DOES CLIENT INVOLVEMENT DRIVE PRODUCT TRENDS?

Smith: It's not easy, but I think part of our job as architects is to educate clients, and part of it is to do the right thing regardless of the client. You might have a client who doesn't care so much about the performance of the building, and it won't perform as well as with a client who really does care—but you can still make it perform better than the minimums, even if it's behind the scenes.

WITH THE ECONOMY LOOKING BRIGHTER FOR 2013, HOW MUCH OF A FACTOR WILL COST BE IN PRODUCT SELECTION/SPECIFICATION?

Roskos: I think that cost is always the ultimate decider when trying to select a new product or different type of product. I think clients are definitely going to be approving projects, but I don't expect them to spend without caution. I think they'll try to stretch their dollar as far as they can make it. Their bottom line is most important.

[But] I don't think cost wins every time. It always depends on the clients. Some clients always want to be more forward-thinking than the rest of the group. But if it's too costly, they won't do it. It has to be either the right return on investment or near it.

Smith: It depends on the project. Some projects have ample budget or no budget; other projects are very budget-driven. I think as the economy starts to improve, you'll start to see some of these construction costs go up. It's sad in a lot of ways, but good in others, that with the economy being low for so long, clients have been able to get their buildings for a little bit less. And as that starts to improve, and people start to be able to not have to take a hit or operate at no profit to get the jobs, the client will have to start

paying a little bit more for their buildings again.

Dankert: I would think on the client side, we're probably going to have to be looking pretty closely at budget costs for materials and things. I don't know if that would necessarily limit what products we were considering over what we were using last year. It'll probably depend on how much of that product we're specifying and how much of the budget it ends up being.

WHAT ARE SOME UP-AND-COMING ARCHITECTURAL TOOLS OF THE TRADE?

Smith: There are some really great tools out there. My dad was a mechanic; I spent a lot of time in the shop with him growing up, and you'll never see a mechanic who's got only a few tools in a toolbox. As architects, we need just as many tools and every tool has its use. One tool I've used a lot in my career and that continues to be an extraordinary tool for both getting something that's in your head on the screen and making something that seems totally irrational into a very rational piece is Rhinoceros. That's one that you can do all kinds of 3-D modeling in, and you can get really crazy with it. You can create scripts within it to do parametric modeling. I know that's a big buzzword right now, but what it means for me is I can create the rules of how I would like a building to work. I can use a computer to test things out very quickly and get immediate feedback; for example, if I angle this wall this way instead of that way, now I'm going to have more incident radiation on that façade and it's going to get hotter. You get that feedback with tools like Rhino and Grasshopper, EVA and Gecko.

Anyone can make a good building, but it takes a lot of work to make it a good building that also performs. I think when you get a building that performs and can express that performance, you have a beautiful thing. **CA**



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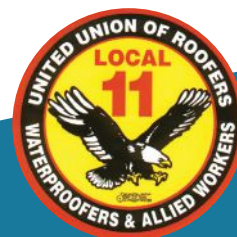
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