

 **BEHLEN**  
Building Systems

EagleSpan®



*Good Iron. GREAT Experience!*

# EagleSpan® - A Unique Behlen Product

Too often, metal building designs are constrained by a process that limits our imaginations. The “standard” for roof design revolves around various flat plane concepts, such as single slope, gable, and hip roofs. Behlen Building Systems is proud to say we’re “throwing a curve” at traditional thinking.



## Benefits of the distinctive EagleSpan® curved roof system include:

- A true radius frame (not segmented) that can clear span up to 200 feet
- Beams fabricated in our manufacturing facility (single sourced) thus minimizing costs while maximizing quality
- Easy integration into traditional metal building design procedures
- Standing seam roof system is standard
- Frames have factory-applied gray primer finish coating for a clean, polished look

## A Distinctive Concept...

Behlen has an innovative three-plate beam design featuring a unique trapezoidally shaped web which provides greater stability. The corrugations result in a stronger web than flat plate webs and oil-canning is virtually eliminated.

The corrugated web beam design is an important consideration for buildings with longer spans. Top and bottom flanges are kept in alignment – resisting the typical torsional displacement that can occur with flat plate webs.

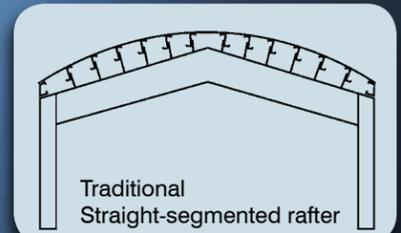
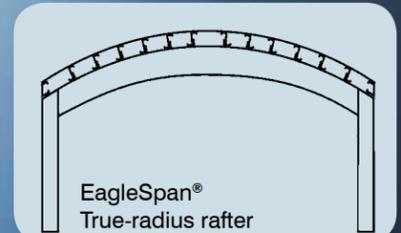


## ...That Transforms into a Unique Curved Roof

The corrugated web possesses the inherent capability to shape the beam into a true-radius curved rafter. The traditional method for fabricating curved roofs involves straight rafter segments with graduated length roof purlin clips to simulate a curve. EagleSpan® simplifies and standardizes the process by actually curving the rafter and attaching equal-length clips at our factory. The design delivers the capability to be truly curved into a beautiful arched roof (from 50 foot radius and up). The result is a precisely fabricated frame that’s easy to erect while providing a more finished and aesthetically pleasing inside appearance.



Fanning out a simple folded sheet of paper shows the concept of the corrugated web beam design.

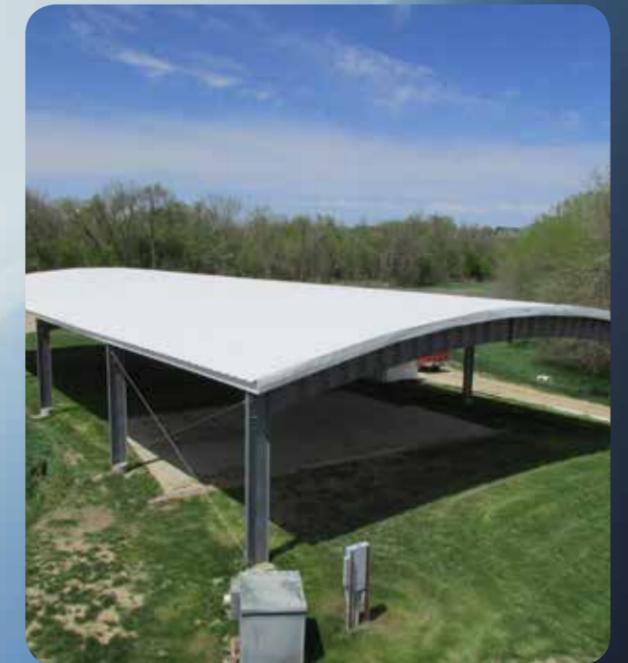


The true curve of EagleSpan® (top diagram) offers three key advantages over straight rafters with graduated length purlin clips (bottom diagram): the lower cost of uniform clips, a broad range on the radius of the curve, and the congruence of an interior curve to maintain consistency with the exterior.

The technology of the EagleSpan® framing system provides considerable benefit to the designer, contractor, installer and building owner. Numerous wall and roof covering options are permissible (see page 7 for details).

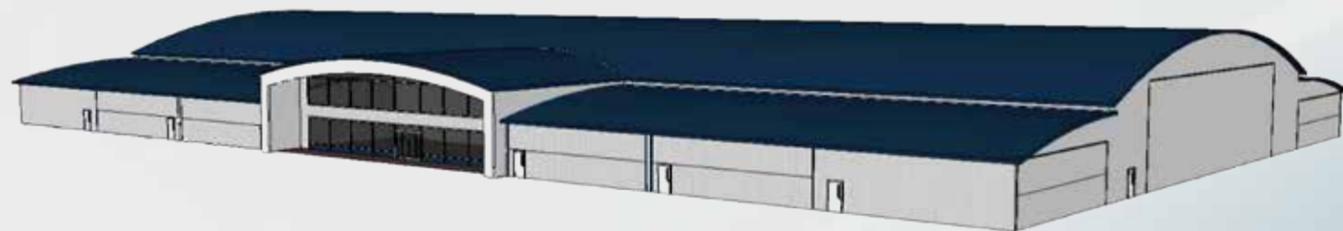
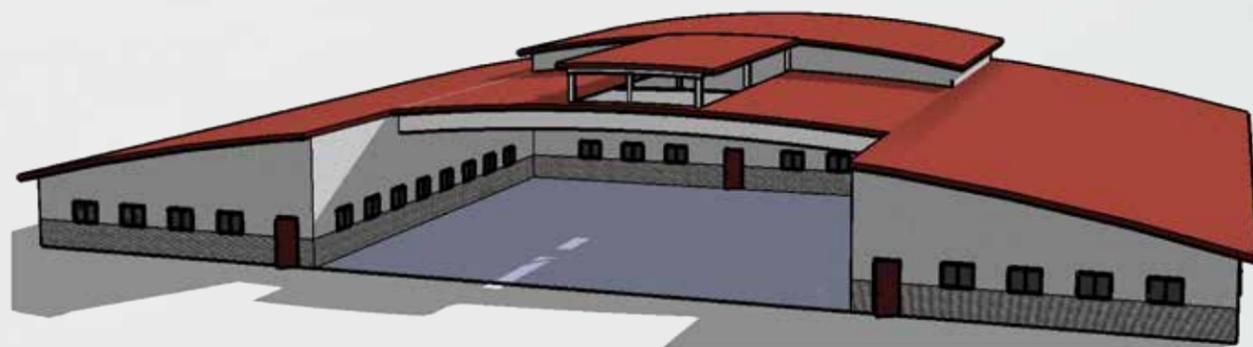
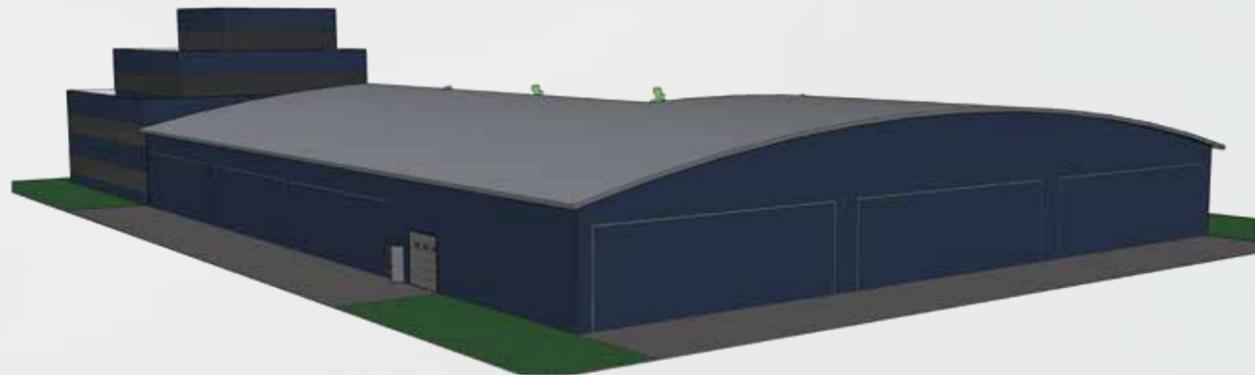
# Expand Your Horizons...

If you're looking for the most modern, advanced structure available, look no farther than this unique product from Behlen Building Systems.



# Think Outside the Box – With Curves...

These conceptual drawings demonstrate the design flexibility EagleSpan® provides.



## The choice is yours — you have complete design freedom!

### Roof Covering Options:

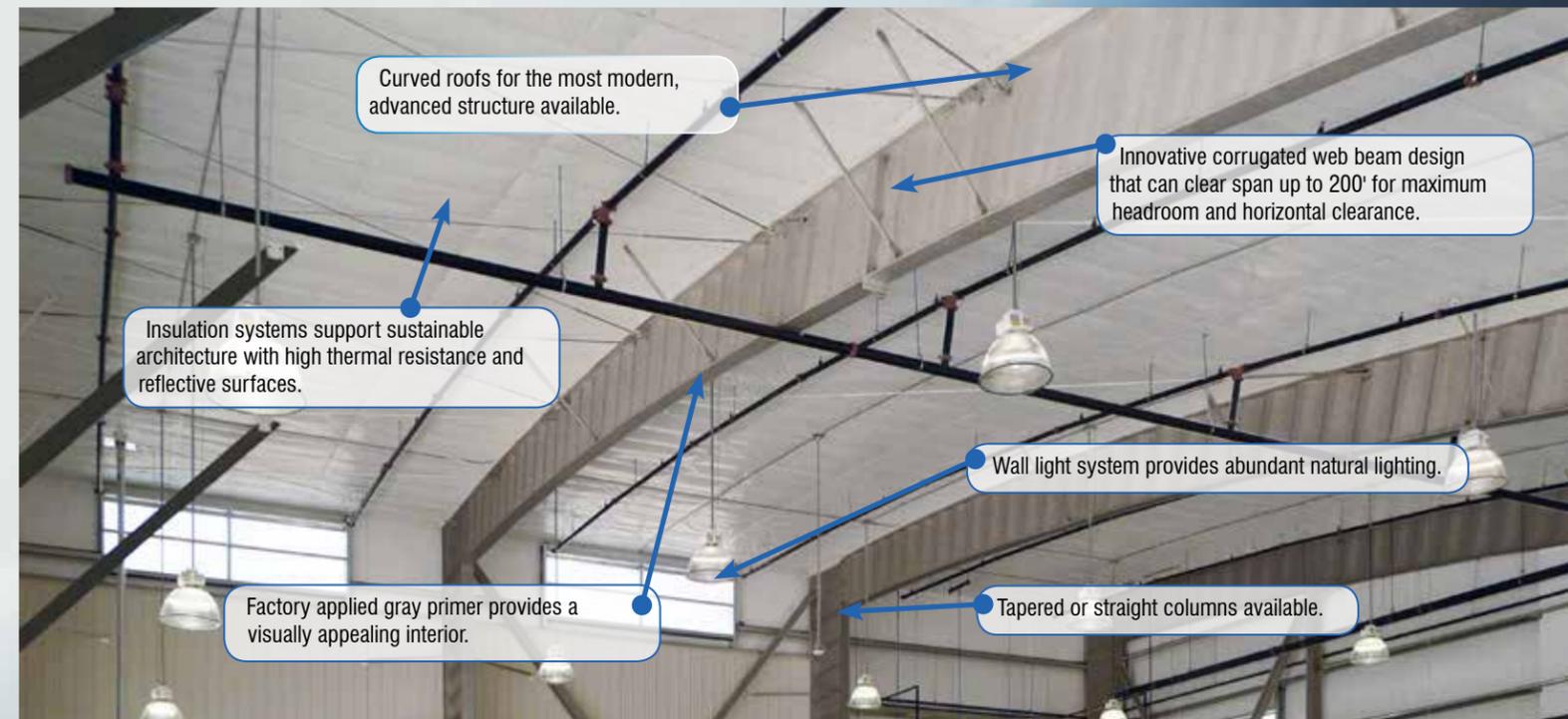
- 16" coverage x 2" vertical rib standing seam panel standard
- Mechanically-folded seams
- Substrate of Galvalume®
- 22 or 24 gauge thickness
- Ceram-A-Star® or Kynar color finish
- Panel support clips provide for thermal expansion/contraction
- Other panel options include through-fastened or other architectural profiles

### Wall Covering Options:

- Metal panels (smooth or textured)
- Factory insulated panels
- Wood
- Glass
- Brick
- Concrete
- Masonry



## EagleSpan® Unique Features and Applications...



### Focus Features

- Corrugated webs for an eye-catching view
- Galvanized purlins/girts
- True curved beams
- Energy efficient insulation systems
- Clean gray primer



## What does it mean to do business with the Good Iron People?

- You're part of a culture where your business truly matters, and our Partners in Progress (employees) have a vested interest in helping you win in the marketplace
- We believe in Mutual Trust and Respect and it shows in every building – every time
- A drive for Value Added Customer Satisfaction. After all, it's the cornerstone of our quality system
- Dedicated District Managers and Project Coordinators who oversee the entire process of your order through delivery
- A determined “will to win” work ethic when it comes to helping our Builders succeed
- The lines of communication are always open and every team member is ready to take your call
- Every Behlen Builder matters. We strive to fulfill the “Great Experience” through our Builder network
- Our experienced design team is willing to take on the challenges of complex building projects
- We're in it together and realize our success is dependent upon the success of our Builders



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**Look:** [www.behlenbuildingsystems.com](http://www.behlenbuildingsystems.com) **Call:** 1.800.228.0340 **Visit:** 4025 E. 23rd St., Columbus, NE 68601