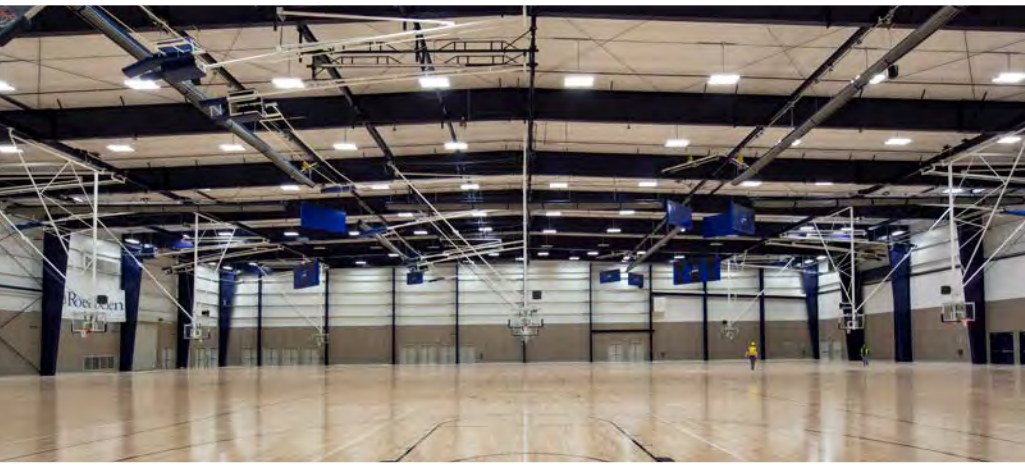




CASE STUDY

PLACER VALLEY EVENT CENTER





Once something beneficial is taken away from us, we tend to appreciate its value a little more. These days, we know how socializing and interacting in healthy activities together is so important to our well-being. When it comes to community spaces, the Placer Valley Event Center, located @theGrounds Placer County, in Roseville, California, is an excellent reminder of how valuable opportunities for gathering is to our human nature.

The new event center, with the intent for numerous uses, including all types of athletic events, as well as meetings, tradeshow, and conventions, compliments the entity of @theGrounds. It's also home to nearly a dozen unique, newly renovated event venues, set in a vibrant community.



The flexible, event center space is the ideal facility for hosting sporting events or any large gathering, as the venue features 160,000 square feet of space, 12 basketball courts or 24 volleyball courts, and is capable of housing meetings of up to 6,000 people. The details of the new facility, completed in February of 2020, are in abundance – all elements needed to accommodate a large variety of events. In the gym, there are beautiful maple floors and power outlets at every court. A neutral color scheme throughout the facility, that has 10,000 square feet of lobby space and 8 meeting rooms, allows for specific branding per event. Additionally, there is outdoor space, plenty of parking, and a loading door.

The project, built by Authorized American Buildings Company (ABC) Builder, Roebbelen, is an ABC pre-engineered metal building consisting of two structures, and two lobby spaces. The main event center space, a symmetrical gable design, is a 251' x 435' clear span with no interior or intermediate support columns. The eave height is just over 44', which allows for an internal clear height of 35' in the entire space. In addition, there is an 80' x 462' single slope support building attached to the south side of the main building, which houses the restrooms, offices, meeting spaces, and storage areas. Two lobby spaces – one a single slope design, while the other a lean-to – complete the facility.

“The primary requirement for the main event space was a layout that would accommodate 12 total basketball courts in a 3 wide by 4 deep layout, without any support columns in the middle of the building,” explained Michael Forbes, vice president of preconstruction services at Roebbelen. “A secondary design requirement was to achieve a 35' clear height in the event space to the bottom of all ceiling-supported equipment. The building also needed to be designed with the potential for future expansion to accommodate another 3 basketball courts.”

The expansive building is clad with ABC's Standing Seam 360 roof system, designed to float on a system of sliding clips that prevent damage from thermal expansion and contraction. The structure



also features DM-40 Insulated Metal Panels, with a low profile and linear exterior, for its wall system. In addition, 1.5" polycarbonate translucent wall lights, designed to fit into the insulated metal panels, were utilized in the lobby spaces to bring in natural daylight.

As with all projects, challenges are inevitable. The main challenge in this construction, was the sheer size of the structural components. "They presented an engineering challenge when erecting the 250' long rafters that spanned the main space," said Forbes. "We erected the main exterior column and then came in the middle and brought up the rafters. The staging and sequencing of the steel, so you're not in your way while you're doing that, is the trick for filling a building of that size and magnitude."

As an Authorized ABC Builder since 2017, Forbes indicated that ABC's early partnership was key to the success of this project. "ABC's involvement was fundamental in the early design process as the team worked to design a structure that would satisfy the owner's requirements and offer the best value, while still remaining within their strict budget," said Forbes.

The successful project and partnership were a mutual feeling, according to Jason Kroll, ABC district sales manager. "Any chance we get to be on the front end of a project and work with the project team, those types of projects seem to be far more successful for the pre-engineered metal building manufacturer than jumping in after the fact. It's been a great partnership thus far and we work well together. We appreciate their business and the opportunity to be a part of their projects."

Utilizing ABC pre-engineered metal buildings for their projects, not just this particular structure, comes with numerous benefits for Roebbelen. "The ability to leverage the design process by teaming ABC and the design team together to work out prototypes or concept designs that can be used in multiple sites for our clients," explained Forbes. "Because ABC's parent company, Nucor, is the largest recycler in North America and the purchasing power it has to control the cost of steel at the raw steel making stage and subsequent effects of the cost of steel fabrication. We have been able to sell this to our clients to mitigate their budget and escalation concerns."

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**GOING GREEN IS EASIER WITH
METAL BUILDING SYSTEMS FROM ABC**

As an ISO 14001 certified manufacturer, ABC is dedicated to protecting our environment and reducing waste. All four ABC divisions have achieved accreditation under the International Accreditation Service (IAS) AC472 Inspection Program for Manufacturers of Metal Building Systems. 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 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 ABC 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.

ABC 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.



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