



A Better Way to Build

Building Guide



Federal Steel Systems was formed by industry veterans who share a common vision of creating a Pre-Engineered Steel Building Company that provides quality service along with quality buildings. Through decades of experience with different companies in the Pre-Engineered Steel Building industry, **Federal Steel System's** founders had common frustrations regarding quality service and products. Today their vision is a reality, and the satisfaction of **Federal Steel System's** customers is a testament to a job well done!

We guarantee that by choosing **Federal Steel Systems** you have chosen

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Commercial Buildings

Pre-engineered steel buildings have become a standard form of construction throughout the commercial building industry. **Federal Steel Systems** has the experience and knowledge to assist you, from initial design to completion of your commercial project.

Today we are able to take advantage of the basic concepts of pre-engineered steel buildings (speed and low cost), and use them to build structures that meet and exceed industry standards. Our design experts can help you utilize these basic concepts and incorporate them into your project. You will be amazed at the reduction in costs and the time saved when you use **Federal Steel Systems** on your commercial project.





Along with the advances in design capabilities for pre-engineered steel buildings there has also been tremendous development in products to support the commercial steel building market. **Federal Steel Systems** has a variety of alternate products available that you can choose from to enhance your building.

Check out our standard features that are included in every building on page 18.



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Industrial Buildings

Pre-engineered steel buildings have been used for decades as a cost effective method of construction for industrial use. **Federal Steel Systems** will assist in the design of your industrial facility. In addition, we will incorporate products that help you take advantage of the latest technology available in the pre-engineered steel building industry.

Federal Steel Systems has the capabilities to offer clear-span building widths up to 250' and bay sizes up to 60' when design calls for it. **Federal Steel Systems** can design your structure to support a variety of different crane systems, roof top air handling units and various other point loads that may be vital to your facility. For buildings that require a strict climate controlled environment, **Federal Steel Systems** can incorporate wall and roof panels that provide some of the highest R-Values in the industry.

Call us today and let **Federal Steel Systems** help you design the perfect building for your needs.



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Shop & Utility Buildings

Federal Steel Systems has many options available when designing a shop, garage or utility building. Talk to one of our Building Specialists about your building layout and let us go to work for you!

Federal Steel Systems recognizes that most shop/utility buildings are simple “box” structures. “*ExpressLine Structures*” was developed to support the demand for simple “box” buildings.

Federal Steel Systems’ “*ExpressLine Structures*” incorporate a true pre-engineered building design with rigid frames, a complete sculptured trim package and design loads that are specific to your area. Key benefits of our “*ExpressLine Structures*” save you time and money without sacrificing structural quality, appearance or available options. With our “*ExpressLine Structures*” we can provide permit and anchor bolt drawings as fast as a week after receiving your order.

Upon request, **Federal Steel Systems** can include your foundation plan, which will save you time and money compared to hiring a local structural engineer. **Federal Steel Systems** standard delivery lead time is four to five weeks, although we can deliver your building as quick as three weeks. If you have a special delivery request, just ask one of our Building Specialists and we will do our best to accommodate your needs.





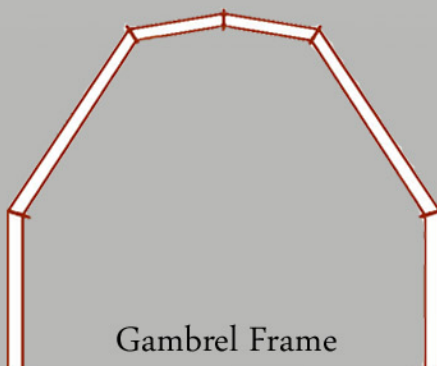
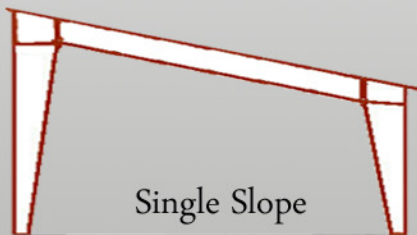
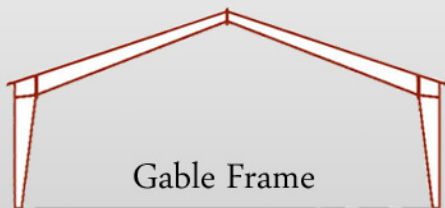
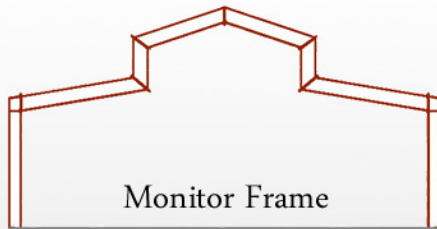
"ExpressLine Structures" Standard Guidelines

- Building Widths: 30' to 100'
- Building Lengths: 30' to 200'
- Building Heights: 10' to 20'
- Roof Pitches: 1/2:12 to 4:12

If the building you have in mind doesn't fit within the *"ExpressLine Structures"* standard guidelines, talk to one of our Building Specialists to assist in designing your structure to insure you receive the *"ExpressLine Structures"* benefits.

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Planning on building a structure for agricultural use? **Federal Steel Systems** will help you plan and design a building to best suit your needs. Our Building Specialists have decades of experience in the agricultural building industry. Barns, Riding Arenas, Hay Storage, Grain Storage, Equipment Storage, you name it and we've done it!

Federal Steel Systems offers several styles of frame types that are designed to achieve a traditional looking agricultural structure, while utilizing the latest technology in pre-engineered steel framing. The results are amazing! Ask one of our Building Specialists for assistance if you would like to utilize one of these frame types on your project.

The appearance of your building is important to us; which is why all **Federal Steel Systems'** agricultural buildings include the same upgraded trim and closure package as our commercial buildings at no additional cost to you! We feel that every **Federal Steel Systems** building should have the same attractive trim and weather tightness regardless of what it is being used for.

Agricultural Buildings



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Aviation Buildings

Federal Steel Systems offers a variety of aviation buildings ranging from small personal hangars to large commercial hangars. Our staff of Building Specialists can assist you in designing the building - and door - that are right for you. The list below shows the most common types of aviation buildings and doors that **Federal Steel Systems** offers.

Hangars

Executive Hangars

Commercial Hangars

Single Nested T-Hangars

Double Nested T-Hangars

Residential Hangars



Doors

Bi-Fold Doors

Hydraulic Lift Doors

Sliding (Rolling) Doors

Pocket Doors

Stack Doors



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Storage Buildings

Federal Steel Systems will help get your storage project started with our design and layout capabilities. **Federal Steel Systems** offers building options for mini-storage, RV storage, warehouse storage, as well as multi-story climate controlled structures. Our team of Building Specialists can assist with unit layouts and help incorporate the newest products available for the storage building industry. Call **Federal Steel Systems** today to get your storage building project started.



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Long-Bay Buildings



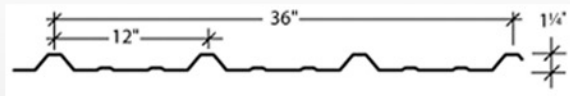
Long-Bay Buildings allow **Federal Steel Systems'** builders to compete in the conventional and tilt-up wall markets. Perfect for manufacturing, warehouse, distribution and large commercial/retail buildings. Long Bay Buildings provide large areas of open floor space by using fewer interior columns than conventional designs. **Federal Steel Systems'** Long-Bay Buildings bays can span up to 60', while maintaining standard pre-engineered steel building benefits of bolted connections. This combination makes for faster and safer erection.

Key features of Long-Bay Buildings

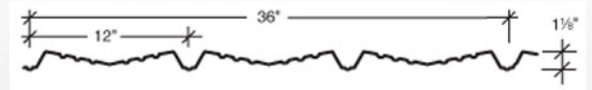
- Bay spacing up to 60'
- Standard and custom design options
- Fast and economical construction
- Ease of expansion
- Ongoing durability
- Long-term energy savings
- Reduced Maintenance costs
- Lighter and stiffer than conventional products

Panel Profiles

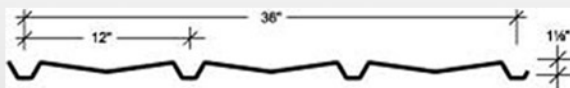
Through Fastener Panels



PBR



AVP

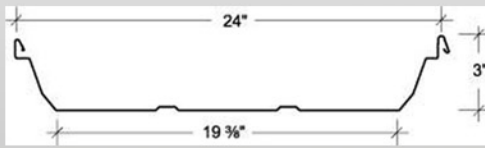


PBA



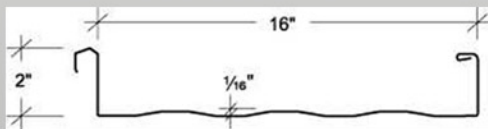
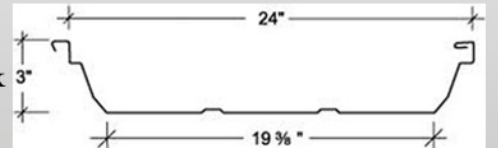
PBU

Standing Seam Roof Panels



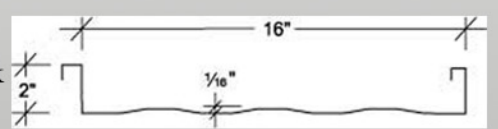
Snap-Lok

Double-Lok



Super-Lok

Batten-Lok



Insulated Panels

LS-36



CF Mesa



Striated



CF Fluted



Tuff Wall

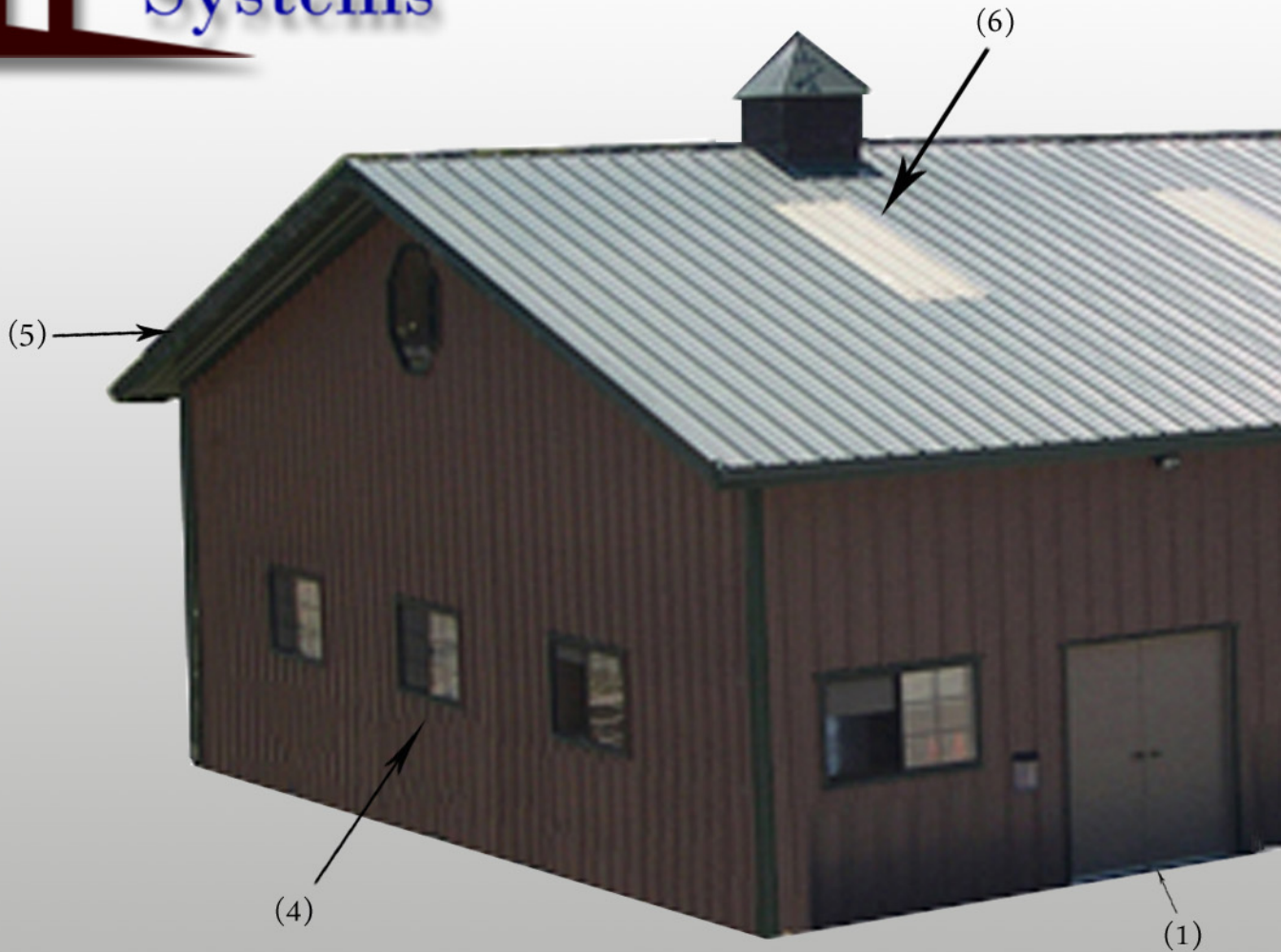


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Federal Steel
Systems

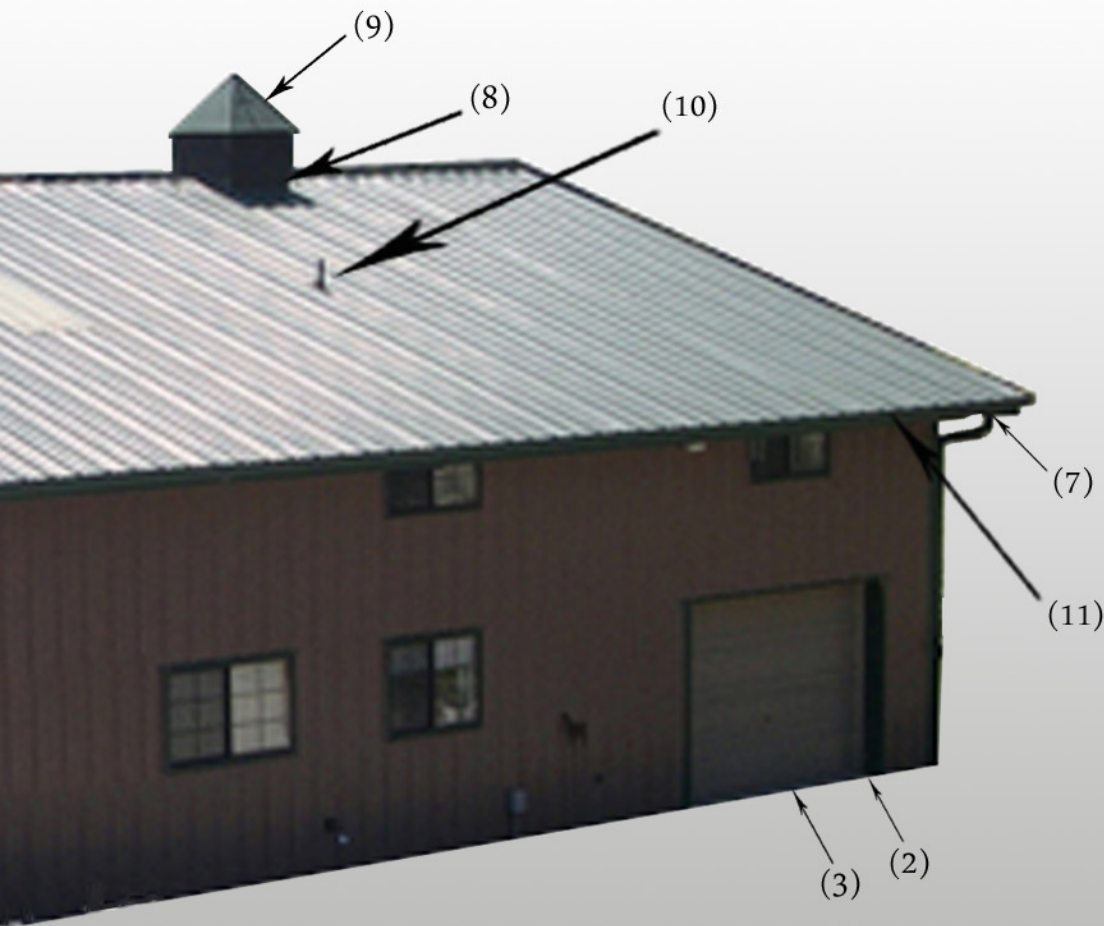
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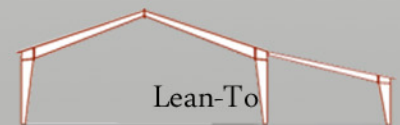
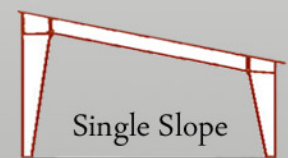
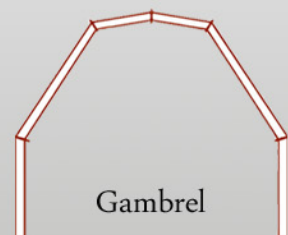
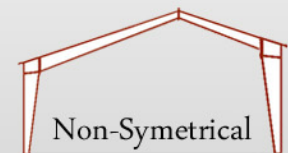
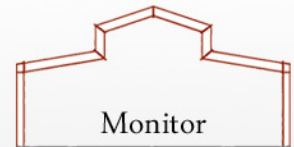
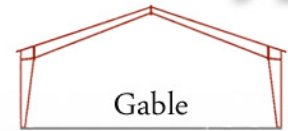
Standard Features

50 KSI Yield Strength Steel Plate ~ 80 KSI Tensile Strength Sheeting ~ 26 Gauge & 24 Gauge Panel ~ Purlin Bearing Rib Panel ~ Minimum 18" Purlin & Girt Overlap ~ Cable or Rod Bracing ~ Full Cover Trim on Framed Openings ~ Sculptured Eave & Gable Trim ~ Base Trim with Flashing ~ Base & Eave Closure Strips ~ Long-Life Roof Fasteners ~ Longer Screws to accommodate Insulation ~ Upgraded Mastic for Roof Panels ~ Certified Roof, Snow & Wind Loads ~ 3 Sets of Engineer Certified Permit Drawings ~ 3 Sets of Engineer Certified Construction Drawings ~ Engineer Certified Anchor Bolt Plans ~ Engineer Certified Design Calculations (when required) ~ Engineer Certified Foundation Plans (upon request)

Way to Build



Frame Types



Accessories

Accessories shown:

- 1.) Walk Doors
- 2.) Framed Openings
- 3.) Overhead Doors
- 4.) Windows
- 5.) Purlin Extension
- 6.) Translucent Roof Panels
- 7.) Gutters & Downspouts

Accessories shown:

- 8.) Roof Curbs
- 9.) Cupolas
- 10.) Roof Jack
- 11.) Canopies

Accessories not shown:

- 12.) Insulation
- 13.) Louver
- 14.) Ridge Vent
- 15.) Sliding Doors
- 16.) Liner Panel
- 17.) Mezzanine
- 18.) Translucent Wall Panels

Accessories not shown:

- 19.) Roof Hatch
- 20.) Snow Gaurds
- 21.) Parapet Walls
- 22.) Mansard/Facade
- 23.) Partition Wall
- 24.) Valley Gutter
- 25.) Crane Beams
- 26.) Crane Brackets



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