



**NEW MILLENNIUM**  
BUILDING SYSTEMS  
**Building a better steel experience.**

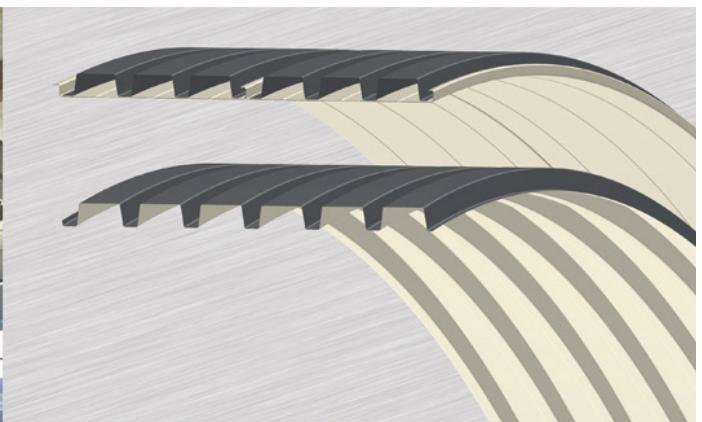


## DESIGN IDEAS

February 17, 2016

# Bend steel with your mind

***Along with advancements in the manufacture of steel joist and deck building systems comes new ways of thinking about building design and construction.***



### You now have a greatly expanded portfolio

Today's special profile steel joist and deck building systems are uplifting new architectural ideas and roofline shapes. The specification tables for these types of systems have been vastly expanded in recent years. So it is now much more practical for an engineer to achieve more imaginative architectural goals using these versatile steel building systems.

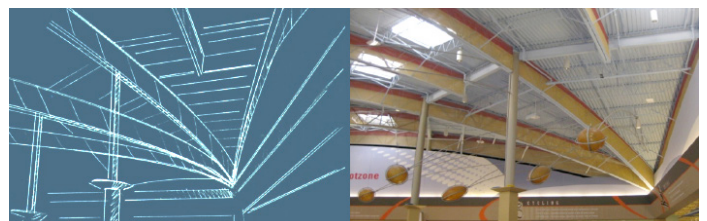
As engineering technologies have merged to create programs such as BIM, architects' designs are becoming more complex and inspiring. Engineers are challenged to turn these visions into tangible realities and the right steel building system will do so when it accounts for total project costs and timelines, as well as architectural ambition.

While any building project starts with the architect's vision, there is a complex dance between the architect and the engineering teams to make early drawings come to life. To facilitate this process, it is vital to involve the steel joist and deck building system engineers at the initial design phase to achieve both the vision and to help minimize related construction costs to the owner.

*Terminal 2 at Raleigh-Durham International was built with a curve in mind. The curve decking allowed the design team to create striking ceiling and roof configurations using a smooth curved steel building system. These looks are further enhanced with the ability to provide concave and convex curvatures and acoustical properties.*



*Architect's vision of exposed truss was central to the interior design of the Detroit airport. The vision was cost-effectively achieved with engineered steel barrel joist systems. Finished airport roof, steel deck and support structure were the result of an upfront collaborative design process.*



*The vision of the roofing structure for the Pittsburgh Mills mall presented a unique challenge. The vision was achieved through early steel joist and deck system engineering support.*