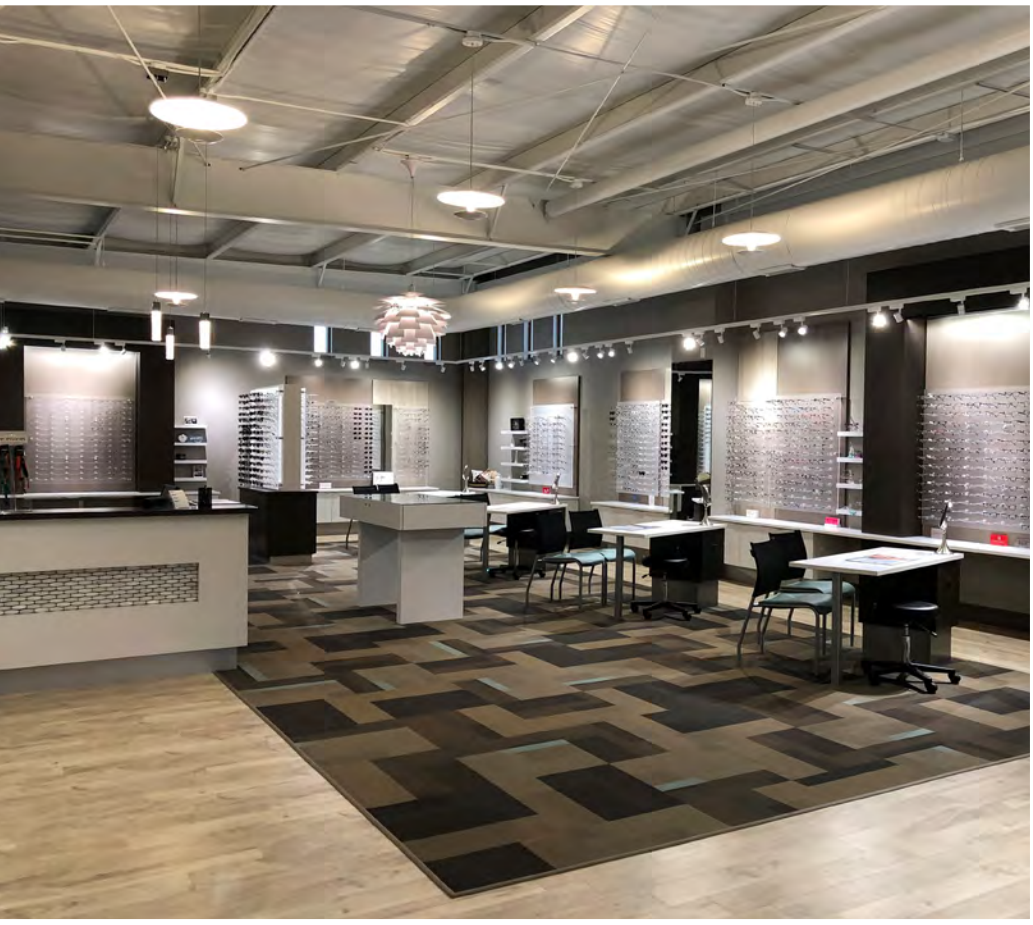
AMERICAN BUILDINGS
a NUCOR company

CASE STUDY

PIERCE VISION SPECIALISTS



For Pierce Vision Specialists building owner, Dr. David Pierce, knowing what he wanted for his new optometrist clinic building was not complicated. He had previously built a clinic and knew what he liked and what he didn't like. Williams Construction Company, an Authorized American Buildings Company Builder, with direction from Dr. Pierce, decided on an initial physical size and design concept based on the ideal interior layout. Through eQuote, an ABC estimating, scope generation, and design software, Williams Construction was able to create layouts, various options, different material options and combinations for the exterior finishes, and how the facility would look both on the exterior and interior.

"Williams Construction Company is very knowledgeable about our software and tools to help them set up budgets and designs," explained ABC District Sales Manager Billy Shields. "Unique to Williams is their ability to layout a design on the front end knowing how metal buildings work, and the end product will look really nice and be cost effective."

The Pierce Vision Specialists facility incorporates many materials — becoming what Tim Gorman, project manager at Williams Construction, calls a hybrid steel framed structure. "What I like about ABC is nothing is pre-engineered about a pre-engineered metal building. That's where I use the word hybrid — everything is fully custom and the design process is fluid, which allows us to integrate a lot of different materials that all work together in conjunction with the overall steel structure. We like how unique this project turned out - it's truly a metal building, but it doesn't have the appearance of a standard metal building."

The 8,300 square foot facility, located in Springfield, Missouri, utilizes a single-slope ABC steel structure framing system. The walls use ABC Architectural V Rib wall panels on one side of the building with the front and remainder of the building using metal panels by others. The roof is also metal using ABC's SS 360 standing seam roof system.

"The ABC Standing Seam 360 Roof System is one of the best in the industry," said Gorman. "It's a fast and economical solution when installed, and the lifecycle is much superior to other traditional roofing systems — it performs better and lasts a long time."

One of the unique features of the facility is the mixture of high-end finishes combined with exposed structural steel in the interior. The metal columns and open ceiling were used as accents, rather than being concealed and covered. The striking contrast of polished solid surface next to exposed steel and architectural features create a modern combination that you don't normally see blended together.

The exterior of the building integrated various metal claddings consisting of "white" aluminum composition metal (ACM) panels fabricated in various thicknesses, creating different shadow and sight lines in combination with flat ACM panels without the step design as a background for the Pierce Eye Specialists logo.

Along with ABC's Architectural "V" Rib and ACM panels, there were also three different horizontal concealed fastener panel profiles by others that were used together along with stone veneer completing the unique exterior building elevations.

The canopy covering the entrance at the front of the building was not required as a structural support, but the ABC standard slim line canopy, along with a non-load bearing white "V" metal structure (standing for Vision) were used for aesthetics.

"In today's building environment, there is nothing pre-engineered about a pre-engineered metal building. They are not all the traditional metal buildings of the past, they are dynamic pieces of architecture, with the advantage of speed in which it can be delivered and built."

The optometry industry has changed over the years with technology and new equipment evolving. The interior space was designed with extra technology rooms that will be needed in the future. The PEMB structure allows for a wide-open span. In the waiting room area, the HVAC system was chosen for the ceiling and all pieces were painted white. "Our patients say how beautiful and modern it is," said Dr. Pierce. "We wanted to cater to the millennials, but even the older population like the modern finish inside. The optical showroom measures at a height of 17' 18". The interior structural elements of the metal building roof structure were painted to match in color. All the glass and displays are vibrant compared to the surroundings. We also chose illumination for the cases that shine upward and downward."

Due to an ending lease for the owner, the most challenging aspect of the project was the quick timeframe. With the design starting in November and the need for the new clinic to be up and running in August, it was a fast-track project. "I'm not sure we could have done that without the main component of the building being American's steel structure," explained Gorman. "When you have a unique challenge you have to overcome, it makes it nice to work with people so knowledgeable. On top of all the details, especially with a project that has this many features, having everyone on the same page is key."

Space, visually pleasing and the flow of patient care was paramount to the success of this facility. "Our building is a commercial building, an optometric practice," said Dr. Pierce. "The beauty of our building is the space and patient flow and how it was designed. The building is visually pleasing, has open air space, tall ceilings, the technicians are centrally located, and foot traffic is minimal, as when patients leave their exam, they go directly to the optic area to view frames. One hundred percent of the design is based on function and need of space."

AMERICAN BUILDINGS
a NUCOR company

GOING GREEN IS EASIER WITH METAL BUILDING SYSTEMS FROM AMERICAN BUILDINGS

As an ISO 14001 certified manufacturer, American Buildings is dedicated to protecting our environment and reducing waste. All four divisions have achieved accreditation under the International Accreditation Service (IAS) AC472 Inspection Program for Manufacturers of Metal Building Systems. Every 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 steel making. In fact, the energy Nucor saves through recycling compared to conventional steel production is enough to power Los Angeles for 8 years. The typical American building is manufactured from at least 70% recycled steel. To top that, at the end of its useful life, 100% of an American building can be recycled into a variety of steel products, including new cars, appliances, buildings and bridges.

American Buildings was the first metal building 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.

AMERICAN BUILDINGS
a NUCOR company

americanbuildings.com