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# New & Emerging Products/Materials for Building Design

Joel K. Sims, AIA, President  
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Credit(s) earned on completion of this course will be reported to American Institute of Architects (AIA) Continuing Education Session (CES) for AIA members.

Certificates of Completion for both AIA members and non-AIA members are available upon request.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

This course is registered with AIA CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

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## Course Description

"New & Emerging Products/Materials for Building Design"

This class will focus on new and emerging products and materials suitable for use in the construction of higher education facilities. We live in an age where products are being developed at an exponential rate. It is important to keep up to date with new developments. Come see some new and interesting building products and materials. We will also identify some poor performing products as well as some "tried and true" building materials.

Instructor: Joel Sims , AIA

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## Learning Objectives

"New & Emerging Products/Materials for Building Design"

1. Discuss new and emerging products and materials suitable for use in the construction
2. Discuss products being developed at an exponential rate
3. Discuss how to keep up to date with new developments
4. Discuss new building products and materials

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## Office of the Future

Musical Chairs by Jerry Adler  
Architectural Record August 2016

Past 15 Years : Office size has gone from 200 sf to 100 sf  
Some predict it is headed to 60 sf

An open plan can accommodate approx. twice as many workstations in the same space as a cubicle plan

Office of the future: many places to sit and work but no place to call your own

Old Office: desks and meeting rooms

New Office: team project spaces, huddle rooms, collaboration rooms, pods, booths, focus rooms, alcoves, café tables, benches, etc.


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## Linea Cube

Self-Contained Workspace  
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Autonomous workspace equipped with its own ventilation , power, audio, and lighting systems each integrated into the suspended ceiling.

Noise insulation value up to 53 decibels

Units can be up to 10 ft high and 13 ft long.

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## Dying Trends?

### No-flush urinals

Waterless urinals can save water but the specialized maintenance and costly replacement parts have frustrated some buyers.

**How they work**

- Urine flows into trap, passes through sealant oil.
- Sealant oil floats above urine; seals in odors.
- Urine flows into drain line.

Replaceable trap cartridge fits into base of urinal fixture. Cartridge replaced after 7,000 uses.

**Pro**  
Saves up to 40,000 gallons yearly; water savings can offset cost.

**Con**  
Maintenance requires knowledgeable staff; regular replacement of costly parts.

SOURCES: Potal Water Free Technologies, Waterless Co.

Only **2.8** percent of urinals sold in United States in 2012 were water free.

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## What will your college/university look like in five years?

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### LifeSpan Workstation Treadmills.

[www.lifespanfitness.com](http://www.lifespanfitness.com)

# LifeSpan

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## Blood Bricks.

•“Abundant and yet almost always wasted, animal blood is an unlikely - and grisly - possible base material for building bricks. Architectural graduate Jack Munro sterilized the blood, added sand and baked them together to yield a strong, traditional-looking brick that’s also waterproof.”

Website: <http://allu2.blogspot.com/2013/10/16-futuristic-building-materials.html>

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## Weed Bricks.

•“A new bio-composite, thermal wall material made of hemp, lime and water is not only eco-friendly but actually carbon-negative thanks to the amount of CO2 stored during the process of growing and harvesting hemp. It’s 100% recyclable, waterproof and fireproof and could be used for everything from walls and insulation to flooring. Once demolished, the material can be used as fertilizer.”

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## Bacteria Bricks.

•“Will bacteria build the walls of our houses in the future? Scientists have directed the creation of bio-plastics, cellulose and other materials by feeding certain materials to specific varieties of bacteria. The resulting metabolic process produces solid, surprisingly durable by-products that could be used for all kinds of processes. Bacteria might even create bricks that could be used for building on Mars.”

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## Immortal Bricks.

“Not only would the new concrete being developed at MIT drastically reduce the carbon emissions currently associated with the manufacturing of this material, it would also result in an astonishing reduction in the amount needed in the first place. That’s because it’s strong enough to last for an incredible 16,000 years. This concrete will not only be stronger, but also lighter and thinner, so large-scale, lightweight structures require far less material.”



Website: <http://aiiaa2.blogspot.com/2013/10/16-futuristic-building-materials.html>


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## Hungry Bricks.

“2.9 billion tons of cement is produced every year, and it’s responsible for up to 5% of the world’s annual production of CO2. Novacem, a cement substitute made of magnesium silicate, actually absorbs CO2 from the atmosphere. It could potentially achieve one of the single largest reductions in CO2 emissions in construction, cutting out 800kg of carbon emissions per ton of poured concrete and absorbing another 50kg.”



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## ‘Liquid Granite’.

“Safer at high temperatures than concrete, but just as versatile, ‘liquid granite’ is made of 30-70% recycled material and uses less than a third of the cement used in precast concrete. It could be used in building projects that require the top level of protection against fire.”



Website: <http://aiiaa2.blogspot.com/2013/10/16-futuristic-building-materials.html>

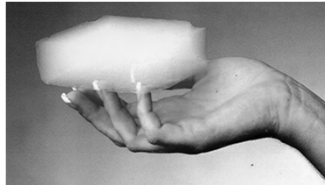
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## ‘Aerogel’.

“So light you can’t even feel it in your hand, aerogel has the lowest bulk density of any known porous solid, and it’s a powerful insulating material. Made up of a gel that has had its liquid component replaced by air, it’s thin, breathable, fireproof, strong and won’t absorb water. Manufacturers are now producing it in sheets as insulation, but it’s still pretty expensive.”



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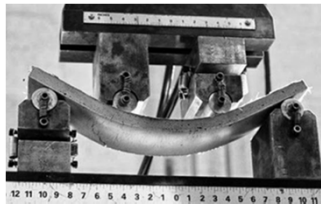
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Aspen Aerogels®  
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## ‘Bendy Concrete’.

“A new type of concrete can not only bend under 5% tensile strain, it does so by self-healing. The material forms micro-cracks when bent, which then seal themselves after being exposed to water and carbon dioxide.”



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## Materials: Ceilings

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\*Website: <http://www.armstrong.com/commcellingna/products/ceilings/optima-crete/>

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- More affordable than wood Powdercoated for durability
- Fire rated Acoustical options available

\*Website: <https://www.armstrong.com/commcellingna/article60650.htm>

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**Materials: Walls & Floors**

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- A light-conducting matrix embedded in a substrate
- They redirect and scatter incoming light in a similar way as fiber optics.

Website: <http://tinyurl.com/201310016-furniture-building-materials>



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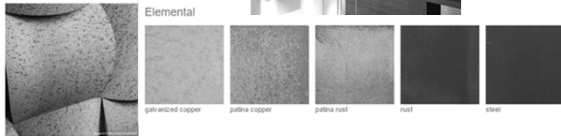
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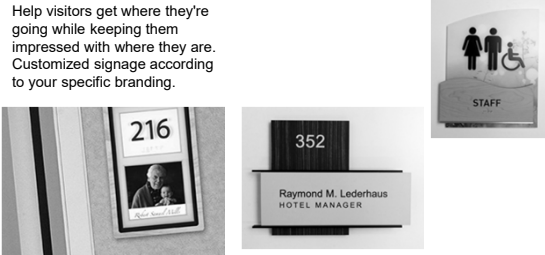
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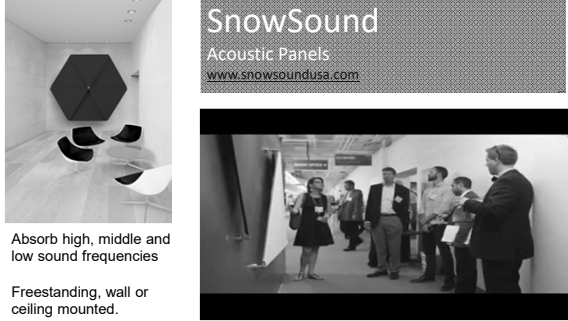


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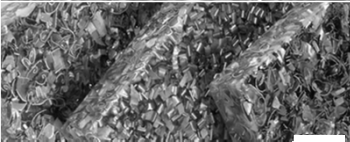
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**PaperStone**  
Sustainable Composite Surfaces

# PaperStone

Recycled Countertops  
[www.paperstoneproducts.com](http://www.paperstoneproducts.com)



- Strong and tough.
- Steel-like strength in span
- Stone-like beauty
- Can be worked like fine hardwoods.
- Innovative and cost competitive.
- Recommended for residential kitchens, baths and many commercial uses
- NFS certified and excellent as restaurant food preparation surface

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# Materials: Paint

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**SHERWIN-WILLIAMS**

# Sherwin-Williams

Anti-Graffiti Coating  
[www.Sherwin-Williams.com](http://www.Sherwin-Williams.com)

- Excellent graffiti resistance
- Excellent clean ability with either water power-washing, or solvent wipe
- UV resistance
- Excellent adhesion

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**SHERWIN-WILLIAMS**

# Sherwin-Williams

Odor Reducing Paint  
[www.Sherwin-Williams.com](http://www.Sherwin-Williams.com)



- Enhanced with formaldehyde reducing technology to promote better indoor air quality.
- Imagine painting locker rooms and male dorms with it...
- Odor-eliminating technology so rooms stay fresher, longer.
- Contains anti-microbial properties to resist mildew.
- Withstands frequent washings

\*Website: <http://www.sherwin-williams.com/architects/offerings/designer/odor-reducing-paint-and-color-technology/see-also/enhanced-harmony.html>

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WolfGordon

**Wolf Gordon**  
Wink Paint  
[www.wolfgordon.com/wink](http://www.wolfgordon.com/wink)

- Wink costs significantly less per square foot than whiteboards
- Use micro-fiber cloth to erase
- Can apply to white walls, color walls, metal, WolfGordon wood, and wall coverings.
- Wink provides a durable, long-lasting surface that wipes clean, resists common marks, and holds up to daily wear.

\*Website: <http://www.wolfgordon.com/wink/index.html>



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WolfGordon

**Wolf Gordon**  
Wink Paint  
[www.wolfgordon.com/wink](http://www.wolfgordon.com/wink)

- Beyond the workplace, Wink enhances wall functionality in restaurants, recreational facilities, healthcare environments, schools and universities, and home.
- Wink is virtually odorless – the installation area does not need to be cordoned off due to fumes or foul odor.
- Wink has a lower VOC content than competitive formulas, making it the environmentally safest product in its class.

\*Website: <http://www.wolfgordon.com/wink/index.html>



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**Materials: Light**

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**RAB**

**RAB**  
LED Downlighting  
[www.rabweb.com](http://www.rabweb.com)

- Low profile
- Absolutely natural white lighting
- Dimming abilities
- Can be installed in wet environments
- Easy install connectors and brackets
- Huge energy savings
- 100,000+ hour lifespan

\*Website: <http://www.rabweb.com/led-recessed-downlights.php>



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**DigitalSpeck Lighting**  
by Manning

**DigitalSpeck Lighting**  
Planar Stretch Sconce  
[www.digitalspeck.com](http://www.digitalspeck.com)

- Low profile
- Absolutely natural white lighting
- Dimming abilities
- Huge energy savings
- 50,000+ hour lifespan



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**DigitalSpeck Lighting**  
by Manning

**DigitalSpeck Lighting**  
Planar Vertical Core Pendant  
[www.digitalspeck.com](http://www.digitalspeck.com)

- 138 Watts of LED illuminate the acrylic panels
- Each panel contains an embedded optical pattern that tightly controls the light path to maximize output and minimize glare
- The optional four down light array features additional LED lights
- Dimming abilities
- 50,000+ hour lifespan



\*Website: <http://www.rabweb.com/led-recessed-downlights.php>

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**DigitalSpeck Lighting**  
by Manning

**DigitalSpeck Lighting**  
Planar 2D Pendant  
[www.digitalspeck.com](http://www.digitalspeck.com)

- Each panel contains an embedded optical pattern that tightly controls the light path to maximize output and minimize glare
- The opposing horizontal and vertical aluminum extrusions contain the LED components to illuminate each panel.
- Dimming abilities
- 50, 000+ hour lifespan

\*Website: <http://www.rabweb.com/led-recessed-downlights.php>



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**DigitalSpeck Lighting**  
by Manning

**DigitalSpeck Lighting**  
Planar Horizontal Core Pendant  
[www.digitalspeck.com](http://www.digitalspeck.com)

- Each panel contains an embedded optical pattern that tightly controls the light path to maximize output and minimize glare
- The vertical aluminum extrusions contain the LED components to illuminate each panel with 8820 total lumens
- Down light optional
- Dimming abilities
- 50, 000+ hour lifespan

\*Website: <http://www.rabweb.com/led-recessed-downlights.php>



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**Spaces: Parking**

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**terrafirm enterprises**

**TerraFirm Enterprises**  
Permeable Pavers  
[www.terrafirmenterprises.com](http://www.terrafirmenterprises.com)

- Permeable paving (also known as pervious or porous pavement enables the flow of water through it.
- This allows stormwater to filter through the soil below the paved surface, preventing the numerous environmental issues associated with water runoff.
- EcoGrid/EcoRaster provides a "green" asphalt alternative and an effective method of erosion control

\*Website: <http://www.terrafirmenterprises.com/>



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**POROUS TECHNOLOGIES, LLC**  
When it Rains...it's Porous™  
© Blue Moon Stone, North Yarmouth, ME 04067  
877.271.6696

**Porous Technologies**  
StormCrete  
[www.storm-crete.com](http://www.storm-crete.com)

- Precast, precured
- Removable and reusable
- Lightweight and installed w/ small equipment
- Reduces run-off and maintenance
- Can be retrofitted into existing installations

\*Website: <http://www.storm-crete.com/>



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**Spaces: Stadiums**

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**FieldTurf**  
A Nemetsch Sports Company

THE ULTIMATE SURFACE EXPERIENCE

### Field Turf CoolPlay

[www.fieldturf.com](http://www.fieldturf.com)

- 'CoolPlay' turf lowers turf temperatures by up to 35F compared to sand/rubber fills
- Uses a high-performance cork infill system for the top layer
- High performance rubber infill still used in lower layers (to ensure quality and injury prevention)

\*Website: <http://www.fieldturf.com/en/artificial-turf/artificial-turf>  
[www.fieldturf.com/en/artificial-turf/artificial-turf](http://www.fieldturf.com/en/artificial-turf/artificial-turf)



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**tooshlights™**  
know where to go

### Tooshlights

[www.tooshlights.com](http://www.tooshlights.com)

- Eliminate that awkward look under the stall...
- Even has an iPhone application! You can check bathroom availability from your phone.
- Improves traffic flow (maximizing limited space/limited bathrooms)

• WW

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**BACKYARD THEATER SYSTEMS**

### Why rent outdoor theaters?

[www.backyardtheatersystems.com](http://www.backyardtheatersystems.com)

- Outdoor movies are increasingly popular with residence life programming
- By dedicating a space for this activity, ongoing costs and environmental impact can be reduced



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**CSEED**  
THE UNFOLDING VISION

### There when you want it

[www.cseed.tv](http://www.cseed.tv)

- The TV that raises from the ground, unfolds and rotates to the perfect viewing angle



00:02    00:15    00:22    00:40

Video

<https://youtu.be/oJH6PVo3go>

<https://youtu.be/5PmwDbkaeJs>



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**CarrierClass**  
Green Infrastructure

### Carrier Class Solar Picnic Tables

[www.ccgogreen.com](http://www.ccgogreen.com)

- Students/Faculty can charge their phones and laptops outside
- Encourage outdoor meetings/study groups

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# Spaces: Outdoor Dining

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**Shade Systems**  
Sunshades/Sunsails  
[www.shadesystemsinc.com](http://www.shadesystemsinc.com)

## Shade Systems

Sunshades/Sunsails  
[www.shadesystemsinc.com](http://www.shadesystemsinc.com)

- Custom collegiate colors
- More durable than umbrellas...can withstand hurricanes
- Enables students to use outdoor spaces originally too sunny/hot
- Protects against UVA/UVB




Hillsborough Community College

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**Eclipse Shading Systems**  
Automated Retractable Awnings  
[www.eclipseawning.com](http://www.eclipseawning.com)

## Eclipse Shading Systems

Automated Retractable Awnings  
[www.eclipseawning.com](http://www.eclipseawning.com)

- Low-profile
- Automated, switch, or manual operation
- Enables students to use outdoor spaces originally too sunny/hot
- Protects against UVA/UVB



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**Custom Truck Builders**  
Food Trucks  
[www.customfoodtruckbuilders.com](http://www.customfoodtruckbuilders.com)

## Custom Truck Builders

Food Trucks  
[www.customfoodtruckbuilders.com](http://www.customfoodtruckbuilders.com)

- University-owned food trucks offer additional food revenue
- Convenient for catering events
- Mobile deployment based on events on campus
- Requires less manpower to operate than traditional restaurants



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**Banquet Tables**  
[www.banquettables.pro](http://www.banquettables.pro)

## Banquet Tables Pro

Breakdown Banquet Tables  
[www.banquettablespro.com](http://www.banquettablespro.com)

- Setup and tear-down cocktail tables in minutes
- Stores in a small closet



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# Solutions: Academics

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**Sedia Systems**  
Jump Seats  
[www.sediasystems.com](http://www.sediasystems.com)

## Sedia Systems

Jump Seats  
[www.sediasystems.com](http://www.sediasystems.com)

- Compact auditorium chair that is ideal for auditoriums, theaters and public assembly areas.
- Folding to less than four inches thick when not in use, the compact seat allows for the maximum amount of people in the minimum amount of space.
- Supports up to 600 pounds



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**MakerBot INDUSTRIES**

**MakerBot Industries**  
3D Printer  
[www.makerbot.com](http://www.makerbot.com)

- By 2020 it will be a \$8.41 billion dollar business.
- In York, England, a Wal-Mart Store affiliate, Asda, is testing new digital scanning and printing services. Customers themselves have the opportunity to be scanned and transformed into a digital model and converted into an 8 inch ceramic figurine in about two minutes!

\*Website: <http://www.makerbot.com/>





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**All Steel Office Clubhouse**  
[www.allsteeloffice.com](http://www.allsteeloffice.com)

Clubhouse is the newest addition to Allsteel's Gather collection of furniture. Like its sister products, Clubhouse addresses the modern workplace's need for flexibility in an open office design. By forming – not filling – a room, it creates a secluded space within any place.

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**All Steel Office Clubhouse**  
[www.allsteeloffice.com](http://www.allsteeloffice.com)

**Product Benefits**

- **Seclusion**  
Clubhouse's unique architectural aesthetic creates a space within a space and communicates unavailability by forming a room instead of simply filling a room.
- **Surfaces**  
Media wall and table support content sharing. Generous armrest/consols provide space for ancillary devices and power.
- **Seating**  
Thoughtfully designed seating provides additional support and comfort for extended use.
- **Day 2 Support**  
Flexible design eliminates the need to interface with HVAC, sprinklers, or ceilings allowing Clubhouse to be moved or installed post construction.




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**VIA Seating Legola**  
[www.viaseating.com](http://www.viaseating.com)

Legola® is a modular system of upholstered seating and paneling for offices and public spaces that responds in full to the increasingly felt need to define, within broad open spaces, small and intimate environments where staff can discuss work, use the computer, or read in peace.




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**VIA Seating Legola**  
[www.viaseating.com](http://www.viaseating.com)

The various parts are completely interchangeable and give life to almost endless compositional options:

- 2 types of panels | linear and angular in 2 different heights
- 3 types of seats | single, double, pouf
- 2 types of backrests | armchair and sofa
- 2 types of shelves | angular and linear
- 4 accessories in varnished sheet metal | magazine racks, coffee table, shelf, hanger



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**KI MyPlace**  
[www.ki.com/myplace](http://www.ki.com/myplace)

Coming in 2017

MyPlace allows you to work, relax, learn, focus, socialize, and collaborate in environments tailored to your needs.

A simple, adaptive, configurable lounge system, MyPlace supports both private and open planning and serves as a backbone to accommodate a variety of work styles, from individual focus areas to open regenerative spaces.




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**KI MyPlace**  
[www.ki.com/myplace](http://www.ki.com/myplace)

Its flexibility creates areas for small, private group work but transforms easily into larger configurations for large group and lounge environments.



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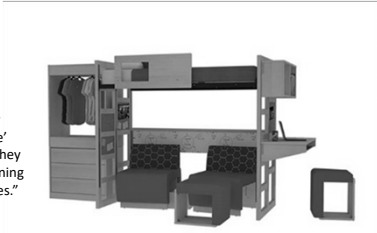
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**RT London**  
 Evolve  
[www.rtlondon.com](http://www.rtlondon.com)

Evolve is an adaptive room solution for today's university student – one who is tech savvy, focused on academic rigor, and values social networks

"After several years of research.. The resulting furniture solution provides students with an incredibly customizable and 'hackable' room environment which they can tailor to their own learning styles and social preferences."

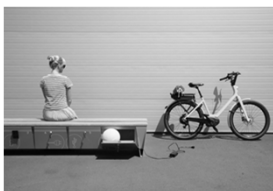


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**eBlocq**  
 Outdoor Charging Station  
<https://www.mmcite.com/en/products>



The wood-topped steel seat incorporates 6 illuminated, lockable storage compartments, each equipped with its own USB port for charging portable devices and a 230-volt socket for charging electric bikes. Locks can be activated with a key or an electronic passcode.



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**Legrand**  
 Outdoor Charging Station  
[www.Legrand.us](http://www.Legrand.us)



The Power Pedestal is ideal for areas that are already illuminated, such as outdoor dining areas. Shorter height enables use besides tables or as a lower-profile solution in landscaping. Available in both 2- and 3-gang configurations.



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**Legrand**  
 Outdoor Charging Station  
[www.Legrand.us](http://www.Legrand.us)



**Features and Benefits**

- 2- or 3-Gang Options
- Outdoor-Rated Construction
- Durable, Premium Finishes
- A/V & Communication Compatible
- Device Shelves
- Door Options



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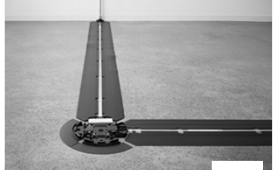
**SteelCase**  
 Thread - Portable Power Distribution  
[www.steelcase.com](http://www.steelcase.com)

People need technology- Technology needs power.

Common power issues in work places:

- Extension cords bring power to multiple users, but cords get messy and cluttered.
- Users are forced to plug their devices into hard-to-reach places.
- Open spaces, such as cafes, often become "dead zones." Mobile workers looking for flexible work spaces are only productive when near open outlets.
- Furniture with integrated power can't be placed in an open floor plan where there isn't a plug.
- Cords plugged in near walkways become tripping hazard.
- Open outlets get blocked by furniture systems, resulting in users climbing around and over furniture to plug in.


Thread - Power made simple.

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### SteelCase

Thread - Portable Power Distribution  
www.steelcase.com

Thread:

- Optimizes real estate
  - Ultra Thin
  - Have an open floor plan
  - Creates power in lounge areas
- Cost Effective:

900 sq ft room, 36 users, 3 circuits, 9 floor boxes

\$14,000 - \$16,000	\$6,000 - \$22,000	\$7,200 - \$25,000	\$4,900 (includes Power Hubs)
Raised Floor	Core Drilling	Trenching	Thread

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# Solutions: Wellness

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### Fit-Trail

Wellness/Fit Trails  
www.fittrail.com

- Encourage wellness/fitness activities using your existing paths
- Highly configurable, can integrate athletic department requirements

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### On Bike Share

Bike Share Infrastructure  
www.onbikeshare.com


- Fully automated.
- Lower costs than traditional "smart bikes"
- Students can lock the bike in areas without bike lock systems

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### Eldorado Climbing Walls

Pool Climbing Walls  
www.eldowalls.com

- Encourages use of pool facilities
- Increased safety (falling into water!)
- Can include waterfall features
- Custom designed for your facility




University of Colorado

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### Lithonia Lighting

LED Exit Lighting  
www.Lithonia.com

- High-abuse, cold weather ready (-40C)
- Tamperproof screws
- Bulb life of 10 years
- 90 Minute backup battery




\*Website:  
<http://www.lithonia.com/commercial/lvsseries.html#L141541D48>

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### Corbin Russwin


Multi-Entry Locks  
[www.corbinrusswin.com](http://www.corbinrusswin.com)


- Locks can be opened with PIN, Magnet, FOB, and Key
- Connects via wifi (for live entry lists and audit trail)
- Grade 1 Lock Security

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### Sargent


Panic Button Locks  
[www.sargentlock.com](http://www.sargentlock.com)


- RF Faculty/Staff FOB can lock the door from 75 feet away
- Panic button locks out all users except authorized authorities
- Connects via wifi (for live entry lists and audit trail)
- Grade 1 Lock Security

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**No Butts Bin Co.**  
*Better Ash & Trash Solutions*  
Est. 1991

### No Butts Bin Co.


Smoking Shelters  
[www.nobutts.com](http://www.nobutts.com)

- As more and more states (and campuses) ban indoor smoking, smoking shelters are crucial. They are getting more stylish by the day.
- Shelters help draw smokers away from your entry doors
- By having dedicated ash trays, they help ensure students throw cigarette butts in the ash tray and not your sidewalks

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### Dero

Veloport  
[www.dero.com](http://www.dero.com)

The Veloport is bike security at its best and is ideal for long-term bike parking applications:


- Transit hubs
- College campuses
- Government centers
- Airports.

The laser cut holes on the front and side panels not only provide a unique look, but help with ventilation and offer site lines for high security settings. The interior tray guides bikes into position and offers a second layer of defense against thieves.

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### Uponor

Outdoor Radiant Heating  
[www.uponor-usa.com](http://www.uponor-usa.com)

- Hydronic radiant systems aren't just for the indoors. Snow and ice melting, turf conditioning and permafrost prevention systems all use the same concept of circulating warm water or a water/glycol mixture through PEX tubing to keep exterior surfaces at a certain temperature.
- No more shoveling sidewalks!

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Snow and Ice Melting
Turf Conditioning
Permafrost

## Solutions: Sustainability

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**Tournesol Site Works**  
Green Walls  
[www.tournesolsiteworks.com](http://www.tournesolsiteworks.com)

- Grow-in typically takes 1-3 months prior to hanging.
- Modules are 100% post-consumer recycled polypropylene

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**INVENTABLES**  
Aluminum Foam  
[www.inventables.com](http://www.inventables.com)

- Strong, lightweight panels
- Composed of ceramics and recycled aluminum
- Extremely high melting point, flame spread grade of zero
- Recommended for areas out of reach/behind glass (bubbles can be popped)




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**What are these?**




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**LARSON CAMOUFLAGE**  
Antenna Camouflage  
[www.utilitycamo.com](http://www.utilitycamo.com)

- All of these are antennas
- RF Friendly




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**Aquabarrel**  
Rain Barrel Irrigation  
[www.aquabarrel.com](http://www.aquabarrel.com)

- Pump rain barrels under pressure
- Saves water costs
- Sustainable
- Can integrate water supply with irrigation systems or hose




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**BioMason**  
BioMasonry  
[www.biomason.com](http://www.biomason.com)

- Uses bacteria to 'grow' bricks out of readily available materials such as sand
- "Green" alternative to traditional clay-fired bricks (which produce heavy amounts of CO2)
- Developed by an American professor in the UAE (lots of sand!)



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**BOXMAN STUDIOS**

**BoxMan Studios**  
Shipping Containers  
[www.boxmanstudios.com](http://www.boxmanstudios.com)

Shipping Containers Recycled...

- Versatile
- Sustainable
- Virtually indestructible
- Transportable



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**You can rent 'em too!**



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You can make student housing too!



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You can make student housing too!



Shipping container college dorms being assembled in Amsterdam.

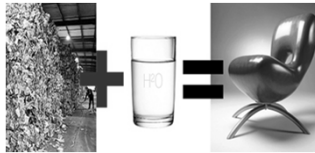
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ZeoForm  
Biodegradable Plastic  
[www.zeoform.com](http://www.zeoform.com)

\*Australian Company Zeoform has created a biodegradable plastic with nothing more than recycled paper waste and water – someday it could clad one of your projects.



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New Trend  
Go backwards



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Done.

Thank you!

Please feel free to ask questions or to meet with me.

Check out our website:  
[www.simsarchitects.com](http://www.simsarchitects.com)

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