

# WINGSPAN

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by American Buildings Company



THE BEST IN  
**ATHLETIC  
FACILITIES**





# American Buildings Company Sets The Industry Standards.

Indoor athletic facilities have become standard at high schools and universities and for local sports teams.

The advantages of having an indoor athletic facility are endless: from providing safety during inclement weather to providing the privacy of an enclosed facility needed to edge out the competition, an indoor practice space is a must in order to take training to the next level. Anything from a modest facility to the extravagant can be customized for a singular purpose or for a multi-use sports complex with American Buildings Company. An athletic facility of your dreams, infused with innovative technology, is economical and will allow your much needed funds to be utilized elsewhere. Adherence to building codes will provide the assurance of quality and safety while improved practice spaces will provide colleges and high schools a place to outperform the competition. As you take your first step in building success, you can count on the athletes being ready when it counts in a sports facility manufactured by American Buildings Company.

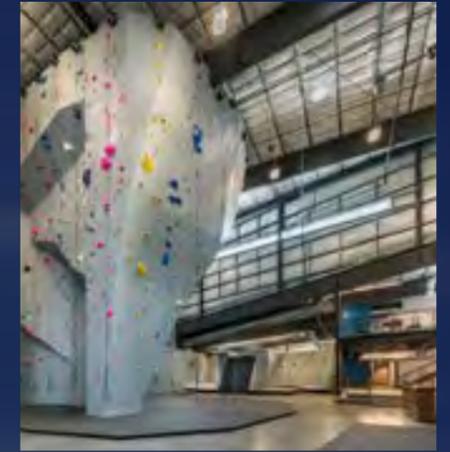
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# REACHING NEW HEIGHTS

THE MESA RIM CLIMBING & FITNESS CENTER IS A 24,000-SQUARE-FOOT RECREATIONAL FACILITY IN RENO, NEVADA, THAT FEATURES WORLD-CLASS INDOOR CLIMBING WALLS. THE ARTICULATED WALLS STRETCH TO 52 FEET ABOVE GROUND, GIVING CLIMBERS A TRUE SENSE OF VERTICALITY.

The structure's size and spatial layout create an awe-inspiring experience for everyone that enters the space, from first timers to seasoned mountain climbers. The intricate climbing walls are complemented with natural daylighting to support the expansive space in between the giant masses, giving occupants a unique awareness of the impressive scale the building possesses.



# DAYLIGHTING:

THE MOST BRILLIANT REASON  
TO CUT A HOLE IN YOUR ROOF.

## Harness the sun. Harvest the savings.

Electric lighting accounts for 30 to 60 percent of the total electrical energy consumption in commercial buildings. For many institutional and commercial buildings, strategic daylighting can reduce total energy costs by as much as one-third. By generating waste heat, electric lighting adds to the load imposed on a building's mechanical cooling equipment, all while producing greenhouse gases.

Daylighting is the controlled admission of natural sunlight into a space via windows and skylights, coupled with smart responsive energy-efficient LED lighting. Proper daylighting requires three main components: mounted roof curbs, modern prismatic skylights and LED lighting with intelligent controls.



## Skylights:

The first component of an effective daylighting system is the use of modern prismatic skylights mounted on high quality roof curbs designed specifically for metal building roofing systems.

Prismatic skylights transmit more light than conventional skylights, while diffusing 100% of incoming rays. The result is an inviting,

well-lit environment without any glare, hotspots or UV damage to merchandise or furnishings.

And, it's a lot easier than you think. Depending on the type of building you have, you only need to devote 2-5% of your roof area to skylights in order to achieve adequate levels of natural light. With properly installed roof curbs and skylights, you are only one step away from significant energy savings.



## Lighting Controls:

The last step is the implementation of smart energy efficient lighting with smart (intelligent) lighting controls. Keep in mind that skylights themselves do not save energy – it's the automatic lighting controls that dim or turn lights off, when there is enough lighting provided by the sun and electric lighting is not needed, that save the money.

LED is the most energy efficient lighting technology available today – with some fixtures lasting 12 years or more. But to really cut down on your energy consumption, you need to install smart lighting controls to go along with your LED lights. Think of it as LED lighting with a brain.



Before skylights installation

Roof cut-ins during installation

After skylights installation (no lights on)

# A FEAT OF INGENUITY

In January 2015, the Ensley Athletic Center at Syracuse University opened. As an effort to attract top-notch athletes and ensure continued success for Orange athletics, the latest major facility investment is located near Manley Field House and provides a state-of-the-art multisports training structure.

Many Orange programs, including the football team's spring practices, men and women's lacrosse

practices, as well as off-season exercises by other teams, could not happen without this incredible facility investment.

An expansive 7,600-square-foot entry pavilion welcomes guests into the facility; provides additional meeting space, as well as team and officials' rooms, and amenities for its players, potential recruits and staff.

The 87,000-square-foot center features a full 120-yard field lined

with an artificial turf surface for football and lacrosse. Named on behalf of Cliff Ensley, a walk-on who earned a football scholarship and became a three-sport standout at Syracuse in the late 1960s, the Athletic Center rivals Ensley's excellence. Accommodating for multisports use, the facility is especially crucial for Syracuse's lacrosse, soccer, field hockey and football teams during the

blustery upstate New York winter weather. The 65-foot roof allows for a variety of activities, important to many sports, including passing and kicking. The roof also features a special alternating dormer system that lets in natural light. The daylighting system provides a well-lit space for practice and matches the conditions that players compete under in the Carrier Dome on game days.



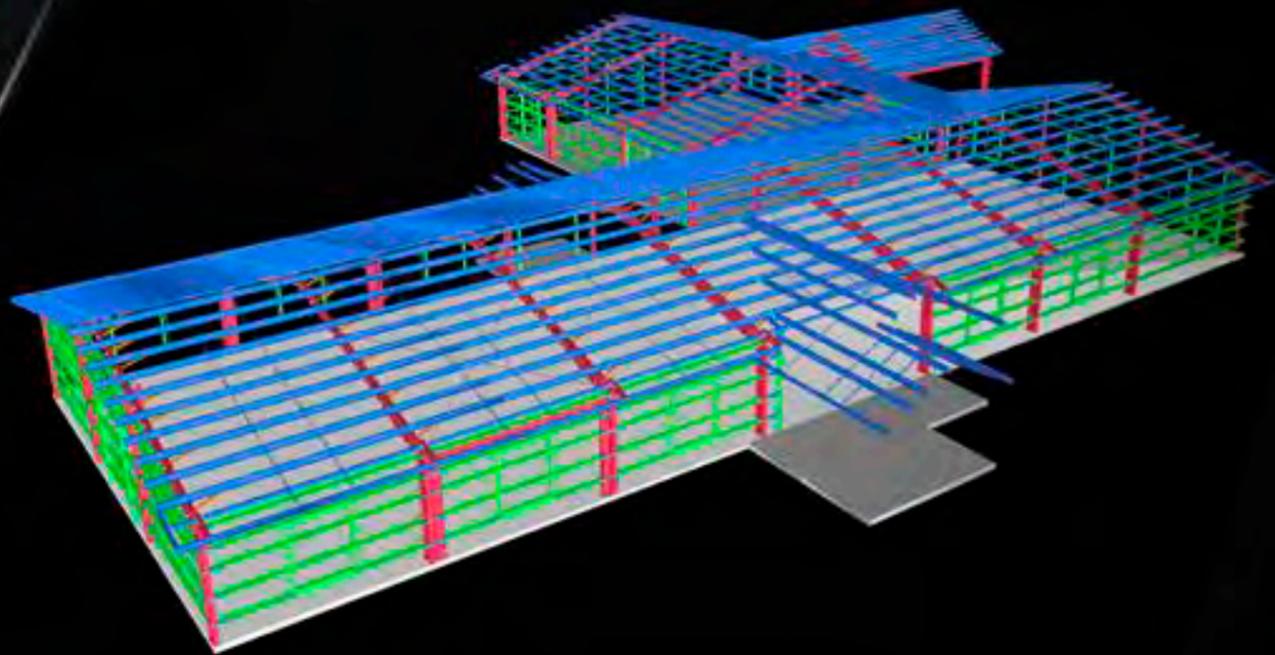
The exterior features a plaza with statues commemorating football players that wore the #44 jersey: Jim Brown, Floyd Little and Ernie Davis.



The Ensley Athletic Center features a full 120-yard field with a FieldTurf surface lined for football and lacrosse.



The BIM process produces a digital prototype of your project, allowing you to build it virtually before building it in reality.



### What is BIM?

Providing powerful value, Building Information Modeling, or BIM, is driving an unparalleled revolution in the construction industry using 3D digital modeling software from Tekla®. ABC is the first manufacturer to detail 100 percent of its projects using BIM 3D modeling as standard. Taking BIM a step further, ABC has worked to create high-definition BIM in LOD 400 that shows details and connections including bolting, anchoring and wall and roof panels. You can now get a BIM model for your entire athletic facility shell from one source. By using 3D, real-time, dynamic building modeling software to increase productivity in building design and construction, the process produces the Building Information Model.

Unlike past 3D innovations in the building industry, BIM is more than a conceptual modeling tool. BIM encompasses building geometry, spatial relationships,

the geographic information, and the quantities and properties of building components. When the modeling software is used by manufacturers and principals involved in a building project, the resulting BIM is usable for fabrication. It involves ground-up reality rather than top-down theory.

### The Benefits of BIM

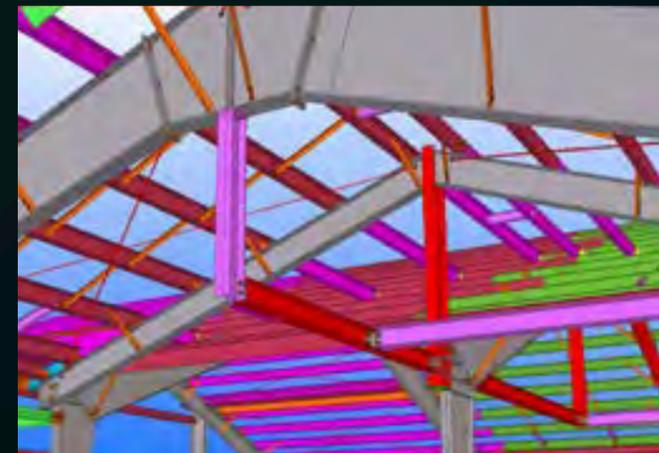
ABC is pairing its proven track record of quality and service with the future of 3D modeling to give builders, general contractors, engineers and architects an edge over competitors in the market. Providing you with a modeling system that can display an exact replica of your building leads to confidence and peace of mind throughout the life cycle of the project.

### From Virtual To Reality with Digital Prototyping

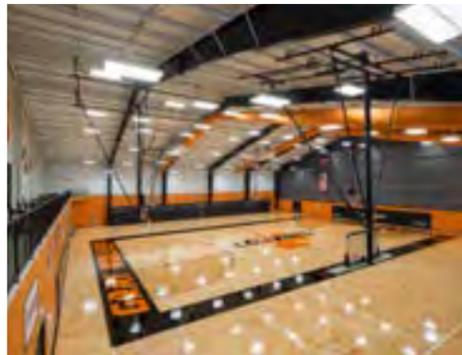
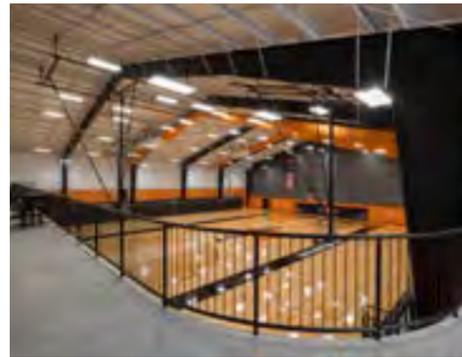
The BIM process produces a digital prototype of your project, allowing you to build it virtually before

building it in reality. A BIM project is not “drawn” in the traditional sense; rather, it’s “built” digitally as a database in BIM software. Instead of having to look at hundreds or thousands of separate drawings, schedules, specs and cut sheets for all the information on a particular element, all the pertinent information is built into the object in the BIM.

In addition, the building owner gets a digital copy of the completed project model that can be used for decades of operation and maintenance. Considering that 85% of the cost of a building over 30 years is in maintenance and operation, having a digital copy of the completed project, that includes all information related to the building, eases the task of ongoing maintenance. This is why virtually all governments require building contractors to use BIM for public construction.



The advanced capabilities of BIM 3D modeling allow you to view an exact replica of your building, meticulously rendered to show every single detail of the project – ensuring that what’s on-screen aligns with what’s being erected.



## WHERE AESTHETICS MEETS FUNCTIONALITY

Located in Sylvania, Ohio, the Russell J. Ebeid Recreation Center at Lourdes University opened in September of 2016.

The facility is home to the Gray Wolves basketball and volleyball teams. Spanning 49,000 square feet, the center features an NCAA regulation size basketball court, competition level volleyball courts, home and visiting locker rooms, a training room, a private suite

overlooking the main basketball court, a ticket office and a concession area. Lourdes University athletic coaches' offices are also located inside this indoor facility.

Spacious locker rooms for the home team and visitors, training rooms and a Gray Wolves suite provides ample space to get game-ready. Students can train just as hard as the athletes on campus in a cardiovascular room, aerobic

and spinning rooms, yoga room, free weight training room, and classrooms to accompany the athletic and fitness components.

In addition, the facility features a two-story atrium lobby with mezzanine level, and the spirit and donor walls that display the generosity of the university's sponsors.



## A NEST TO HELP THE WAR EAGLE SOAR

Completed in July of 2011, Auburn University's multi-purpose indoor practice facility is the site where training makes perfect.

Since completion, this practice facility has seen the Auburn Tigers win an Iron Bowl and an SEC Championship in addition to witnessing the team prepare to compete for a National Championship.

The American Buildings Company (ABC) Authorized Builder, Bailey Harris Construction, supplied the Rigid Frame pre-engineered metal building system that included a 179-foot radius roof with a peak height of 87 feet. The building also features reverse tapered columns,

segmented rafters, a skewed annex building and an ABC multi-rib roof deck.

The 100-yard football field in the practice facility allows Auburn's football, baseball, softball, soccer and track teams to safely practice indoors during inclement weather.

Construction on the 92,000-square-foot, \$12.5 million facility was completed on time and within budget. The improvements to Jordan-Hare Stadium and other renovations completed in the

Auburn Athletic Complex nicely complement the multi-purpose indoor facility.

Attracting new talent to the athletic program is not a difficult task when the Tigers prove year after year their place in the SEC remains at the top. Having superior practice facilities solidifies the idea that training how you play is what keeps you there. Proudly displaying Auburn's interlocking "AU" and the SEC logo not only demonstrate the pride for the teams but is also indicative of the pride for the facility.



## THE GARGANTUAN MEGAPLEX IS TRULY A ONE STOP MULTI-SPORT FACILITY.

The St. James Sports and Active Entertainment Center opened to the public in September 2018. The massive multi-sport and wellness facility is located on a 20-acre campus in Springfield, Virginia. The 450,000-square-foot facility is home to an expansive training arena including a field house, ice house, pool house and court house. The field house features a 110,000-square-foot field and the ice house has twin National Hockey League-sized ice rinks. Four full-length basketball courts which can be converted into nine volleyball

courts complete with seating for up to 800 find a home in the aptly named court house. An impressive pool house is home to a 52-meter Olympic-sized Myrtha® training and competition pool, perfect for water polo and swimming.

Athletes training for baseball and softball can train in the 8,000-square-foot facility which includes tunnels for batting and pitching. Gymnasts find their training space in a facility that features 10,000 square feet including a competition-sized spring floor, deep foam pits and in-ground

trampolines. Three stories and 6,000 square feet of climbing walls allow the adventurer to train indoors, too.

The multi-sport facility offers training year-round no matter the weather. Those who need a break from their rigorous schedules while training can also relax in the spa and rejuvenation center as well as grab a bite to eat in the facility's restaurant.

The duo of design and need beautifully meet to create this massive training, wellness and entertainment facility made possible by American Buildings Company.





# A RED WOLVES' JEWEL

Completed in August 2015, the Student Activity Center serves both students and athletes.

The 78,000-square-foot facility features a full-length football field with a fully-padded interior. Because the space is large enough for multiple activities including intramural sports and batting practice, it meets the needs of many student groups on campus. Large fans circulate cool air during the hot summer months, and in winter,

the indoor facility heating system provides a comfortable practice and activity area. A fifty-eight-foot-tall ceiling allows ample room for the Red Wolves to practice many different sports safely indoors. The north wall is a donor wall which highlights the support of current and former students who made the SAC a reality.



# THE DEMON DEACONS' LAIR

THE MCCREARY FIELD HOUSE, INCLUDING SITE WORK,  
IS DESIGNED TO PROVIDE AN AREA FOR ALL 18 WAKE FOREST  
ATHLETIC PROGRAMS TO TRAIN YEAR-ROUND,  
REGARDLESS OF WEATHER CONDITIONS.

In the spring of 2016, McCreary Field House, the indoor practice facility for Wake Forest University, opened its doors. The Field House, which was totally funded through private gifts, took 18 months and \$21 million to build with the help of Bob McCreary, who provided \$12.5 million as the lead gift on the project. McCreary, a former Deacon football player, graduated from Wake Forest in 1961. Raised in Caldwell County, North Carolina, Bob credits the scholarship that provided him the opportunity to attend Wake Forest and further his education and that enabled him to succeed both in business and in life.

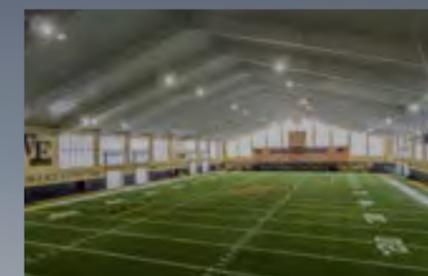
The 80,000-square-foot building, located behind Miller Center on Wake Forest's Reynolda Campus, features a 120-yard football field and weightlifting facilities for the Demon Deacons. The facility is roughly 200 feet by 400 feet with a peak height of 72 feet.

The constructed playing surface is an exact replica of Wake Forest's home football stadium, BB&T Field, in appearance, playing turf and pitch.

After construction completes at the Sutton Sports Performance Center, all weight equipment, which currently resides in a 7,000-square-foot weight room in the South end zone, will be relocated to the new facility. The current weight room serves as a dedicated training area for the football team.

To provide a facility for a wide range of activities, the goalposts in McCreary Field House are suspended from the ceiling and can be raised and lowered as needed. Camera platforms used for videotaping practice activities are located 28 feet above the playing surface.

Over 125,000 man-hours were invested into this facility, which consists of 240,000 bricks, 543 tons of steel on the overall super structure and 95,000 square feet of standing metal seam roofing.





## METAL ROOF PANELS

### When it comes to performance, few roof systems compare to ABC's Standing Seam panels.

Many building owners, including retail chains, the military and especially school systems, choose ABC metal buildings specifically for the long lasting standing seam metal roof systems. Metal standing seam roofs provide the longest life cycle of any common roof in use today, lasting up to four times longer than a conventional roof. The costs associated with a roofing system are not limited to installation and material costs. Life cycle costs are determined by comparing energy cost reductions, cost of maintenance and the life expectancy of the roof. When incorporating ownership costs into a metal roofing system that already has a life expectancy of 40 years or more, a conventional flat roofing system just can't compare. On a 100,000 sq. ft. roof, over 40 years of savings can be over \$1.5 million just by using a metal standing seam roof compared to BUR or Single Ply.

While long-term performance remains paramount to the success of metal roofing, these systems also give buildings a distinguished, modern appearance with clean architectural lines without sacrificing performance or quality. For owners interested in rainwater harvesting, these roof systems can't be beat for channeling water where it needs to go. Standing seam metal roof systems can be ordered in a wide selection of panel styles with high-quality finishes in a range of today's most popular colors.

#### Added Benefit of Going Cool on the Roof

In today's economic and environmental climates, an emerging key factor when selecting a roof is energy efficiency. All ABC colored metal standing seam roofing panels are treated with cool coating technology for optimal solar reflectance. These panels feature vivid, fade-resistant color, incredible durability and environmentally friendly cool technology originally developed for Stealth Aircraft in the U.S. Military.

To be considered "cool," products must have a solar reflectance of at least 25%. Solar reflectance is the fraction of the total solar energy that is reflected away from the surface. While conventional roof surfaces have a low reflectance of .05 to .25, metal roofs can achieve a Solar Reflectance Index (SRI) of up to 88 depending on the color. A higher SRI translates into reduced energy demand and increased energy cost savings for cooling seasons. According to a report by the Oak Ridge National Laboratory, cool metal roofs coated with PVDF-based "cool" resin can reduce energy consumption of an athletic facility by up to 40% in warm months as part of a total system design.



Standing Seam II (SSII)

Standing Seam 360 (SS360)



## INSULATED METAL PANELS

### The ultimate combination of brains & beauty.

Our insulated panels embody attractive styling and cutting-edge energy efficiency. Designed with the latest scientific breakthroughs, our panels are lightweight, durable and still maintain their ease of installation and visual appeal.

#### Attractive & Lightweight

One of the most sophisticated building products on the market today, insulated panels, offers a clean, consistent and high-quality appearance that immediately adds value to any building. Insulated panels enhance the visual appearance of your buildings, and their remarkable light weight

reduces structural requirements and installation costs.

#### Sturdy & Durable

The panels incorporate a finished interior liner, factory-applied air and vapor shield, and insulated foam core finished exterior weathering surface into a single building unit. The composite action resulting from a chemical bond between the poured-in-place foam core and steel skins creates a lightweight yet rigid unit with exceptional spanning capacity.

#### Easy To Install & Affordable

Lightweight and simplified fastening systems deliver quick installation and reduce labor costs. The panels

themselves are very affordable, in part, because of their lowered shipping costs attributed to their light weight. These panels can even be installed in adverse weather conditions.

#### The Ultimate in Energy Efficiency

You get 100% reliable thermal performance and insulation continuity – no cavities, no gaps, no crushed insulation and no cold bridges. No change of R-value occurs when purlin and girt center dimensions are varied. The insulated core is one of the most thermally effective insulants commonly available today. Furthermore, insulation values can be easily increased by simply increasing the thickness of the panels.

Each project follows a different set of parameters and therefore may require a different set of wall panels. We offer a selection of panels to accommodate the needs of any project. Each of our three wall panel profiles is ideally suited for commercial and industrial applications. The wide panels install quickly and easily with fasteners that are concealed within the panel side joint, and the attractive profiles break up the flat expanse of metal on large projects such as seen with an athletic facility.



Striated Profile

Plank Profile

Heavy Embossed Flat Profile



## INVISTA CENTRE

IT'S AN ICE RINK, MEETING FACILITY, FITNESS CENTER AND MORE. HOW COOL IS THAT?



It doesn't look like an ordinary hockey arena... that's because it isn't. With 4 NHL-sized ice surfaces, lounges, meeting rooms, concessions, and even a pro shop, INVISTA Centre is anything but ordinary. It integrates custom-engineered steel construction with conventional structures in a way that creates a very versatile environment.

Speaking of the environment, INVISTA Centre is designed to garner a LEED® Silver designation. Green building strategies used included sustainable sites, energy conservation, water conservation



and special attention to materials and resources. This innovative multi-use facility is another example of just how cool working with custom-engineered steel can be.



## MASTERCARD CENTRE

ETOBICOKE-LAKESHORE BECAME HOME TO A 260,000-SQUARE-FOOT, HOCKEY TRAINING EPICENTER.



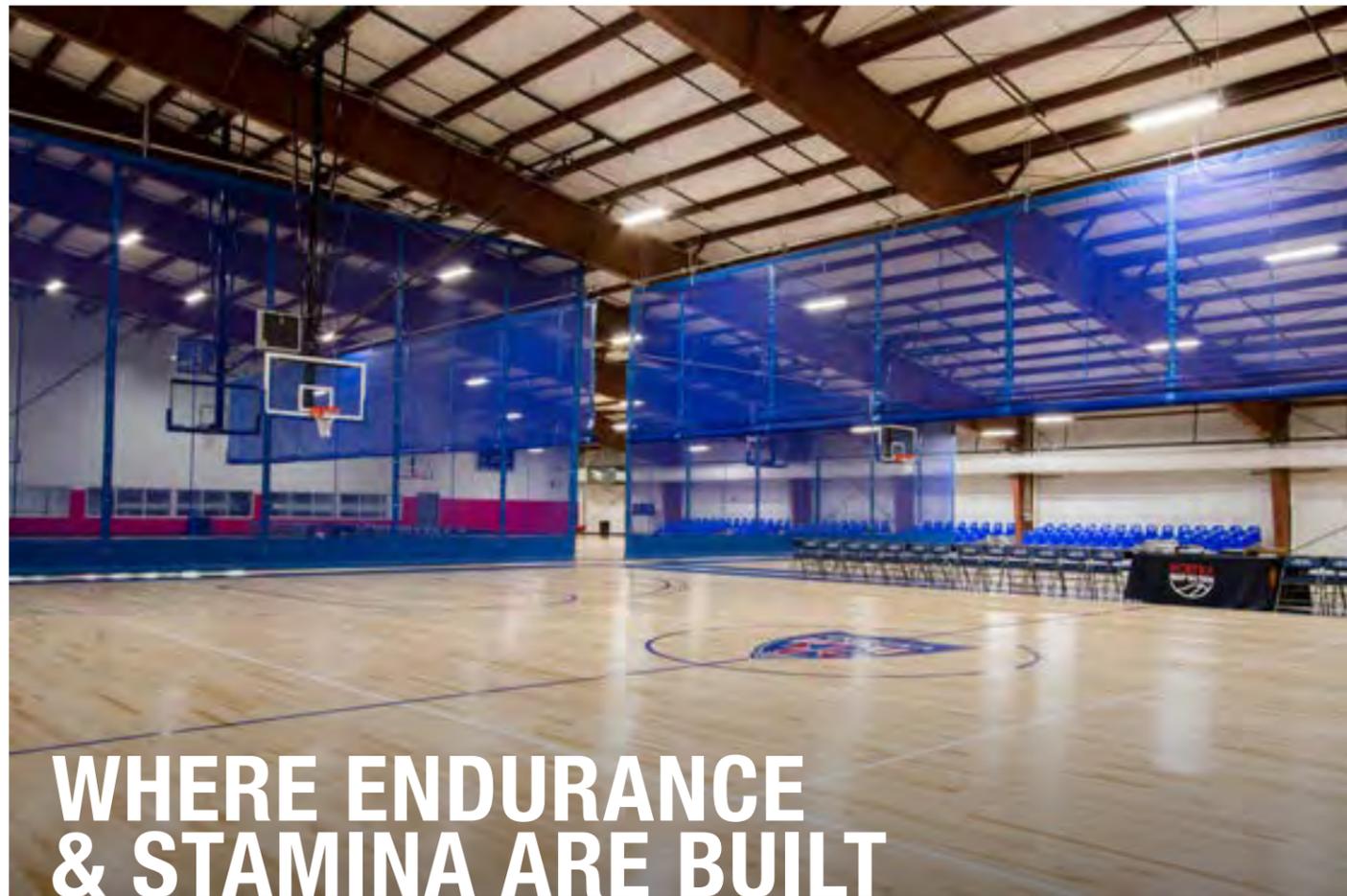
The first arena to be built in Toronto in more than 25 years, the MasterCard Centre complex, benefits youth hockey in Toronto, and serves as the practice facility for the Toronto Maple Leafs (NHL) and the Toronto Marlies (AHL).

Wheelwright Group is an American Buildings Company (ABC) Authorized Builder and erector. Wheelwright Group was chosen by Giffels, due to their ability to provide engineering solutions within the project's fixed schedule and budget, to supply and erect the 165,000-square-foot pre-

engineered structural steel and metal cladding portion of the arena. From design to completion, the subcontracted portion of the complex took 11 months. However, it was Wheelwright's ability to work closely with ABC's engineers to refine the structural details of the project that was critical for completion. Design to delivery took three short months; on an order which turned out to be ABC's largest steel order of 2008. Requirements unique to this project included the need for large clear spans up to 210 feet long and 36 feet high.

The ceiling needed to sustain a score-board weighing 10,000 pounds, and the roof required the strength to withstand significant snow loads.

ABC's custom metal building designs combined with Wheelwright's prior experience on erecting community centres and other large complexes gave them an advantage in being able to deliver innovative solutions and quick turnarounds for their clients. Prior to constructing the MasterCard Centre, the company completed the South Okanagan Events Centre in Penticton, British Columbia.



## WHERE ENDURANCE & STAMINA ARE BUILT



SPANNING 170,000-SQUARE- FEET, THE FACILITY FEATURES ONE OF THE LARGEST INDOOR TURF FIELDS IN NEW JERSEY.



Sportika opened in March 2017 in Manalapan Township, New Jersey. The venue holds seven full sized high school regulation basketball courts and four futsal courts. The multi-sport facility allows for athletes to train for soccer, baseball, field hockey, lacrosse and basketball. Not only can athletes advance in their sport of choice, but the facility

also houses Sportika-Brainstorm, a tutoring center where students receive extra attention to excel in the classroom, too. Additionally, four meeting rooms are utilized for special events. An arcade and 3,000-square-foot TV lounge optimizes the space for parents and guests to enjoy the facility while athletes practice.



## AN ACE ADVANTAGE



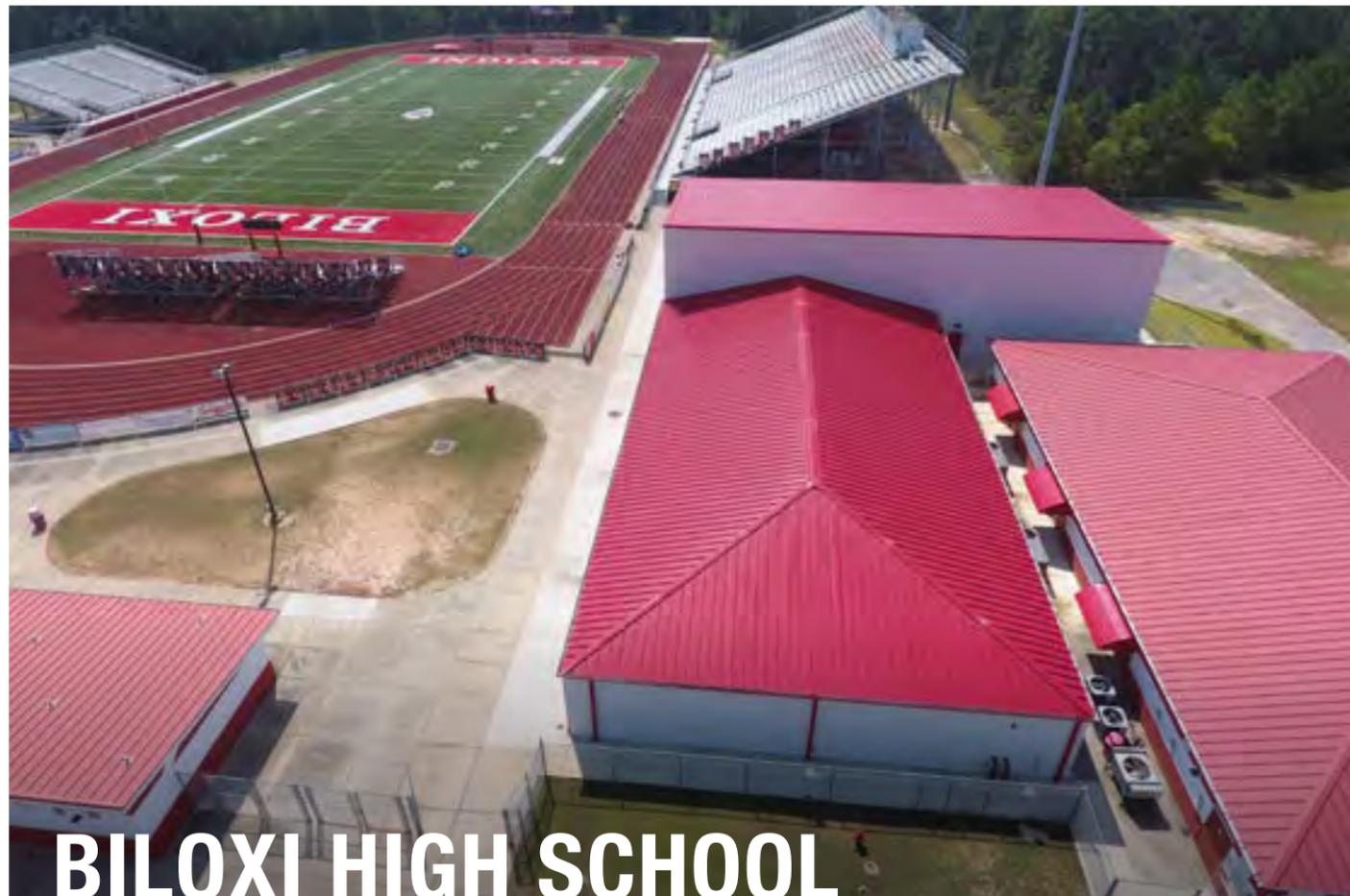
AS CENTRAL INDIANA'S NEWEST TENNIS HUB, THE FACILITY IS ENJOYED BY MEMBERS OF ALL AGES.



The new Pearson Automotive Tennis Club opened in Zionsville, Indiana, and sits on four acres conveniently located near the Zionsville High School Athletic Complex.

Amenities for the facility include eight USTA regulation-sized and climate-controlled tennis courts as well as a guest lounge and

comfortable viewing platform. The viewing platform, featuring table tennis and foosball, allows extra room for watching matches and relaxing during breaks. Additionally, men's and women's locker rooms provide ample space for local athletes to prepare for matches.



# BILOXI HIGH SCHOOL

THE ROOF FEATURES A CUSTOM RED COLOR TO MATCH THE SCHOOL LOGO.



The Biloxi High Athletic Facility, completed in November 2016, consists of two buildings. The cheerleading building is a 50'x105' single slope building with an L-shaped mezzanine, which is 62'x42'. The weight room is a

60'x105' gable symmetrical building. Both buildings feature a hipped roof which is a customized red color to match the school logo. The walls of both buildings feature Adobe stucco-textured Insulated Metal Panels.



# TIGERS' PRIDE

EUPAULA HIGH SCHOOL SPORT CENTER IS ONE OF THE TOP STATE-OF-THE-ART HIGH SCHOOL INDOOR PRACTICE FACILITIES IN ALABAMA.



In 2016, Eufaula High School underwent a \$3.2 million project to construct a state-of-the art indoor practice facility for its student athletes. This beautiful facility was funded entirely by the school district. The facility, which serves approximately 200-250 student athletes every day, took 18 months to complete. The main goal of the project was to transform its new

athletic facility into a technologically advanced hub to encourage optimal student athlete performances, which were reliant on having a strong wired and wireless deployment in place. The facility also boasts features like retractable batting cages, weight racks equipped with iPads for fitness monitoring and water fountains that measure each athlete's fluid intake.



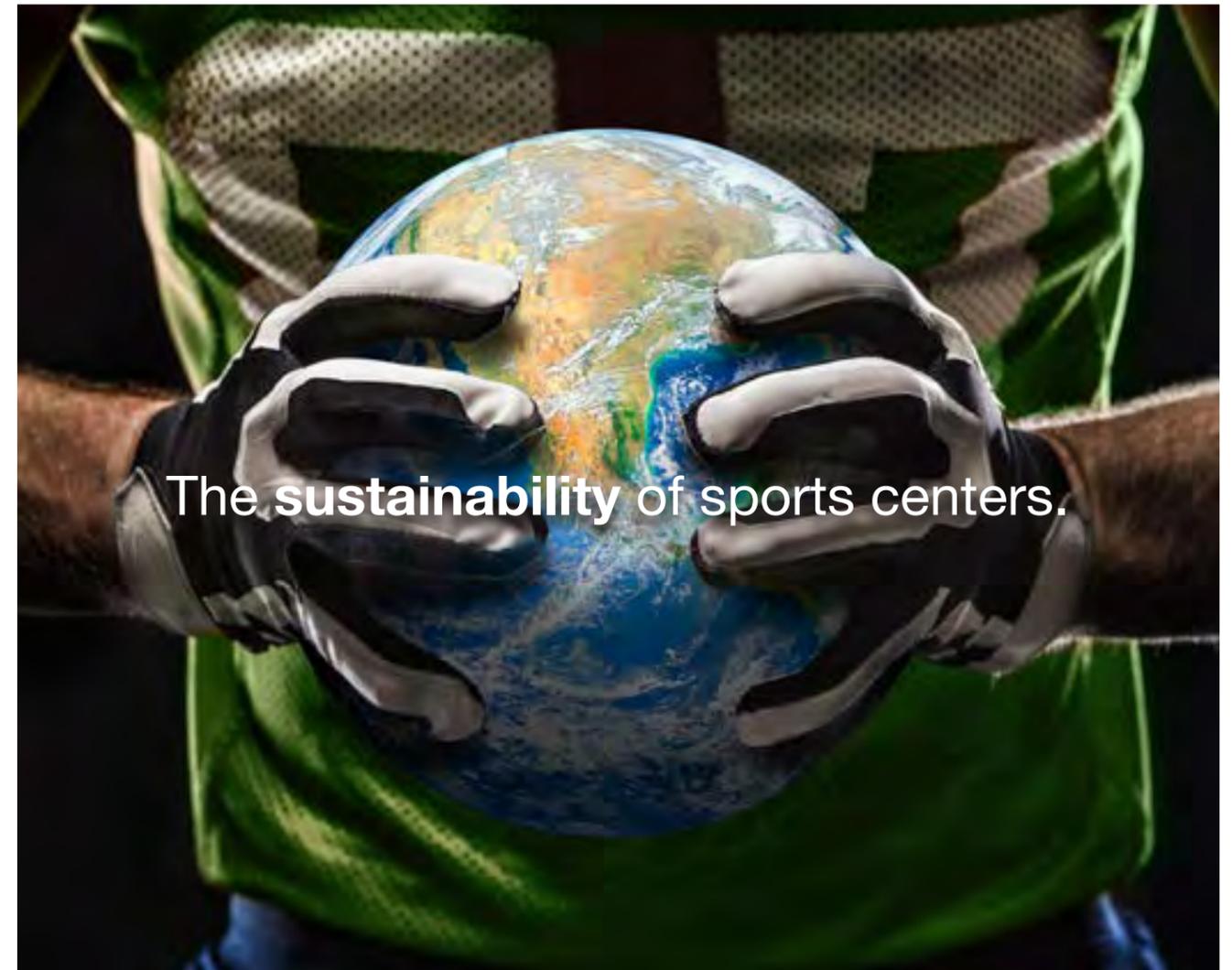
# RBC CENTRE

COMPLETED IN AUGUST OF 2017, THE DARTMOUTH RBC CENTRE HOUSES A FOUR-PAD ICE ARENA FEATURING THREE NHL-SIZED ICE SURFACES AND ONE OLYMPIC-SIZED ICE SURFACE.



The arena provides an ice escape year-round for community activities, recreational leagues, and other events including being the official practice facility of the Halifax Mooseheads. Sustainable features of the facility include heat recovery from the ice generation plant, sustainable use of construction materials, and a focus on operational and energy efficiency. One of the NHL ice surfaces provides seating with accommodations up to 300 spectators. Special events

are held in the arena in the same rink because of the sound system which allows community and non-profit groups to utilize the facility for an optimal experience. Twenty-two locker rooms for the rinks plus another four locker rooms to support the existing exterior all-weather sports facilities, a concession space and changing rooms for the ice arenas alongside a multi-purpose room, a boardroom and administrative office allow this multi-pad facility to house numerous athletic and special events.



The sustainability of sports centers.

## Green & Sustainable



Steel is the most recycled material on the planet.

Metal building systems are the poster child for sustainability and building “green” as steel is the most recycled material on the planet. The typical metal building is manufactured from at least 70% recycled steel. To top that, at the end of its useful life, 100% of a metal building can be recycled into a variety of steel products including new cars, appliances, buildings and bridges. In addition, recycled steel reduces mining waste by 97%, air pollution by 86% and water pollution by 76%.

During the manufacturing process, scrap levels for metal buildings are typically less than 5%, and the scrap often produces additional parts as

needed. Also, scrap, during erection at a jobsite, is minimal as all parts are engineered to fit before being shipped. Metal buildings typically weigh 30% less than a similar conventional structure due to a more efficient use of steel, resulting in real foundation design savings.

In order to accurately benchmark and assess the potential environmental impact of metal building components and key manufacturing processes, the MBMA and its member companies made a significant investment when they engaged the Athena Sustainable Materials Institute to conduct a Life Cycle Assessment (LCA) on their primary processes and products according to the ISO 14040/44 and ISO 21930 standards. The conclusions included information stating that metal buildings were just as competitive or even superior to other forms of construction systems regarding the manufacturing and erection carbon footprint.

# American Buildings Company

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## Quality You Can Count On

ABC buildings are produced in IAS accredited facilities, achieving accreditation under the International Accreditation Service (IAS) AC472 Inspection Program for Manufacturers of Metal Building Systems. This accreditation is given on the basis of an independent third-party evaluation of every aspect of a company's operation and it's monitored through periodic follow-up audits. These steps provide quality manufacturing that you can rely on.

While computer technology has streamlined metal building design, detailing, and engineering, real economies are made due to advances in the manufacturing of structural elements. Since all elements are factory custom fabricated, they are pre-cut and prepunched under precise factory conditions. As a result, quality is increased and waste is decreased. Building erection time and costs are more predictable since all parts are manufactured and shipped to the site.



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A **NUCOR** COMPANY

**INNOVATION.  
TECHNOLOGY.  
SOLUTIONS.**

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