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UNIVERSITY CAMPUS EXPANSION

NASHVILLE, TENNESSEE

At a major university residential expansion project in the Southeast, collaboration and cooperation among the construction management firm, window and door manufacturer, and installation contractor resulted in several stunning projects recreating the look of the surrounding century-old buildings. All totaled, Hope's Windows, Inc., supplied over 1,200 unique windows made from custom hot-rolled steel profiles and nearly 100 high traffic and fire-rated door assemblies made from 10 and 12 gauge cold-rolled steel.

According to Sean Farrell, senior project manager at Layton Construction, establishing collaborative relationships is key to successful construction projects. One of the best examples of this maxim is a multi-phase university project for which Layton Construction is serving as construction manager. Layton, part of the STO Building Group, is a nationally-ranked commercial contractor with ten offices around the United States. The firm specializes in healthcare, industrial, warehousing, and higher education projects. As construction manager, Layton hires the sub-contractors and manages and oversees the project as part of a team.



“Since we were building windows and doors to make a brand new college, we needed a company with the methodology to produce the product like it was done 100 years ago.”

— Sean Farrell, Sr Project Manager
Layton Construction

Hope's Brian Whalen, Vice President of Sales, acknowledges that the project was a real test of Hope's capabilities. He is especially proud that they Hope's was able to expedite the schedule even in the face of design changes and in the midst of the Covid-19 pandemic. The shop drawing approval process – including preparation of blueprints of windows and doors with all setting conditions, sizes, customized designs, and required testing – took longer than normal. Changes were made along the way that might have pushed back the delivery schedules for some, but Hope's made adjustments during the production process to deliver all materials on time. Whalen gave a nod to Joey Riggan and the team at Alexander Metals, the frame and glass installer team, saying the overall project went extremely smoothly once the frames were on site.

Says Whalen, “It was a fantastic collaboration among all the parties. Hope's worked closely as the manufacturer to fulfill the architect's design vision, and then the installer worked closely with us to make sure everything was installed executed properly.”

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Hope's® Windows, Inc., is a business based on 100 percent customized work design and manufacturing, Hope's provides a specialized skillset to assist clients in design and production of unique window and door assemblies. Meeting the expectations of Layton Construction in combination with the aesthetic vision of the client and architect was definitely a challenge. The overall experience was a testament to the quality standards of the university and an honor to be a part of. In business since 1912, Hope's had the global experience to make it happen.

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DIFFERENT MOWER OPTIONS IMPROVE LOOKS WHILE INCREASING PRODUCTIVITY

BY SCOTT SWEENEY

Rolling hills, grand buildings, lush grass and stately trees are what everyone thinks about when the vision of a college campus comes to mind: students studying in a small group on the quad or gathered on a hill to watch a baseball game. Behind the scenes, though, maintaining picture-perfect lawns is harder than it looks.



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SELECTING THE BEST COMMERCIAL BIKE RACK

BY SAM SIMON

There are a lot of commercial bike racks to choose from, but not all bike racks are created equal. There are key features that make certain types of bike racks better options for securing and properly supporting bicycles than others.



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BY ED BAUER

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ENHANCING CAMPUS AESTHETICS WITH EXTERIOR DOORS AND WINDOWS

BY SCOTT SWEENEY

Exterior windows and doors are a key component of any building's aesthetics. Here's how top universities are incorporating new windows and doors to enhance beauty and functionality without compromising their campuses' unique architectural style.





DIFFERENT MOWER OPTIONS IMPROVE LOOKS WHILE INCREASING PRODUCTIVITY

by Scott Sweeney

Rolling hills, grand buildings, lush grass and stately trees are what everyone thinks about when the vision of a college campus comes to mind: students studying in a small group on a blanket laid out on the quad or gathered on a hill to watch a baseball game.

The grass is always green and cut smoothly. Everyone thinks about those images, but few think about the work involved in creating these pristine grounds, aside from the team who work to make the grounds look beautiful and keep them that way. When it comes to taking care of turf that is hard to mow or an area that really needs a makeover, there are a couple of interesting pieces of equipment that address those needs.

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Hillsides and Pond Banks

Hillsides are traditionally hard areas to mow if they are too steep for riding or traditional walk-behind mowers. Sacrificing safety to try and mow slopes with a ride-on can lead to damaged machines and injured workers. The traditional remedy is sending out a group of workers with a fleet of string trimmers and living with the patchwork look that is generally the result. However, there is a solution that is over 40 years old but still largely unknown in the United States—hover mowers. As the name implies, this is a mower that hovers over the ground so the operator can swing the machine side to side on slopes and cover large areas of ground leaving a smooth, mower-finish behind.

How They Work

Hover mowers of all makes and sizes work in the same basic manner: a one-sided impeller under a solid deck spins, which sucks air in from the space between the engine and the

deck, and then a large portion of the air is pushed out underneath from the outer edge. This lifts the mower off the ground and allows for free movement. The air that is not in the flow going out from under the deck is trapped under the swinging blades; as it tries to reach the faster moving air above, it lifts the grass for a smooth mower like cut.

Shapes and Sizes

There are only a few manufacturers of hover mowers world-wide—Air Force Hover Mowers, Eastman Hover Mowers and Toro—and these offer sizes from 16” wide to 21” wide. The 19” machines are the most popular and generally offer the best power to weight ratios available. The power to weight ratio is important because if the hover mower is using all of the engine power just to get the machine to float, then that leaves very little power left over for cutting. The best formula for finding which machine floats the best and offers the most

power is to find the largest engine on the lightest deck with the tallest impeller. The taller the impeller, the more air flow and the better the machine will operate. It is also important to look for strong handles, reinforced handles and engine mounts.

Safety and Operation

Operating any piece of equipment on a hillside increases the need for proper safety awareness, and hover mowers are no different. The first step is to insure that all workers have the right protective footwear as well as eye and ear protection. All modern hover mowers are equipped with Operator Presence Control handles, and the larger machines have blade breaks. Also, some machines use a flail-style swing blade that gives a bar-blade-like cut while keeping operator safety at the forefront.

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Striped turf is incredibly eye catching and the fastest way to differentiate your field from others.

engines that work in this application. These engines are actually mounted in reverse so that when the hover mower is sent down a hill, the oil flows into the main sump to

provide ongoing lubrication. The fuel tank is below the carburetor, but a mechanical fuel pump solves that problem.

Uses

Perhaps the best thing about hover mowers is that they can do most anything a traditional walk-behind mower can do (except bag grass) and many things that a traditional mower can't do. Hover mowers are excellent for hillsides of any type and also lake and/or pond banks, drainage areas, getting under structures or between buildings/shrubs/fence lines as well as mowing areas that are too wet for traditional wheeled mowers. Since the hover mower floats across the top of the turf, it leaves no wheel-marks behind. Hover mowers were first introduced to the market back in the early 1970's and have gone through only a few changes since their inception. Materials, components, and handles have all changed, but the physics of how they work have always stayed the same.

So, take a step back and a step forward all at the same time, and look to the hover mower to save time, increase efficiency and make a hard job easier.

Lipstick on an Infield?

Switching gears from tackling a tough job to dressing up the drab: How can you differentiate your field from the others in your league in the limited time and resources that all sports field managers fight? How can you dress up a particular area for an important event, like graduation, an important alumni event or perhaps Homecoming? Most of the time there is just enough energy and budget to make sure the field and facilities are playable and certain areas are just presentable.

Looking Good

Luckily, there is a machine that allows for dressing up the infield and any other areas that need a little extra attention in a fast and



easy manner. It also combines the dramatic striped look usually reserved for reel mower (expensive and hard to maintain) with the lower cost and ease of use and maintenance from a rotary.

The mower with these capabilities is called a rear roller rotary mower. Remember how the mullet hair cut was all business up front and a party in the back? A rear roller rotary looks like a regular wheeled mower up front but hides a stripe-inducing roller under the deck in the back.

How They Work

By designing a rotary mower around the rear roller, designers made this feature an integral part of the machine instead of an after-market accessory. The principle is an integrated rear roller designed to fit inside the footprint of the deck allowing the cutting blade to get closer to the ground, and angling the blade slightly keeps the blade from making swirling marks when cutting at that lower height. Striping is traditionally caused by the large roller underneath a reel mower—a machine that gives a great cut and stripe but is expensive to purchase and requires a lot of maintenance. However, the Rear Roller Rotary requires no more maintenance than a traditional wheeled rotary mower and generally a lot less than entry-level reel mowers.

Who Makes Them?

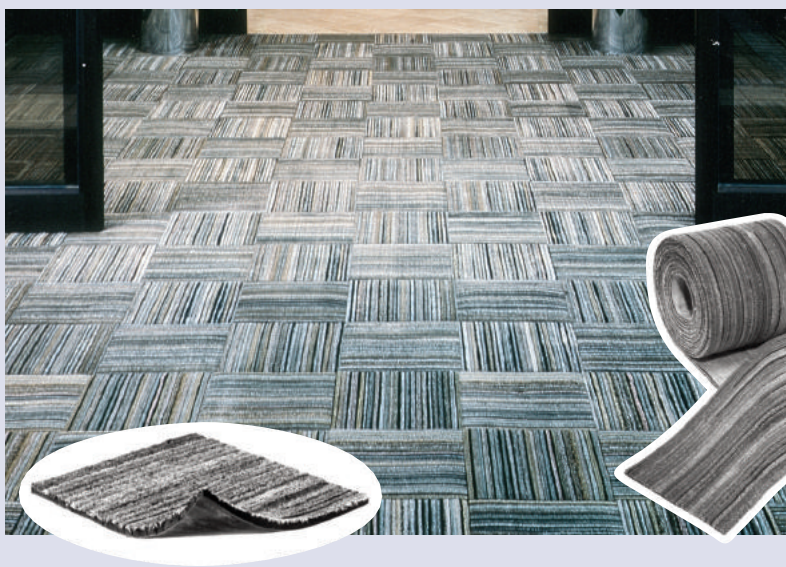
There are two manufacturers now producing a walk-behind rotary mower with a built-in rear roller for striping and height of cut as low as 1/2". While there are some differences between the two manufacturers (Masport and Toro), both operate on the same principle. Both machines offer height of cut between 1/2" and 2 1/2" with single handle height of cut adjustment, and both are powered by a 190cc Briggs and Stratton engine. There are cost and feature differences, so just find out if the Masport Rotarola or the Toro Pro Stripe is right for the job on your campus.

Differentiate Your Field

Striped turf is incredibly eye catching and the fastest way to differentiate your field from others. It doesn't take much longer to mow with these machines than any other walk behind, and yet it really changes the look.

ABOUT THE AUTHOR: Scott Sweeney has an MBA from Embry-Riddle Aeronautical University. Sweeney owns Seago, an international distribution organization dealing in specialized turf equipment. Sweeney oversees all aspects of the business from sales and marketing to new product development.

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A row of silver commercial bike racks is shown in a park setting. The racks are in the foreground, slightly out of focus, and recede into the distance. The background features a green lawn, trees, and a paved path.

SELECTING THE BEST COMMERCIAL BIKE RACK

BY SAM SIMON

There are a lot of commercial bike racks to choose from, but not all bike racks are created equal. There are key features that make certain types of bike racks better options for securing and properly supporting bicycles than others.

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Features to Look For

Bike racks come in many shapes and sizes, but there are a few common features that a bike rack should have to make bike parking the most secure and accessible.

Make sure the bike rack you select meets these criteria:

It's important that a bike rack support the frame at least two different spots horizontally. This helps keep the bicycle from falling over. Some racks create two points of contact but are directly above each other. Other racks only allow for one point of contact. This makes it more common for the front wheel to turn and cause the bicycle to fall. This can damage the bicycle and create a hazard when the bicycle is lying on the ground.

The rack should also be able to support bicycles without a diamond-shaped frame or a horizontal top tube. Some women's

specific design or step-through frames would be examples. You should be able to lock the frame and wheel to the Bike Rack. It is quick and very easy to remove the wheels of most bicycles. This is why both the frame and at least one wheel need to be secured to a bike rack. If only the wheel can be locked up, many thieves will remove the frame from the wheel and take the rest of the bike.

Mounting Bike Racks Securely to the Ground

How a bike rack is mounted to the ground is critical. If a bike rack can be dislodged from the surface it becomes useless. In-ground mounts are the most secure. With this installation method, the bike rack is set in place and concrete is poured, encasing the legs of the rack in concrete.

Surface mounts are a good option for racks being installed on existing concrete surfaces. Racks with this mounting option have flange plates with mounting holes. Anchors are inserted in the holes and adhere the rack to an existing concrete pad. This is not a viable option for installing a bike rack on asphalt or pavers.

Rail mounts are more suitable solutions for existing surfaces of concrete, asphalt or pavers. These can then be anchored to the surface or left freestanding. Freestanding racks offer less security. These would be best used where there is additional security—like fenced-in or actively monitored areas.

The Bike Rack Should Resist Cutting, Bending, or Deformation

The bike rack itself can be attacked by thieves to access locked bikes. A good bike rack should resist cutting, bending or deformation by common hand tools such as bolt or pipe cutters, wrenches and pry bars.

These items are commonly used by thieves as they can easily be carried and concealed under clothes and in bags.

To make the rack the most secure, diameter and shape of the tube are the primary factors to consider. The greater the diameter of tube, the harder it will be to bend or cut. A tube diameter of 2 3/8" is recommended. Minimally, the tube should be 1 7/8" in diameter. A square tube shape will more easily defeat common cutting tools carried by thieves as compared to round tubing.

Aesthetics

When it comes down to it, a bike rack that properly supports and secures a bike may only be a thing of beauty to users of bike racks. However, there are options to enhance the aesthetics of a bike rack.

A common choice for bike parking is galvanized steel bike racks. It has a dull, silver/grey color and slight texture. It is also the most durable and maintenance-free option.

Stainless steel has a silver/chrome look. It also has a higher resistance to cutting than galvanized. Stainless will require more upkeep and is the most expensive finish.

When looking to add a pop of color to a bike rack, you can select from a standard set of powder coat finishes. Custom colors are an option, but typically come at an additional cost. Powder coating will also provide your bike rack with an additional

level of protection from the environment. If none of this allows your campus to express its creativity, there are several customization options for bike racks.

Accessibility and Usability

When the elements of a bike rack don't meet the primary criteria, riders will typically secure their bike in unintended ways to achieve optimal security and stability. This can significantly reduce the number of bikes that can be parked as space on the rack and access to lockable elements is blocked.

Additionally, if racks are not spaced properly, bikes are forced to be parked too close together. This causes conflicts where handlebars overlap and can result in damage to bikes or injury to users as bikes are loaded into and removed from the rack.

Recognizable and Intuitive

If it's not apparent the bike rack is for parking bikes, it will go unused. It should also be intuitive for the rider to know how to properly secure their frame and wheel to the rack.

Additional Stability

While bike racks that offer two points of contact do a good job of keeping the bicycle upright, wheels can still turn. Bike racks that provide a well to hold the wheel AND two points of contact provide much greater stability for the bicycle.

With bike racks that have a wheel well, the two points of contact is a must. When "bike racks" have only a wheel well, it becomes very easy for the wheel to be bent.

Bike Racks to Avoid

Wheel-well only

The appeal of these bike racks is in the simplicity and relatively low cost. This is where their benefit ends. The main problem with these racks is that only the wheel can be secured, leaving bikes susceptible to theft.

The other main concern is the damage they can cause. Bikes in these racks are easily pushed over—inadvertently or not. This leads to bent wheels. Also, the openings are often not wide enough to receive wheels with larger widths, like mountain bikes, and can bend spokes.

WHEN IT COMES DOWN TO IT, A BIKE RACK THAT PROPERLY SUPPORTS AND SECURES A BIKE MAY ONLY BE A THING OF BEAUTY TO USERS OF BIKE RACKS. HOWEVER, THERE ARE OPTIONS TO ENHANCE THE AESTHETICS OF A BIKE RACK.

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Grid Bike Rack

This common style of bike rack is found in campus courtyards and in front of businesses because of their familiarity and perceived capacity for parking many bikes. Like wheel well only, grid-style bike racks share the same problems. When used as designed, it is not possible to secure the frame and wheel to the rack.

Bicycles are supported only by the bars of the rack at the wheel. Making it likely that bikes fall over and increasing the possibility of damage to the bike. There's a reason these racks are often referred to as wheel-benders.

The lack of desirable features from grid bike racks typically leads to an additional problem—unintended parking. To better support and secure bicycles at these racks,

bikes are often parked in unintended ways. The result is fewer bikes can be parked at the rack than what is advertised.



ABOUT THE AUTHOR: Sam Simon is the Digital Content Coordinator for Madrax Bicycle Security. He spends his days creating insightful and actionable content to help university executives, administrators and facility directors/planners tackle their bike parking and bike storage. Reach out to ssimon@madrax.com to let him know what you want to learn about next.

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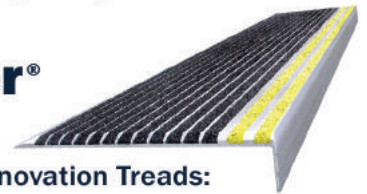


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WINTER GUARDIANS

Nurturing Campus Landscapes for a Flourishing Spring

BY ED BAUER

On college campuses, where the changing seasons create a beautiful and ever-changing mosaic of colors and textures, winter presents a unique challenge for facility managers. As the autumn leaves fall and temperatures plummet, the stewardship of campus landscapes becomes a delicate dance between preservation and preparation.

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In this in-depth exploration, we delve into the intricate strategies employed by facility managers across diverse regions, each grappling with its own winter nuances. From the snow-laden expanses of the north to the milder climates of the south, the goal remains the same: nurturing the campus grounds through winter to unveil a spectacular springtime revival.

Understanding Regional Variations

The tasks that come with preparing landscaping for winter are hardly one-size-fits-all. The season looks dramatically different depending on location, presenting different challenges and the need for innovative solutions.

In the northern reaches of the country, where winter is synonymous with snow-laden landscapes and freezing temperatures, facility managers face a distinctive set of challenges. The primary focus here is on snow and ice management, and heavy-duty snow removal equipment, plows, and de-icing agents are essential

tools. Snow fences are strategically deployed to manage accumulation, while cold-tolerant plant varieties are carefully selected to withstand the harsh winter conditions. Innovative approaches such as heated walkways and temporary structures to shield vulnerable plants reflect the adaptability and resourcefulness required in these regions.

Midwestern campuses, characterized by a mix of snow and fluctuating temperatures, demand a nuanced approach to winter landscaping. Facility managers in these regions lean towards winter-hardy plant selections, including evergreen trees and hardy perennials. They employ advanced techniques such as windbreaks to protect vulnerable areas from harsh winds, and snowmelt systems are integrated into high-traffic zones. The delicate balance between snow management and plant protection requires a dynamic and responsive strategy, showcasing the expertise of facility managers in adapting to ever-changing winter conditions.

In the southern regions, winter brings milder temperatures but introduces a different set of challenges, including temperature fluctuations and occasional cold snaps. Here, facility managers focus on winter irrigation to counteract potential drought-like conditions. Selecting plants that can withstand both chilly nights and mild daytime temperatures is crucial. Mulching, a practice often associated with colder climates, is still employed to regulate soil temperature and moisture. The emphasis shifts to maintaining overall plant health and preparing the landscape for the swift transition into spring.

A Winter Landscape Checklist

Other winter landscape tasks are more universal, including the need for strategic pruning and applying mulch. In some parts of the country, strategic storage of snow is another consideration. Here are a few of the ways facility managers protect landscaping while also planning for the arrival of spring.

Pruning for Prosperity:

Winter pruning is critical to maintaining a healthy and aesthetically pleasing campus landscape. Beyond the visual appeal, pruning plays a pivotal role in

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stimulating spring growth. Facility managers assess each plant species, applying customized pruning techniques to encourage resilience and lush foliage when warmer days arrive. The timing and precision of pruning become an art, balancing the need for rejuvenation with the protection of vulnerable plant parts.

Mulching as a Protective Blanket:

The application of mulch takes on a greater role during winter than mere weed suppression. In colder regions, the choice of mulching materials and the depth of application are carefully calibrated to insulate the soil, retain moisture, and foster a conducive environment for beneficial soil microorganisms. Facility managers in the midwestern and northern regions may opt for organic materials like straw or wood chips, while those in the south might use pine straw or hardwood mulch to cater to the unique needs of their landscapes.

Recalibrating Soil:

Winter becomes an opportune time for facility managers to delve into the foundational aspect of landscaping—soil health. Comprehensive soil testing is conducted to identify nutrient deficiencies, assess pH levels, and analyze soil structure. Armed with this knowledge, managers can implement targeted amendments, ranging from organic matter additions to the application of specific fertilizers. Cover cropping, a sustainable practice gaining popularity, aids in preventing erosion and enhancing soil fertility during the dormant winter months.

Eco-Friendly De-icing:

Traditionally, de-icing agents have been associated with environmental concerns, as they can adversely impact soil health and harm plant life. Forward-thinking facility managers are increasingly adopting eco-friendly alternatives to minimize these ecological footprints. Beet juice, a byproduct of the sugar beet industry, has gained traction as an effective de-icing solution that is less harmful to plants and soil. Sand is another eco-friendly option, providing traction without introducing harmful chemicals. Furthermore, some campuses are exploring innovative geothermal systems embedded in walkways to melt snow without compromising the surrounding landscape.

Snow Storage Considerations:

In regions with heavy snowfall, the strategic storage of snow becomes a logistical

challenge. Facility managers must identify suitable locations that balance accessibility, safety, and environmental impact. Designated snow storage areas, carefully selected and maintained, become temporary repositories for the winter precipitation. This approach ensures that when the thaw arrives, the gradual release of stored snow minimizes disruption to the campus landscape and infrastructure.

Communicating the Process:

Transparent communication lies at the heart of successful winter landscaping. Facility managers must convey the nuances of their winter maintenance practices to the campus community to foster understanding and collaboration. Newsletters, social media platforms, and campus forums serve as effective channels to share insights into the meticulous planning and effort invested in safeguarding the grounds. By demystifying the winterization process, facility managers empower the community to actively participate in the collective responsibility of preserving the campus landscape.

This also presents campuses with an opportunity to cultivate a culture of appreciation for the natural environment. Educational initiatives, workshops, and events centered around winter ecology and campus stewardship engage the campus community. Hands-on experiences, such as tree-planting initiatives and nature walks, instill a sense of connection and responsibility among students, faculty, and staff.

In winter guardianship, facility managers emerge as unsung heroes, meticulously navigating the needs in diverse regions to ensure the preservation and enhancement of campus landscapes. From the snow-covered expanses of the north to the temperate realms of the south, each region demands a tailored approach that reflects an intricate understanding of local climate nuances and ecological dynamics. The dedication and expertise of facility managers shine through as they orchestrate a symphony of practices, ranging from innovative snow management solutions to nurturing soil health and fostering community engagement.

As winter retreats and spring begins to unfurl its vibrant colors, the campus landscape stands as a testament to the meticulous planning and sustainable practices employed during the dormant months. Through region-specific strategies, the adoption of eco-friendly technologies, and a commitment to community involvement,

**AS WINTER RETREATS
AND SPRING BEGINS TO
UNFURL ITS VIBRANT
COLORS, THE CAMPUS
LANDSCAPE STANDS AS
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MONTHS**

facility managers ensure that the heart of the campus remains resilient, alive, and ready to embrace the promise of a flourishing spring. The fruits of successful winter guardianship extend beyond the beauty of the spring landscape to encompass a shared commitment to environmental stewardship and a campus culture that recognizes the interconnectedness of human activities and the natural world. In the cycle of seasons, facility managers stand as custodians, ensuring that the transition from winter's dormancy to spring's renewal is not only seamless but a breathtaking spectacle that captivates all who tread upon the hallowed grounds of the college campus.

ABOUT THE AUTHOR: Ed Bauer has been in publishing for over twenty years. In his early career years, he worked on the staff at Mount Union College and for the last twelve years as publisher and managing partner at Flaherty Media has been privileged to tour many private higher education campuses and talk with numerous staff members who manage these multiple building Facilities. He can be reached at ed@pupnmag.com.





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Enhancing **CAMPUS AESTHETICS**

WITH EXTERIOR DOORS AND WINDOWS

by David Vinson, PhD

Architecture is a visual art, one not so unlike a painting or sculpture. Architects, particularly those who set out to innovate and inspire, adopt a design process by which they arrange art elements to create a unified and pleasing whole. As such, the vocabulary traditionally applied in the creation or analysis of a painting also can be applied to architecture, and understanding architectural design is simplified if we think of the “façade”—or face—of a building much in the way we do a painting.

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There exists, of course, an obvious difference between a building and a painting. A building is designed foremost so that it can be occupied, and its design elements, whether they are intended to be beautiful or not, must abide by safety standards. But there is no rule that states a functional building cannot also be beautiful, and the study of aesthetics in architecture allows us to look holistically at the combined effects of a building's shape, size, color, unity, proportion, symmetry, and context, among numerous other design elements.

Exterior windows and doors are a key component of any building's aesthetics. Imagine a beautiful home, but one equipped with a shoddy door. A single design element on the "face" of the home can detract from the whole, thereby hindering its curb appeal. The same can be said of windows—a home (or any other building) can be transformed in look and feel by windows designed to let in more natural light. A window easily opened can create ventilation that cools a building; it can likewise reduce energy cost and usage, or even thwart potentially contaminated airflow in busy indoor spaces—the latter of which is vital given the challenges we each face amidst the Covid-19 pandemic. Exterior doors and windows can also make a difference in keeping occupants safe from intruders.

With ongoing renovations and new projects at private universities and colleges around the country, institutions recognize the appeal of building exteriors to prospective and current students, in addition to faculty and staff. For this reason, it would be remiss to overlook the extent to which exterior doors and windows can enhance the aesthetic value of buildings on campus.

Hope's Windows, Inc.®— Two Campus-Based Case Studies

Formed in 1912, Hope's Windows, Inc.® has since become a preeminent manufacturer of custom steel and bronze windows, doors, and skylights—sometimes referred to as window and door systems. Each item manufactured by Hope's is 100% custom, and its doors, windows, and skylights can be tailored by designers and architects to align with just about any architectural style.

Hope's customized window and door systems have graced the campuses of colleges and universities for over 100 years, beginning with its very first order for Prudence Risley Hall at Cornell University. Recently, Hope's has embarked on several campus-based projects, one of which is the Chapel of the Resurrection at Valparaiso University (Valparaiso, IN). The chapel itself is one of the largest collegiate chapels in the world,

the crown jewel of the 350-acre campus Hope's was hired to assist in the preservation project, and the company replaced nearly 1,000 individual windows. Installed were Hope's Jamestown175™ Series steel windows, and these were selected to precisely match the sightlines and colors of the original windows. The 24 original windows surrounding the chapel's nave were 58 feet in height and covered a combined surface of 16,700 square feet—and yet now they are both energy efficient and congruent with the historic integrity of the building. Moreover, each window was removed and replaced with fixed and operable Hope's® solid hot-rolled steel windows. These are strong enough to allow for the narrowest frame dimensions and maximum glass area, thereby producing the best possible views.

At Stanford University (Stanford, CA), one can locate the Institute for Economic Research Policy, which stands as another example of stellar, campus-based work by Hope's. The company's engineering and manufacturing capabilities were put to the test by a project that included a 3-story wall system, fire-rated and non-rated doors and windows, custom shapes, custom-engineered sub-frames, reinforced muntins (a strip of wood or metal separating and holding panes of glass in a window), and more—all to accommodate for high slope, seismic drift, windload, air, and water requirements. Hope's met each challenge and successfully contributed to a structure that will stand the test of time.

The Remarkable Durability of Hope's® Window and Door Systems

Whether by way of new construction, retrofit, or historic preservation, Hope's has demonstrated a commitment to crafting windows and doors that are made to last for a century or longer, and the company has done so while simultaneously providing timeless aesthetic appeal. Hope's solid steel and bronze windows and doors offer unmatched strength and performance, the thinnest sightlines of any fenestration material, monumental sizes, and design flexibility, plus energy efficiency and a long life cycle. The strength of Hope's solid hot-rolled steel can sustain incredible structural load requirements, which in turn enables the manufacturer to reach exact design requirements for monumental

openings in virtually unlimited scale, shapes, and configurations. Hope's manages all of this while also maintaining minimal sight-lines and maximum glass area—a distinct aesthetic that cannot be duplicated by other materials.

Hope's custom products are remarkably durable and wide-ranging in their utility, from hurricane and impact-rated windows and doors, to fire-rated window and door systems, and even to hot-rolled steel windows and doors with Thermal Evolution™ technology. Compare this life cycle to alternatives such as wood, vinyl, and aluminum, and it is evident that Hope's represents the best long-term investment, whether financially or environmentally.

The products at Hope's are also subjected to more independent, third-party testing and certifications than any other steel window and door company in the United States. As

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a reflection of the confidence that Hope's has in its products, the company provides detailed testing results from industry organizations such as the American Society for Testing and Materials (ASTM), the National Fenestration Rating Council (NFRC), the Florida Building Code, and many others. The testing addresses building code compliance,

hurricane and impact resistance, forced entry security, thermal performance, fire resistance, bullet resistance, finish performance, blast protection, in addition to air, water, and structural performance.

Regarding its finishing system, Hope's has developed in cooperation with top U.S. metallurgists and architectural coating

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Photo courtesy JMG INC.



suppliers the Hope's Power of 5™ Finishing System. The system has been engineered to ensure that windows and doors remain pristine and free from both corrosion and abrasion on a long-term basis, even in the harshest environments, whether inland or coastal. Hope's steel window and door coatings are lead-free, contain zero hazardous air pollutants (HAPs), and have ultra-low volatile organic compounds (VOCs).

Hope's Commitment to the Environment and to the Consumer's Well-Being

For universities and colleges that have embraced the culture of sustainability, be sure to note that Hope's creates energy-efficient windows and doors from sustainable materials. The steel windows and doors are made with hot-rolled steel sections that are 100% recycled (97% post-consumer, 3% post-industrial). Because Hope's cares about sustainability and energy efficiency, the company is glad to assist building owners and architects in fulfilling credits within the LEED Rating System.

Windows manufactured by Hope's allow for larger openings and narrower frames, which allow more natural daylight to fill a room. Natural light not only reduces energy consumption, but it promotes a

feeling of well-being and can positively impact the mood and productivity of building occupants. This would be especially beneficial in campus spaces such as classrooms, libraries, or dormitories.

Cleaner, Healthier, and More Versatile Learning Spaces

Hope's understands that the Covid-19 pandemic weighs heavily on the minds of students, faculty, and staff. As such, it offers a variety of window and door operating types, those such as projected and casement, top hung, single hung, and pivoted windows as well as swing, pivot, and sliding doors for ventilation. In a 30-foot by 30-foot classroom occupied by 25 students, the air should be replaced at least every 15 minutes, which equals an Air Changes per Hour (ACH) of 4. Simply opening windows is an easy way to improve ventilation. Researchers at Harvard University have found that opening the windows in a room just six inches can result in an ACH of 5 or more with clean, outdoor air.

In addition to its exterior windows and doors, Hope's offers custom designs of doors and walls of windows for interiors. These define and separate spaces without blocking natural light, thereby creating airy

and inviting indoor spaces. Hope's interior windows and doors have been installed to define public interior spaces (research labs, fitness facilities, and more) at institutions like MIT's School of Architecture and Planning.

The "Face" of Campus-Based Buildings

Our campus buildings should be a source of pride, not simply for their functionality or versatility, but also for their aesthetic value. The "face" of campus-based buildings matter to prospective students, just as they do to current students, faculty, and staff.

Exterior windows and doors are a key component of any building's outward appearance, but when also designed properly—as we have seen with Hope's windows and door systems—they can also transform a building's interior into spaces that are cleaner, healthier, and more energy efficient.



ABOUT THE AUTHOR: Dr. David

Vinson has a PhD in English with specializations in transatlantic literature and cultural studies. He is a committed scholar, teacher, and dad. If you ever meet David, avoid the subject of soccer. His fandom borders on the truly obnoxious.

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