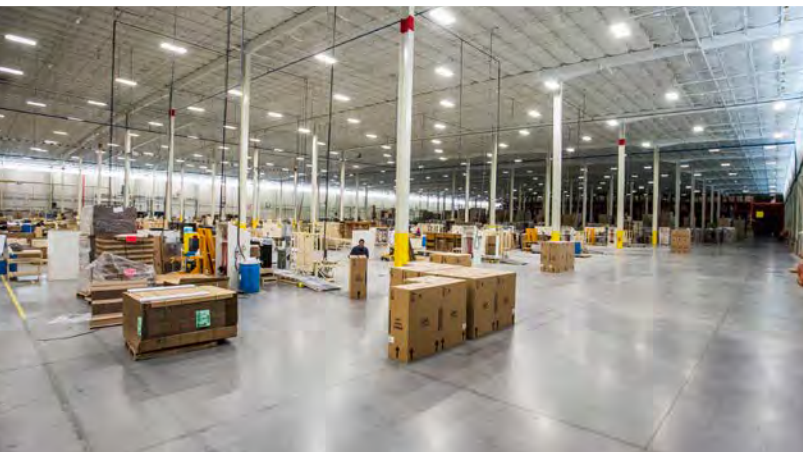




CASE STUDY

ASHLEY FURNITURE INDUSTRIES

MID-ATLANTIC REGION MANUFACTURING & DISTRIBUTION CENTER





Ashley Furniture embarked on a massive expansion to its 640-acre Mid-Atlantic Furniture Manufacturing and Distribution facility in Davie County, North Carolina. To compete with growing demands for goods in today's market and in order for the property to be developed for its intended use, the Ashley Furniture expansion project consisted of constructing a 1.1 million square foot building addition to connect its existing 1.7 million square foot warehouse and manufacturing facility.

Ashley's facility in Davie County is the company's fifth major distribution and manufacturing center in the United States and one of 13 total production facilities that Ashley operates around the world. Once running at full capacity, the mid-Atlantic facility will be producing 16,000 pieces of upholstered products each week for customers mostly in the Southeast and will also serve as a major export hub for international markets.

Nucor Building Systems partnered with contractor, Shelco, Inc for the expansion, and a pre-engineered building system was selected as the ideal solution for the project. To accommodate the building size requirements, the scope included a total of four connected structures (a 783' wide x 1001' long gable building, a 363' wide x 29' long single slope building, a 421' wide x 650' long gable building and a 51' wide x 421' long lean-to building) that were erected utilizing the Nucor ClearBay® bolted roof joist system.

The Ashley Furniture Mid-Atlantic Region Manufacturing & Distribution Center used 3,700 tons of pre-engineered steel totaling 1,090,356 square feet.

In addition, the buildings feature full length Nucor Translucent Wall Lite Panels that allow natural lighting to penetrate inside the building. The interior has full wall Nucor Liner Panel in PVDF finish and ridge elevations up to 48'. The facility is designed with a partial mezzanine above the warehouse area to be used as office space as well as a 1,200 sf single slope pump house.

The exterior of the building is finished with Nucor Classic Wall™ Panel and uses a Nucor CFR™ Standing Seam Roof System.



"In my 20 years in the metal building industry, I have never seen a project that was as well coordinated as the Ashley Furniture project."

One of the many benefits to Ashley Furniture of using Nucor Building Systems as the pre-engineered building manufacturer was a quicker construction timeframe. This was due to Nucor's full-service staff and large capacity that enabled them to design and fabricate a building of this magnitude while consistently keeping the erectors supplied with erectable steel.

The Nucor team also utilized Building Information Modeling (BIM) technology to create a digital prototype that incorporated all aspects of the building from framing to components and mechanical systems. This improved the coordination amongst various trades on the project and specifically, solved a design challenge with the sprinkler sub-contractor, resulting in a more cost effective sprinkler design.

Nucor Building Systems' "Made in America" credentials, as well as the flexibility and dedication of their management, sales and planning teams were a tremendous asset to the client. The NBS team went to great lengths to develop a strategic plan for this facility based on the project's individual solutions and budget, and continued to make efforts throughout the dynamic construction process to ensure the project was delivered on schedule.

"In my 20 years in the metal building industry, I have never seen a project that was as well coordinated as the Ashley Furniture project," said District Sales Manager of Nucor Building Systems, Rob Simpson. "From the initial stages, Nucor Building Systems put together a team of key individuals to investigate scope, interview the client and his construction manager and determine the best design solution for the project. By involving an integrated team of professionals to address all aspects of the project, Nucor was able to produce a design solution that addressed all of the customer's requirements in the most cost and schedule effective way possible. We were able to anticipate field problems, maximize design efficiency and produce a one million square foot project both on time and on budget."





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Nucor Building Systems has been a leader in the design and manufacture of custom-engineered metal building systems for over three decades. With four locations and a network of over 1,200 Authorized Builders serving all of North America, our focus is on customer service, price, and quality. We are also dedicated to providing sophisticated building solutions for our customers that are energy efficient and environmentally friendly.

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