



AMERICAN  
BUILDINGS  
A NUCOR COMPANY

INNOVATION.  
TECHNOLOGY.  
SOLUTIONS.

# BUILDING SYSTEMS CATALOG





Benson Centre, Cornwall, Ontario



CLOCKWISE  
Cycle North Powersports, Prince George, British Columbia  
Syracuse University Ensley Athletic Center, Syracuse, NY  
Hartman Arena, Park City, KS  
Founders Brewing Company, Grand Rapids, MI



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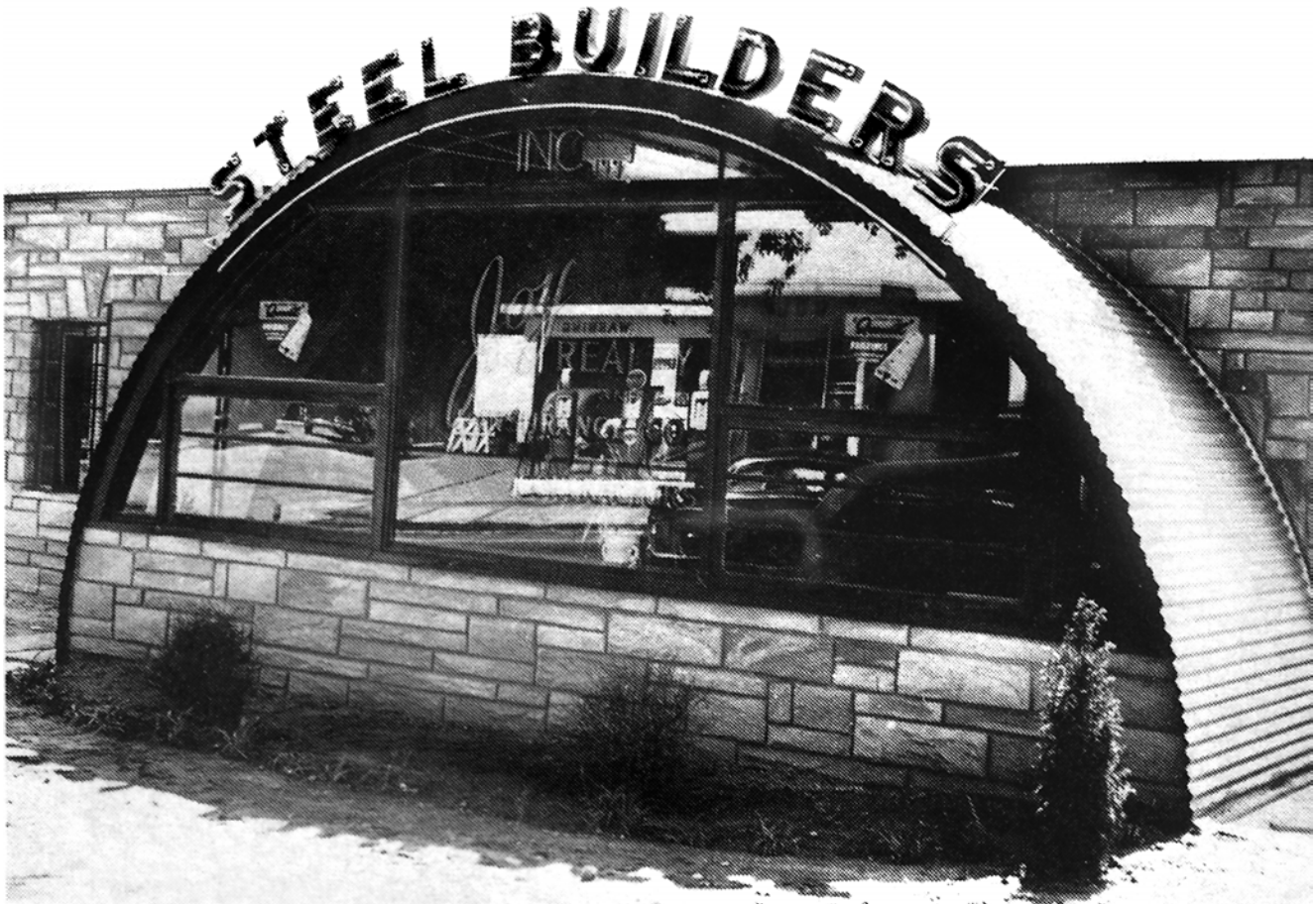
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## BACKGROUND

Founded in 1947 in Columbus, Georgia, as Steel Builders, Inc., a small regional fabricator taking part in the post-World War II economic boom, the Company was renamed American Buildings Company and relocated to Eufaula, Alabama in 1964. Over the years, ABC has enjoyed a dynamic growth history, as dynamic as the metal buildings industry itself. In 2007, ABC was acquired by Nucor Corporation, a Fortune 500 Company.



ABOVE Steel Builders, Inc. was later renamed American Buildings Company.

RIGHT ABC Headquarters



Nucor and affiliates are manufacturers of steel products with operating facilities primarily in the U.S. and Canada. The development of ABC over the years has been due to its continuous entrepreneurial drive and spirit. ABC's advancement from its simple beginnings to its present position as one of the industry's leading manufacturers is based on the expansion of its Builder network, which presently extends across the U.S., Canada and the Caribbean. ABC supports its business with technical and customer service centers, as well as fabrication facilities strategically located across the U.S., making it truly a nationwide manufacturer.

## AMERICAN BUILDINGS COMPANY CAN PROVIDE A VARIETY OF VALUE-ADDED SERVICES AND PRODUCTS:

### ROOFING

Architectural Metal Systems (AMS), a division of American Buildings Company (ABC), manufactures metal standing seam roof systems for new and retrofit construction markets, traditional metal roof panels and wall panel systems for remodeling applications throughout North America.

### SELF STORAGE SYSTEMS

Offering a complete line of proprietary turnkey systems and components, ABC's Self Storage Division can customize an engineered self storage system to meet practically any set of specifications. Whether it is a single-level, multilevel or climate-controlled system, ABC's self storage facilities are designed to reduce costs and expand rental income.

### COMPONENTS

With a full range of secondary structurals, purlins, wall and roof panels, doors, windows, skylights, flashing, trim, accessories and hardware, ABC's Components Division provides fast and economical service for projects requiring metal building components rather than a complete building system.

### NATIONAL ACCOUNTS PROGRAM

As a single-source supplier with multiple manufacturing locations, ABC can deliver complete, turnkey construction projects coast to coast by working with leading North American firms to coordinate with its extensive Builder network. Projects range from distribution centers to retail outlets for many well-known brand names across North America.



## KEY STRENGTHS

Since 1947, ABC has pioneered the design, manufacture, and delivery of metal buildings and roofing systems that have set the industry standard. With one of the widest arrays of product offerings from simple to complex multistory buildings, American's Builder network throughout North America has the expertise to deliver top-quality metal building systems and services. Here are a few of the reasons why:

### QUALITY AND ENGINEERING LEADERSHIP

ABC was a pioneer in adapting technology to the design of metal building systems.

ABC's engineering staff provides accurate design and quick turnaround of complex projects, enabled by their decades of experience and state-of-the-art technology.

Nationwide U.S. fabricating facilities use sophisticated machine tools to translate drawings into precise, quality-controlled building systems.

A network, throughout the U.S., of technical and customer service centers provides immediate expert assistance on the jobsite.

ABC's commitment to quality is not just an empty promise. All four ABC plants are accredited by the International Accreditation Service (IAS) to make sure that we deliver on that promise.

By choosing an IAS AC472-accredited building systems manufacturer, you'll be working with a company that knows quality building systems and has the expertise, resources and infrastructure to provide quality work. You'll also know your manufacturer complies with the special inspection requirements in Chapter 17 of the International Building Code.

You'll get all this and more when you choose ABC and any one of its authorized Builders. As an IAS-accredited manufacturer, ABC is committed to quality, skilled workmanship and customer satisfaction.

### RESEARCH AND DEVELOPMENT

ABC's R&D team is knowledgeable in all major North American building codes and constantly at work to improve and innovate all products.

Since its inception, ABC has been a leader in product quality and innovation, developing technologies and systems to enhance precision, speed, and ease of building systems erection.

Extensive testing in the lab and in the field optimizes structural strength and integrity. In addition, proper building code approvals are maintained. These steps are taken to meet or surpass all applicable insurance and building code requirements.

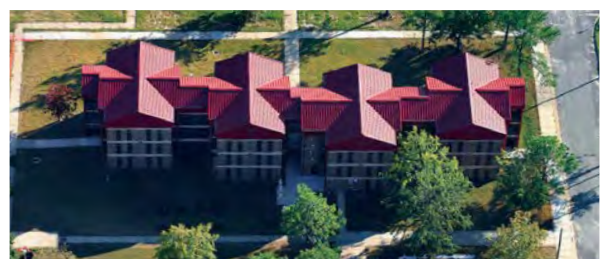
ABC's R&D efforts ensure long, trouble-free performance of its building systems, which are backed by strong warranty and erection/installation quality certification programs.

### ROOF RETROFIT

Metal roofing systems from Architectural Metal Systems (AMS), a division of ABC, save money. Retrofitting your building with an energy-saving AMS metal roof is a smart investment that yields valuable returns for decades. Conventional flat roofs are costly to maintain and last about 15 years. A metal standing seam roof, on the other hand, can last more than 40 years and needs only minimal maintenance.



LEFT Before  
RIGHT After



## PRODUCT DESIGN FLEXIBILITY

Total design flexibility—use ABC's system either alone or in combination with traditional building materials.

Non-load-bearing walls permit wide clear span interiors unobstructed by interior columns, while special loadings for cranes or other heavy equipment can be incorporated into designs.

Interior layout possibilities of ABC's building systems are practically unlimited, enabling utmost flexibility for workflow or storage requirements.

ABC was the first metal buildings manufacturer in North America to switch to 100% "cool" paint systems as standard with no up-charge for all roof and wall panels. We offer two "cool" panel finish options. Our SP-Cool™ panels come in several long-lasting color choices and carry a 25-year finish warranty. Coated with special "cool" resins that reflect the sun's rays, SP-Cool™ panels lower your energy costs while extending the life of the structure. This makes SP-Cool™ panels a sensible, practical choice for larger warehouses, agricultural structures and commercial buildings.

For high-visibility projects requiring even greater fade resistance and durability, SmartKote® PVDF coated panels offer another "cool" alternative. SmartKote® panels are available in a variety of beautiful color choices with a 35-year finish warranty. PVDF resin chemistry is the most durable, long-lasting system on the market. And these coatings help generate lower environmental temperatures, reducing smog and the heat island effect. What's more, they help reduce cooling costs in hot summer months.

Above all, ABC's buildings incorporate fewer parts on the jobsite, which means quicker erection with less labor time.

## WARRANTIES THAT SEAL THE DEAL

Our SmartKote® panels are backed by some of the best warranties in the business, with a wide variety of coverage and tougher inspections, all tailored to fit your needs. Our highly flexible multilevel warranty packages can provide you with as little or as much coverage as your project requires.

Our WEATHERSure™ warranties include a Manufacturer's Workmanship warranty, a 25-year exterior material and finish warranty offering protection against fading, chipping or peeling, and more.

ABC's standing seam roof and wall panel systems offer unsurpassed performance, appearance and value with the industry's highest 35-year paint finish warranty. In addition, our standing seam roofs are practically maintenance free and are available with a solid 20-year warranty protection against roof leaks.



St. Joseph's Parish, O'Hara Township, PA

## BUILD SMARTER WITH eQUOTE

eQuote, the industry's leading proprietary design, pricing and ordering software, provides fast, accurate estimates with proper engineering and code compliance built right in. Detailed graphics offer a clear picture of what you're quoting. Special fly-through capabilities take you on a dazzling tour of your building. eQuote is just one of the many tools ABC offers to make your planning and building process run smoothly.

### eQUOTE FEATURES AND BENEFITS

ABC invested in the development of this state-of-the-art pricing system, eQuote, because we know providing tools with increased accessibility, collaboration, efficiency, accuracy and value is critical to our Builders' success.

#### ACCESSIBILITY

- With an Internet connection, eQuote is accessible anywhere, anytime
- Runs on multiple devices and platforms (PC, Mac, Android, iPad, Windows) Web-based—no installs!

#### COLLABORATION

- Ability to access shared list of projects at your company
- Streamlined document control
- Simple submission process for quoting and ordering

#### EFFICIENCY

- Templates for streamlined input
- No more emailing TALON® files
- No supplemental forms, all entry on regular screens

#### ACCURACY

- Better scope accuracy
- Ability to define products such as:
  - Insulated metal panels
  - Mezzanines
  - Roof framed openings
  - Cranes
- Improved framed opening input
- No limitations on bay spacing

#### VALUE

- Improved and expanded drawings
- Increased capability as a quote and take-off tool
- Clear, concise order documents





## ABC CAN DO IT ALL

ABC offers a variety of techniques and solutions for a variety of requirements and exterior aesthetic appearances. Keeping pace with the latest in exterior looks and internal space requirements, ABC has the building systems to address today's major construction challenges.

### HARDWALL BUILDINGS

ABC fabricates systems for use on hardwall buildings with load-bearing or non-load-bearing concrete or masonry walls. These special systems are designed to be field erected with an ABC Builder providing site-cast or tilt-up concrete walls, in-plant pre-cast concrete walls, or other hardwall exterior solutions, depending on the specification requirements. The primary framing designs by ABC give the structure a conventional look and include a special diaphragm design to handle lateral building loads. ABC also has developed proprietary wall-to-roof connections and wall insulation solutions for these systems.

All hardwall systems are designed to accommodate the full range of ABC's standing seam roof systems for optimum, long-lasting warranted weathertightness with minimal or no maintenance and are manufactured in IAS-accredited facilities across the U.S. They are designed to provide a competitive construction alternative for many types of building projects.

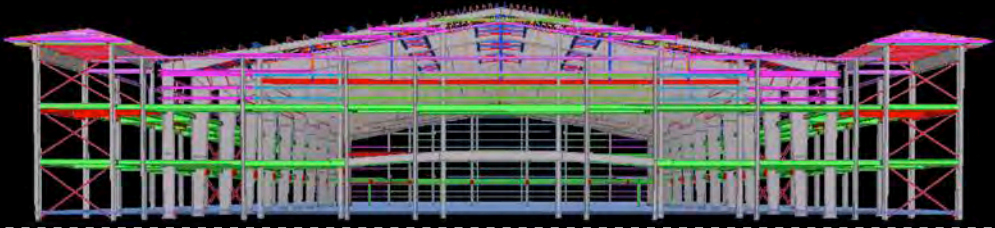
### HEAVY FABRICATION

ABC's heavy fabrication capabilities blend the efficiency of metal building systems with the strength of conventional steel. This means heavy-duty requirements can be met at the most reasonable cost possible with a single-source responsibility. For example, ABC manufactures precision box girders that can be used to support cranes or other heavy loads and provide open spans of 70 feet or more between columns.

With its complete in-house engineering and computer-design groups, ABC can design, engineer and manufacture in its facilities. Our roll forming, welding and shearing equipment, and continuous run processing provide uniform quality and measurement accuracy—virtually everything required for heavy structures no matter how large or complex.



## WHAT IS BIM?



Building Information Modeling (BIM) is the process of generating and managing building data and its various components throughout the building's life cycle. Using 3-D, real-time, dynamic building modeling software to increase productivity in building design and construction, the process produces the Building Information Model.

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

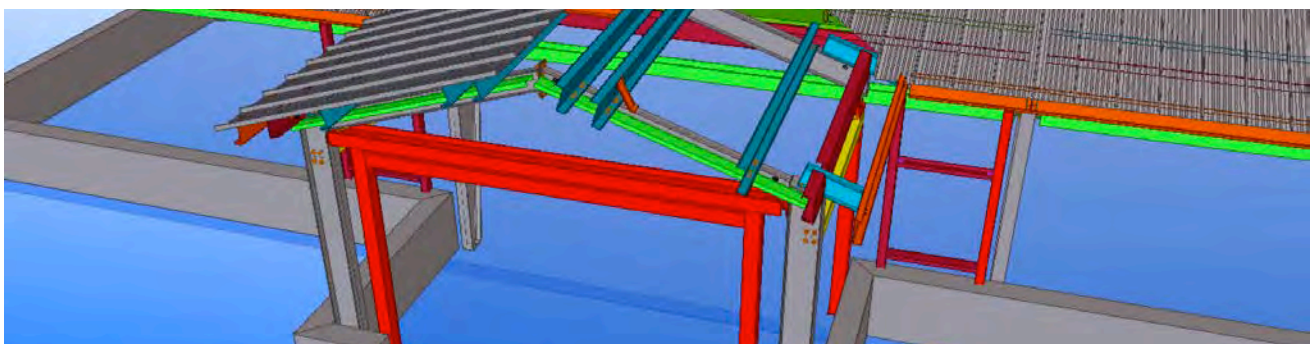
### WHY USE BIM?

ABC is pairing its proven track record of quality and service with the future of 3-D modeling to give Builders, general contractors, engineers and architects an edge over competitors in the market. Providing customers with a modeling system, that can display an exact replica of their building, leads to confidence and peace of mind for the life cycle of the project. ABC details to Level of Development (LOD) 400 as standard.

### DIGITAL PROTOTYPE

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 the 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.

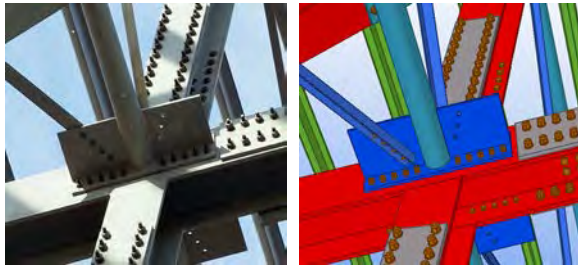




## BIM BENEFITS

### IPD = GREATER COMMUNICATION

BIM seamlessly bridges gaps in communication between Builders, owners, architects, engineers and contractors. Utilizing BIM with an Integrated Project Delivery system, or IPD, leverages the power of modeling to facilitate collaborative decision-making.

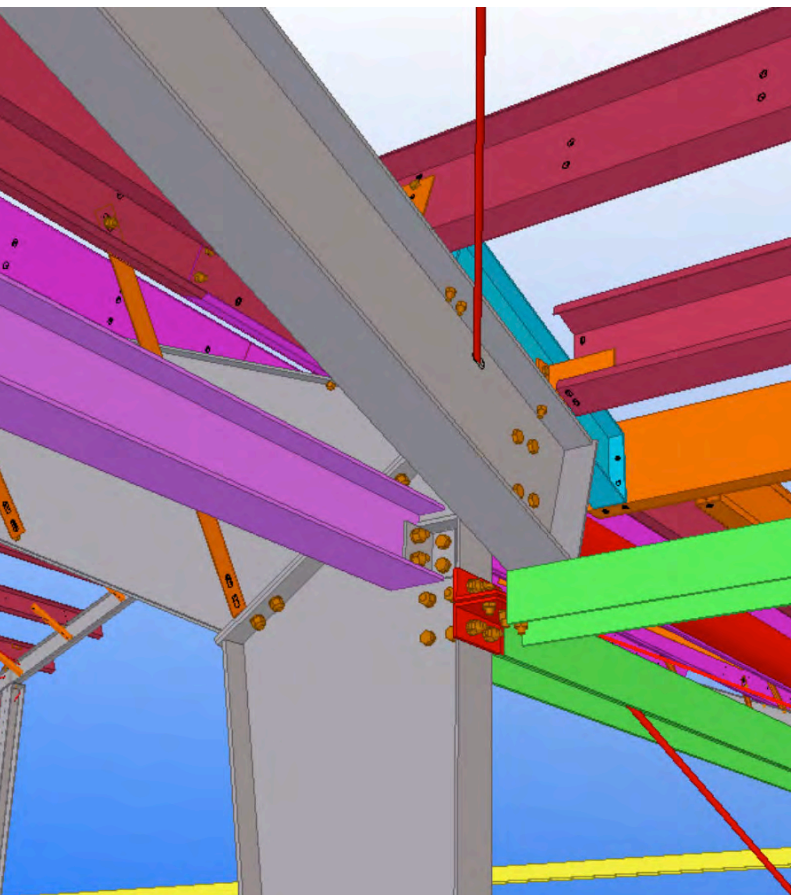


### BE A HERO

By offering this added value to their projects, ABC Builders gain a huge advantage over competitors still building in the traditional way.

### SOLVE PROBLEMS BEFORE BREAKING GROUND

Design issues can be addressed and modified early in the process, saving time and money. Visual representations of potential issues enable you to identify clashes and conflicts between architectural, structural, and MEP systems. This means you can resolve potential problems before a building is actually built.



### BIM IS THE CHOICE OF LEADING BUILDERS, ARCHITECTS, FABRICATORS, ERECTORS, ENGINEERS, DESIGNERS, MANUFACTURERS AND OWNERS BECAUSE IT:

- Allows for easier coordination of various software and project personnel through Integrated Project Delivery (IPD) systems
- Serves as a significant resource for erectors
- Produces a working model usable for fabrication
- Leads to increased productivity
- Enables improved communication across project team members, which can significantly reduce change-order costs
- Enhances quality control, including clash detection
- Provides comprehensive life-cycle management

## WHY CHOOSE AN IAS-ACCREDITED MANUFACTURER?

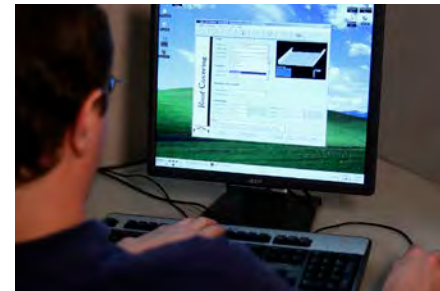
You know quality is important. But how can you be certain your building systems manufacturer is delivering on its quality promise?

By choosing an International Accreditation Service (IAS) AC472-accredited building systems manufacturer, you'll be working with a company that knows quality building systems and has the expertise, resources and infrastructure to provide quality work. You'll also know your supplier complies with the special inspection requirements in Chapter 17 of the International Building Code.

ABC has achieved accreditation under the IAS AC472 Inspection Program for Manufacturers of Metal Building Systems. IAS AC472 covers structural welding (modeled after AC172), cold-formed steel fabrication and engineering. To achieve accreditation, a manufacturer must have in place a comprehensive quality-assurance program unequalled in the marketplace.

When you do business with an IAS-accredited manufacturer, it shows. It means that you're serious about the quality of the materials that go into your building and the capabilities of the company that supplies them. You get all this and more when you choose ABC and any one of its authorized Builders.

As an IAS-accredited supplier, ABC is committed to quality, skilled workmanship and customer satisfaction.





## VARIETY OF APPLICATIONS

As the metal buildings industry commenced its post-World War II boom, the Quonset™ hut design was prevalent. However, the industry soon gave way to a new form of sheet metal-clad buildings that could be designed and constructed rapidly. The look and design were basic, but the speed with which the buildings could be erected and the jobsite handed over were unsurpassed. However, over the years, the demand for aesthetics helped guide the industry to more sophisticated looks and use of materials, while still demanding quick turnaround of product and

fast delivery. ABC helped to lead this change with its use of advanced technology and design techniques.

ABC can be readily combined with traditional materials such as brick, stone, glass or wood to meet any appearance requirement, while ABC's technology dramatically shortens design, fabrication, and on-site erection time for major cost savings and faster occupancy.



Christ Church, Fairfax Station, VA



Long Fence Headquarters, Odenton, MD



Midfield Supply, LTD, Bonnyville, Alberta



The Union Bank Company, Ottawa, OH



Bobcat of Omaha, Omaha, NE

## COMMERCIAL AND RETAIL

With appearance and working efficiency being central to successful commercial or retail buildings, the complete flexibility offered by ABC for exterior appearance together with convenient and inviting interior layouts, maximizes usable space and provides a winning combination and solution for commercial and retail needs.

## OFFICE

Building systems by ABC are designed to provide efficient work space while creating a favorable exterior impression, key goals in office building construction. Through ease of erection, on-site time and labor costs are minimized, yielding faster occupancy.



CLOCKWISE FROM LEFT  
 WS Construction Office & Shop, Sioux Falls, SD  
 Faucets Direct, Chico, CA  
 Hi-Stat Manufacturing, Lexington, OH  
 ABC Computers, Waupaca, WI





Annmarie Sculpture Garden & Arts Center, Dowell, MD



Apex Public Safety, Apex, NC

## GOVERNMENT AND INSTITUTIONAL

To create facilities flexible enough for multiple applications and a variety of uses under one roof, ABC building systems offer complete freedom of design, both internally and for the exterior, that allow for minimum maintenance and flexible, cost-efficient future expansion opportunities.

## WAREHOUSE AND DISTRIBUTION

Clear span spaces, long bays, mezzanines, high eave heights—ABC can meet any functional requirement such as rack storage or conveyors while allowing for maximum usable storage capacity and operating efficiency, all with a high-tech, aesthetic exterior look.



CLOCKWISE FROM TOP  
 Johnstone Supply, Omaha, NE  
 Double Date, Coachella, CA  
 Feridies - The Peanut Patch, Courtland, VA  
 Auburn University Multi-Sport Indoor Practice Facility, Auburn, AL





ADS Tactical, Virginia Beach, VA



Alcobra Metals, Spokane, WA

## MANUFACTURING AND INDUSTRIAL

Offering complete flexibility of layout and workflow, ABC systems allow for use of cranes and other heavy equipment as required in most manufacturing and industrial applications, while also allowing for fast, economical future building expansion if required.

## TRANSPORTATION

ABC systems provide full layout flexibility and clear span capabilities to meet all the functional requirements, such as storage and loading dock needs of modern transport facilities, while allowing for maximization of interior space usage at lower total life cycle costs compared to other building types.



CLOCKWISE  
Sun Air, Pasadena, CA  
Jet Ranch Building 3, Carson City, NV  
Quonset Airport Hangar, North Kingstown, RI





Glendale Estate, St. Mary's, PA



Headsight, Bremen, IN

## AGRICULTURE

For most agricultural bulk storage needs, such as storing grain, soybeans, peanuts, cottonseed or corn, ABC can provide lighter loadbearing structures, as well as a variety of storage shed options.

## RECREATION

Custom-designed clear span systems of ABC meet all open playing and spectator space need along with locker, child-care, lounge, foodservice and other related facility requirements.

### CLOCKWISE FROM RIGHT

South Okanagan Events Centre, Penticton, British Columbia  
(interior & exterior),

Student Activity Center, Arkansas State University, Jonesboro, AR



## GOING GREEN IS EASIER WITH METAL BUILDING SYSTEMS

All four ABC divisions have achieved ISO 14001 certification. As an ISO 14001-certified manufacturer, ABC is dedicated to protecting our environment and reducing waste. Every ABC teammate is responsible for environmental protection, and we also require contractors, vendors and suppliers to comply with applicable environmental laws.

Metal building systems are the poster child for sustainability and “Green,” as steel is the most recycled material on the planet. Nucor typically recycles 22 million tons of scrap annually, including 9 million cars. Recycled steel reduces mining waste by 97%, air pollution by 86% and water pollution by 76%. Producing steel through recycling also uses significantly less energy than conventional steelmaking. In fact, the energy Nucor saves through recycling compared to conventional steel production is enough to power Los Angeles for 8 years.

The typical ABC building is manufactured from at least 70% recycled steel. To top that, at the end of its useful life, 100% of an ABC building can be recycled into a variety of steel products, including new cars, appliances, buildings and bridges.

ABC was the first metal buildings manufacturer in North America to switch to 100% “cool” paint systems as standard with no up-charge for all roof and wall panels. This environmentally friendly cool technology was originally developed for Stealth Aircraft in the U.S. Military. These coatings help generate lower environmental temperatures, reducing smog and the heat island effect. What’s more, they help reduce cooling costs in hot summer months.

Student Activity Center Arkansas State University, Jonesboro, AR





IF YOUR BUILDING MANUFACTURER  
ISN'T ISO 14001 CERTIFIED,  
FIND ONE THAT IS

### WHAT IS ISO 14001?

The International Organization for Standardization (ISO) 14001 is a standard for Environmental Management Systems (EMS) that applies to all businesses, regardless of size, location or income. The standard aims to continually reduce the environmental footprint of a business and to decrease the pollution and waste a business produces. The most recent version of ISO 14001 was released in 2004 by the ISO, which has representation from committees all over the world. As an ISO 14001-certified manufacturer, ABC is dedicated to protecting our environment and reducing waste while helping you improve your environmental performance. Green saves money. And that's something we can all bank on.

### A RIGOROUS PROCESS

A company saying it is committed to environmental and sustainable concepts is one thing. Achieving ISO 14001 certification is quite another.

In order for an organization to be awarded an ISO 14001 certificate, it must be externally audited by an accredited audit firm. For ABC, this rigorous, demanding process took a full year and included education and training for every team member.

We invested more than 10,000 hours to ensure all four divisions would reach the goal. The process was challenging, to say the least, but an extremely worthwhile investment, as it taught us how to better use resources and protect the environment.

### WHY IS ABC COMMITTED TO EMS?

Implementing Environmental Management Systems (EMS) yields both business and environmental benefits, including:

- Improved environmental performance
- Enhanced, sustainable compliance
- Prevention of pollution and conservation of resources
- Reduced risks
- Satisfied customer demand for EMS requirements
- Increased efficiency
- Reduced costs
- Enhanced employee morale
- Greater employee awareness of environmental issues and responsibilities

### KEEPING IT GREEN

To continually improve the effectiveness of our Environmental Management System, ABC is:

- Pursuing pollution prevention and waste minimization opportunities
- Investigating and developing technologies and operations that improve environmental performance
- Regularly evaluating its own environmental management system and making ongoing improvements.

ABC is making a difference in our plants and in the world around us.

## BUILDING SYSTEMS

ABC building systems are constructed in many different shapes and sizes for many applications from manufacturing and distribution centers, retail and commercial facilities, offices and schools, recreation centers and self-storage facilities to healthcare and correctional institutions.

### BUILDING STYLES

Building styles offered by ABC include three common designs. The Gable Style (GS) provides a traditional center ridged-roof slope available in a variety of pitches. The Single-Slope Style (SS) has similar characteristics of the Gable Style but in a single-slope configuration. The Lean-To Style (LS) resembles the Single-Slope but provides an economical means of making a building wider by extending its roofline, or it can be attached to a lower level on the building to provide additional office or storage space.



A Gable Roof System (GS) provides a roof with two sloping sides and a ridge. With optional tapered columns, this style of building is a cost-effective solution for office, warehouse, industrial and commercial applications. The available straight column option provides a good system for palletized storage or display racks and is also ideal for shopping centers and other commercial buildings. The girts can be located in either a bypass or inset position, and the roof slope can be as low as 1/4:12 or as steep as 6:12. The Gable Roof System is available with clear span frames or with interior columns, which provide economical solutions for wide buildings.



A Single-Slope System (SS) provides a building with one roof surface. With single-side drainage, these systems are suitable for manufacturing facilities, warehouses and retail shopping centers. The available tapered columns provide an inexpensive solution for wider buildings while the available straight columns allow for maximum usage of interior space. The girts can be located in either a bypass or inset position, and the roof slope can be as low as 1/4:12 or as steep as 6:12. Clear span frames are available, or interior columns can be added to provide an economical answer for wide buildings.

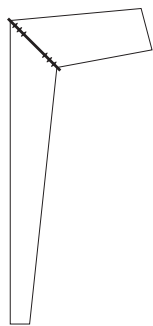


A Lean-To System (LS) provides a cost-efficient means of making a building wider by utilizing a single-slope system to extend the roofline of a building or by attaching to a lower level on the building. This is ideal when additional space for offices or storage is needed.

ABC has the advanced design, engineering and manufacturing capabilities to be a single-source supplier for a wide range of metal building systems. ABC accomplishes this by offering a variety of building styles, framing styles, column shapes and girt conditions that can collectively satisfy virtually all building requirements.

## COLUMN SHAPES

Column shapes are determined by several factors, including a building's required roof slope and interior clear spans. ABC provides two styles of column shapes. The Tapered Column is normally found in buildings where interior finishing is limited, such as warehouses, distribution centers and storage facilities. The Straight Column allows for interior walls and maximum use of interior space.



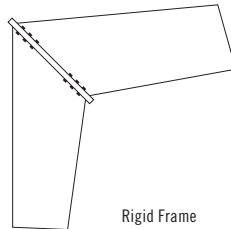
Tapered Column



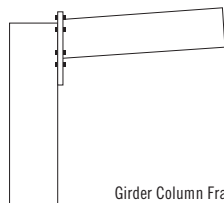
Straight Column

## FRAMING STYLES

There are two primary framing styles found in ABC. The Rigid Frame is the most economical style for clear span and modular widths. It is normally used in buildings where higher center clearance or greater roof slope is desired. The Girder Column Frame offers straight wall columns and inset framed girts. This style offers extreme widths and the lowest roof slope possible.



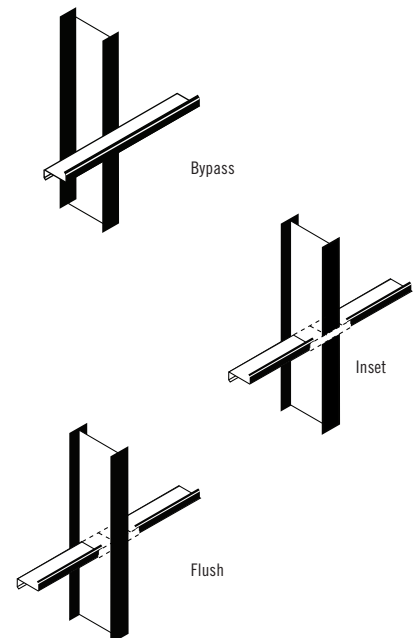
Rigid Frame



Girder Column Frame

## GIRT CONDITIONS

Girt conditions refer to the method in which horizontal girts are attached to the exterior columns in a building. The most common condition, the Bypass Girt, makes a continuous run around the outside of a building's columns, providing an air space the width of the girt between the column and the exterior panels. An Inset Girt minimizes the air space between the columns and exterior panels. Flush Girts provide no air space between the columns and exterior panels yet offer the maximum amount of floor space.



Bypass

Inset

Flush

# HIGH-PERFORMANCE PRISMATIC DAYLIGHTING

## THE MOST BRILLIANT REASON TO CUT A HOLE IN THE ROOF

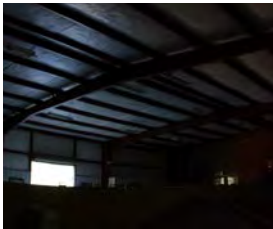
Daylighting is the controlled admission of natural sunlight into a building via diffused skylights. Done correctly, it can save energy\* and money by reducing the need for electric lighting during daylight hours without causing heating or cooling problems.

As industry leaders in today's engineering building technology, we offer high-performance daylighting components for new construction and retrofits. Adding natural daylight to your projects is a bright idea. High-performance prismatic skylights and daylight-responsive lighting controls will enhance your projects and brighten your sales curve.



### CURB MOUNTED PRISMATIC SKYLIGHT

The ABC Prismatic skylight (compared to competitive daylighting products) is designed to optimize lighting performance even at low angles – with no moving parts. The resulting performance provides better quality light for the maximum hours per day, thus maximizing energy savings by greatly reducing electric lighting use.



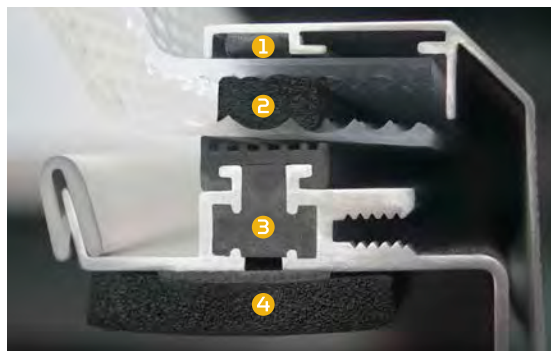
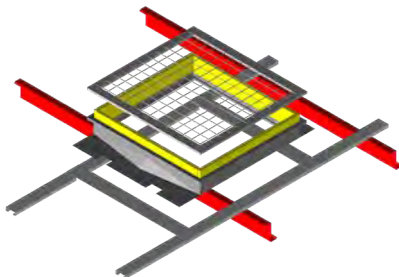
BEFORE  
(with electric lights OFF)



DAYLIGHTING  
(with electric lights OFF)

### ABC ROOF CURB

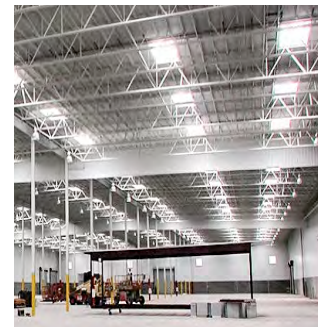
ABC's new roof curb system enables lightweight roof accessories, such as skylights and smoke vents, to be installed with virtually any ABC roof panel, including standing seam, through-fastened and insulated roof panels. This engineered system can be installed in either new construction or in a retrofit application. Steel lined with an insulated curb wall, it requires no secondary framing, reducing total curb installation weight.



1. **GLAZING SEALANT** 50 year UL Listed sealing material.
2. **SANTOPRENE THERMOPLASTIC** Our santoprene thermoplastic engineered labyrinth seal eliminates noise, has seven labyrinth fingers for absolute water control, not only making it impenetrable, but it is also 50-year UL Listed.
3. **THERMALLY BROKEN** AAMA compliant "poured and debridged" thermal break with non-thermally conductive, high tensile urethane.
4. **CURB SEAL TAPE** Ethylene Propylene Diene Monomer (EPDM) curb seal tape eliminates the need for roof caulking between curb top and skylight frame.

### ENERGY-EFFICIENT LED LIGHTING AND CONTROLS

LumiSense is a complete daylighting system from ABC that utilizes ABC roof mounted skylights, LED lighting and intelligent lighting controls to create a truly efficient energy saving solution.



\* According to Jon McHugh, PE, LC, and technical director with the energy consulting and research firm Heschong Mahone Group, Inc., America could reduce its peak load electrical demand by 24,000 megawatts just by daylighting existing buildings that could utilize daylight using toplighting or skylights.

As the self storage industry has matured, demand for multistory projects has increased. Factors contributing to this growth include decreasing availability of land, rising land costs, the rise in demand for climate-controlled space and planning and zoning requirements.

## SELF STORAGE

### ABC TAKES SELF STORAGE TO A WHOLE NEW LEVEL

BETTER BUILDINGS. SMARTER SYSTEMS. THE NEXT GENERATION OF SELF STORAGE.

#### DON'T BUILD OUT. BUILD UP.

ABC offers the next generation of self storage with multistory systems that can generate maximum revenue in minimum land area.

Multistory facilities provide more square footage in smaller spaces. These complex units can be built on the side of a hill or on land where a standard facility would not be possible or the cost of changing the topography would be prohibitive. Building multistory facilities is a specialty. Not all metal building suppliers are qualified to design and manufacture these more complex structures. Our IAS-accredited manufacturing plants provide a third-party endorsement you can count on. We'll guide you through every step of the process, including custom design, engineering and controlled manufacturing. All of these processes are certified for integrated quality, which reduces construction time and maintenance.

Multistory units and state-of-the-art climate control are only the beginning. Our self storage units are all built with panels coated with SmartKote® or SP-Cool™, which use technology originally developed for Stealth Aircraft in the U.S. Military to increase energy savings and promote cooler interior spaces. With SmartKote® and SP-Cool™ panels, units are cooled from the outside in, so interior cooling systems don't have to work as hard thus saving energy and money.

TOP Clima Storage, Kerrville, TX

BOTTOM Castle Guard Storage, Blackfalds, Alberta



### FEATURES AND BENEFITS OF ABC'S SELF STORAGE SYSTEMS INCLUDE:

- Competitive pricing
- Custom design and engineering
- Single and multistory options with flexible floor plans
- Operational efficiency and durability
- Fast, cost-efficient construction
- Controlled manufacturing process
- Reduced construction time and maintenance
- Climate-controlled and environmental temperature-controlled facility options

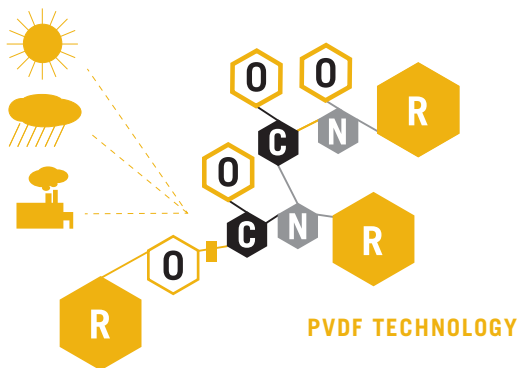
## PANEL SYSTEMS

All of ABC's roof panels are made of G90 zinc-coated (galvanized) or AZ50 aluminum-zinc alloy-coated steel. All panels are available with ABC's SP-Cool™ or SmartKote® finishes, available in a broad range of colors that are warranted against blistering, chalking or fading.

### PANEL FINISHES

Vivid color. Eco-efficiency. Low-maintenance reliability. Nothing works better longer than our SmartKote® paints. This revolutionary coating system consists of PVDF resin, acrylic resin and ceramic pigments, which give the product its incredible color, durability (fade resistance) and energy-efficient "coolness." PVDF resin chemistry is the most durable, long-lasting system on the market. It is transparent to the ultraviolet light that breaks down other coating systems. Whereas non-cool materials absorb a majority of the sun's rays and generate heat, "cool" resins reflect them, keeping the paint coating itself cooler. This technology not only maximizes the life of your panels, it can ultimately lead to lower cooling costs.

The carbon-fluorine chemical bond in PVDF is photochemically stable (resistant to sunlight's ultraviolet rays) and inert against acids, bases and chemical attack.



In addition to our selection of beautiful SmartKote® PVDF coated panels, ABC also offers SP-Cool™ panels in a variety of color choices. Coated with special "cool" resins that reflect the sun's rays, SP-Cool™ panels lower your customers' energy costs while extending the life of the structure. This makes SP-Cool™ panels a sensible, practical choice for large warehouses, agricultural structures and commercial buildings. For high-visibility projects requiring even greater fade resistance and durability, SmartKote® PVDF coated panels offer another "cool" option. Having more choices gives you more flexibility and more options. And more ways to make your building a success. SP-Cool™ and SmartKote®: The cool choice.

### WARRANTIES

We're proud of the fact that we offer the best warranties in the industry, such as our standard 25 years on our SP-Cool™ panels and a 35-year warranty on our SmartKote® paint finishes. A 20-year weathertightness warranty that includes complete product replacement is also available with our unique **WEATHERSure™** Premium roof warranty with third-party inspection.

Kenneth Shuler School of Cosmetology, Florence, SC





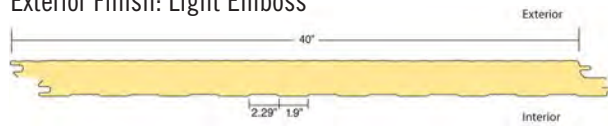
## INSULATED WALL & ROOF PANELS

ABC offers a selection of insulated wall and roof panels to accommodate the needs of any project. The wide panels install quickly and easily. Fasteners are concealed within the panel side joint, and the attractive profiles are an ideal solution where energy-efficient panels are required. In addition, the factory-applied finish of our new AdobeTexture™ wall panels combines an attractive appearance with the durability that can resist the effects of impact, abrasion and weather.



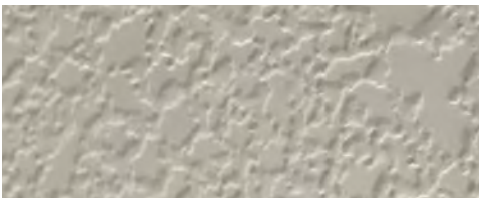
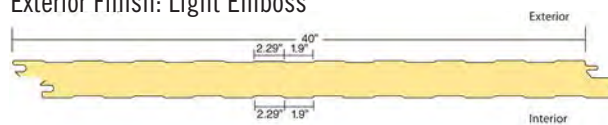
### Striated Profile

Exterior Finish: Light Emboss



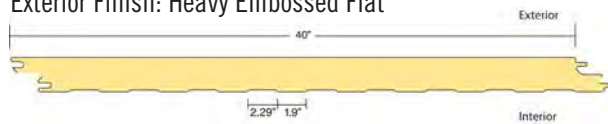
### Plank Profile

Exterior Finish: Light Emboss



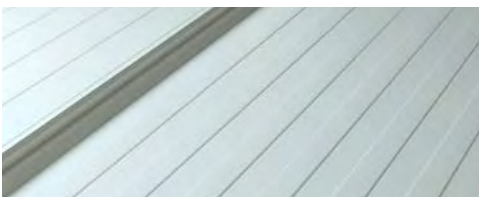
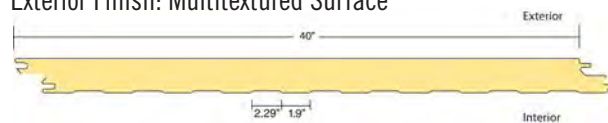
### Heavy Embossed Flat Profile

Exterior Finish: Heavy Embossed Flat



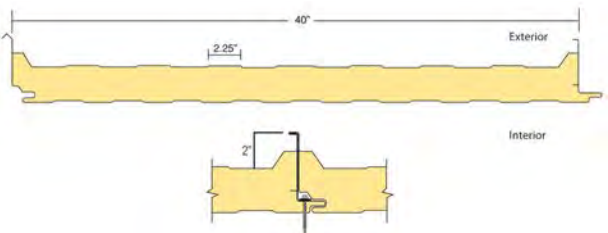
### AdobeTexture™ Wall Panels

Exterior Profile: Heavy Embossed Flat  
Exterior Finish: Multitextured Surface



### Standing Seam Roof

Exterior Finish: Smooth - No Emboss



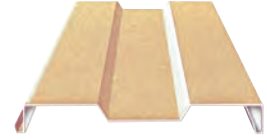
## THE ULTIMATE IN ENERGY EFFICIENCY

You get 100% reliable thermal performance and insulation continuity with no cavities, no gaps, no crushed insulation and no cold bridges. No changes of R-value occur when purlin and girt center dimensions are varied. The insulated core is one of the most thermally effective insulants commonly available today. Insulation values can be easily increased by simply increasing the thickness of the panels. Significant improvements are achieved in air-tightness over many other types of construction.

## ABC WALL PANELS

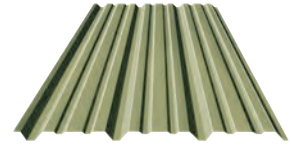
### SHADOW

These 16" net width embossed panels have deep fluted profiles that accent contrasting shadow patterns. Panels are 3" deep. They are offered in 24-gauge steel and are fastened to the framework from the inside leaving no exposed fasteners.



### ARCHITECTURAL III

These wall panels provide 36" width coverage with a decorative shadow line and semi-concealed fasteners. Rib height is 1-1/4" on 12" centers, and this panel is available in 26-gauge steel as standard. 22- and 24- gauge can be special ordered.



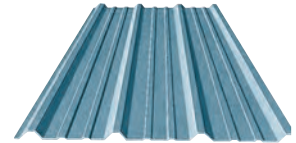
### ARCHITECTURAL "V" RIB

These wall panels provide 36" of coverage and reveal a sculptured appearance. With semi-concealed fasteners, the panels have a 1-5/16" high rib and are made of 26-gauge steel.



### LONG SPAN III

These wall panels have 1-1/4" ribs on 12" centers for an even-shadowed appearance. They offer 36" width coverage and are reinforced between the ribs for added strength. Panel is available in 26-gauge steel as standard. 22- and 24-gauge can be special ordered.



Safe Haven Farms - The Hatton Place, Madison Township, OH

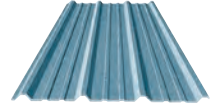


Rona Home Center, Nanaimo, British Columbia

## ABC ROOF PANELS

### LONG SPAN III

These roof panels have 1-1/4" ribs on 12" centers for an even-shadowed appearance. They offer 36" width coverage and are reinforced between the ribs for added strength. Panel is available in 26-gauge steel. 22- and 24-gauge can be special ordered.



### LOC SEAM & LOC SEAM 360

Loc Seam and Loc Seam 360 standing seam roof panels offer a flat profile for an attractive appearance on higher pitched roofs and are available with 12" or 16" of width coverage with 2" high ribs. Loc Seam 360 panels have full 360-degree rolled seams formed with an electrical seaming machine.

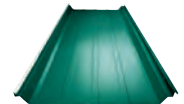


### STANDING SEAM II & STANDING SEAM 360

With ABC's standing seam roof systems, the roof floats on a system of sliding clips that prevent damage from thermal expansion and contraction. For greater weathertightness, standing seam designs also eliminate 80% of the through fasteners found in other systems. ABC's Standing Seam II and Standing Seam 360 panels provide 24" width coverage with 3" high ribs. Standing Seam 360 panels are joined by an electric seaming machine, developing a full 360-degree rolled seam to ensure weathertightness — a seam type preferred by many architects and specifiers.



STANDING SEAM II



STANDING SEAM 360



Bainbridge High School, Bainbridge, GA

## ACCESSORIES

In addition to providing a comprehensive metal building system, ABC offers a variety of optional products sourced from reliable outside partners to accessorize and enhance virtually any building system thus making ABC a single-source supplier for custom-engineered metal building systems. Some of the many accessories available with an ABC system include:

### INSULATION

No metal building system would be complete without insulation, available as either blanket insulation or foil-faced rigid insulation in a variety of thicknesses and vinyl facings.



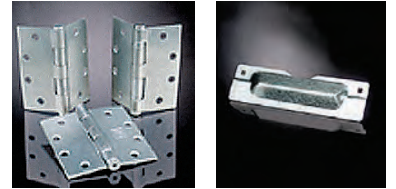
### PRE-ASSEMBLED WALK DOORS

The ultimate in walk doors: ABC Premium doors are available in knock-down or pre-assembled. ABC's factory-assembled walk door systems include all hardware and the subframe (framed opening) for quick installation. They can be installed in under half an hour with no additional cutting, welding or painting.



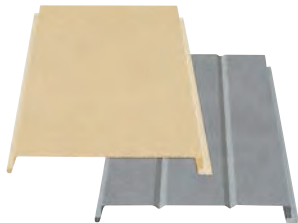
### DOOR OPTIONS AND ACCESSORIES

Enhance your pre-assembled door system with factory-installed options and accessories such as standard-duty or heavy-duty closers, panic devices, standard mortise locks, ball-bearing hinges, latch guards, or glass "lites" or glass panes available in narrow, vision or half glass.



### WINDOWS

Improve the view with a window system designed specifically for metal building systems, available in standard or custom styles and sizes in standard, narrow light or thermal barrier options.



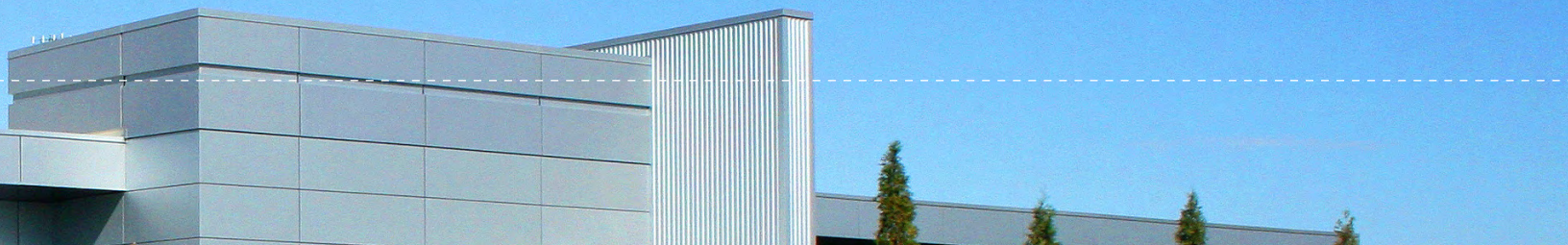
### SOFFIT PANELS

Designed for commercial soffit or fascia applications, where a flush modular appearance is desired, painted steel flush soffit liner panels are made of 24-gauge zinc-coated or aluminum-zinc alloy-coated steel with standard profiles available in 12" widths.



### DOWNSPOUTS AND ELBOWS

Essential for proper drainage, downspouts and elbows are available in 29-gauge corrugated zinc-coated or aluminum-zinc alloy-coated steel with a color-coordinated pre-painted finish.



### PIPE FLASHING

To eliminate the possibility of water back-up, which can cause leaks, single-piece pipe flashing is made from an EPDM membrane and is flexible for mounting on any roof slope.

### METAL WALKWAY SYSTEMS

To prevent standing seam roof damage during installation and routine maintenance, metal walkway systems protect a roof from dishing or puncturing due to foot traffic and can allow roof access in any weather condition.



### RIDGE VENTILATION

Balanced low profile ridge ventilation systems are made to best utilize natural forces and are ideal for hard-to-vent soffit details like zero overhang, stucco or open-rafter applications.

### RIDGE VENTS

To allow the movement of fresh air through a building while removing hot, stale and contaminated interior air, stationary, gravity-flow single or continuous ridge vent systems can properly and effectively control air movement.



### WALL LOUVERS

Wall louvers provide excellent ventilation in vertical positions and are self-mulling and self-flashing, requiring no additional flashing to complete installation.

### GRAVITY VENTILATORS

Designed for economical, low-volume air movement to ventilate warehouses, light industrial buildings, attics, lofts and other buildings, gravity ventilators create a free, unobstructed flow of ventilation air.



ABC IS IN CONSTANT PURSUIT OF EXCELLENCE IN THE DESIGN, TECHNOLOGY, MANUFACTURE AND SERVICE OF ITS METAL BUILDING SYSTEMS. With over 70 years of distinction for its wide variety of high-quality products offering total solutions for a multitude of custom engineered metal building system needs, ABC soars above the rest. Supported by a network of Builders throughout the U.S., Canada and the Caribbean together with manufacturing and service centers across the U.S., ABC can address nearly every need.



CLOCKWISE  
Tim Smith Garage, Fort Walton Beach, FL  
Yamaha of Camp Hill, Camp Hill, PA  
Huntingburg Event Center, Huntingburg, IN  
St. George Fire Station, Baton Rouge, LA  
The Killian Group of Companies, Springfield, MO





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