



A Better Way to Build

Agricultural Buildings



Agricultural Buildings

Today's agricultural market has increased the demand for maintenance free, permanent structures that can easily accommodate a variety of storage needs. To meet these needs Federal Steel Systems offers the latest in Pre-Engineered Metal Building technology. The agricultural market covers a wide variety of uses -- from hay barns to implement storage, riding arenas to livestock sheds. Whether your needs are for riding, equipment, goods or livestock, Federal Steel Systems will design the right building system to maximize your structure's value. In addition to being permanent, maintenance free structures, Federal Steel Systems offers several options to ensure your building is weather tight and rodent free! Call Federal Steel Systems today and talk with one of our Building Specialists about your agricultural building needs.





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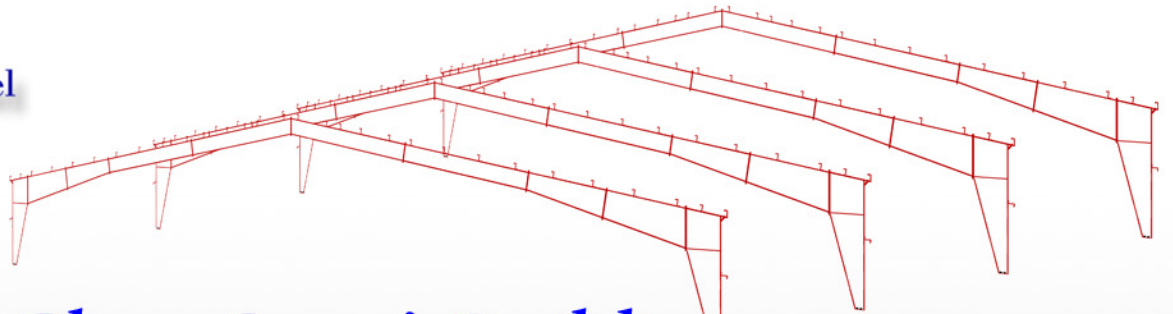
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Gable 'Clear Span' Buildings

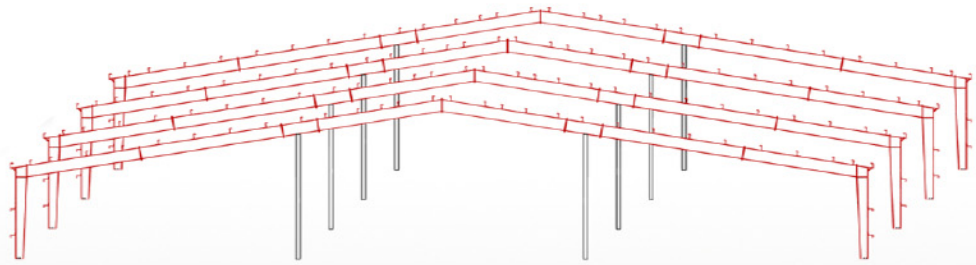
Federal Steel Systems' Gable 'Clear Span' frame design is a popular choice among our customers who are looking for open floor plans to accommodate their needs. Federal Steel Systems can design for 'clear spans' of over 200 feet in width making the gable 'clear span' frame design an ideal choice for indoor riding arenas, implement storage buildings and hay barns.

Trying to decide whether a Pre-Engineered Metal Building or a Pole Barn will best suit your needs? Consider this; pre-engineered metal buildings from Federal Steel Systems are lifetime maintenance free structures. When compared to Pole Barns, Federal Steel Systems provides a much lower cost of ownership when looking at costs involved in maintenance, repairs, heating and cooling. Federal Steel Systems is the 'clear' choice for your next Agricultural Use Building!





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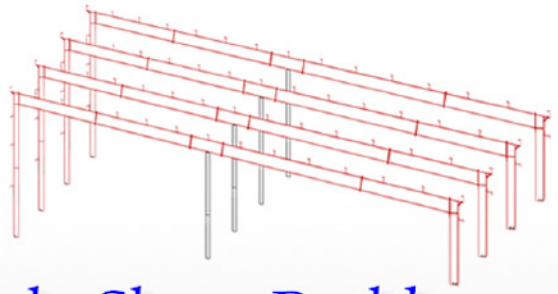
Gable 'Multi-Span' Buildings



Federal Steel Systems' Multi-Span frame systems are commonly used for hay storage, livestock barns and equipment storage buildings that are over 100 feet wide. Multi-Span frames can be designed with either pipe columns or I-beams as the interior structural support columns. Your needs, as well as, achieving the most economical design will determine which type of interior structural columns are used. Many of our customers have saved thousands of dollars by allowing our Building Specialists to "value engineer" using the multi-span frame design. Federal Steel Systems' Building Specialists can help you determine if the advantages of a multi-span frame design would be beneficial to your project.

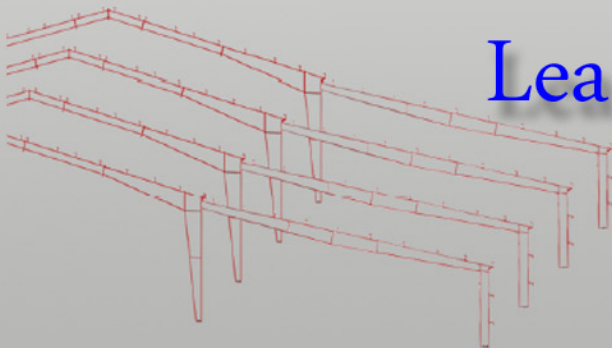


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Single Slope Buildings

Federal Steel Systems' Single Slope frame design, commonly known as a "shed roof", can be designed as a clear span or multi-span frame. This frame design is commonly used for building additions, loafing sheds, hay storage, and equipment storage. Federal Steel Systems can also incorporate this design when site conditions dictate that roof drainage can only flow in one direction.



Lean-To Frames

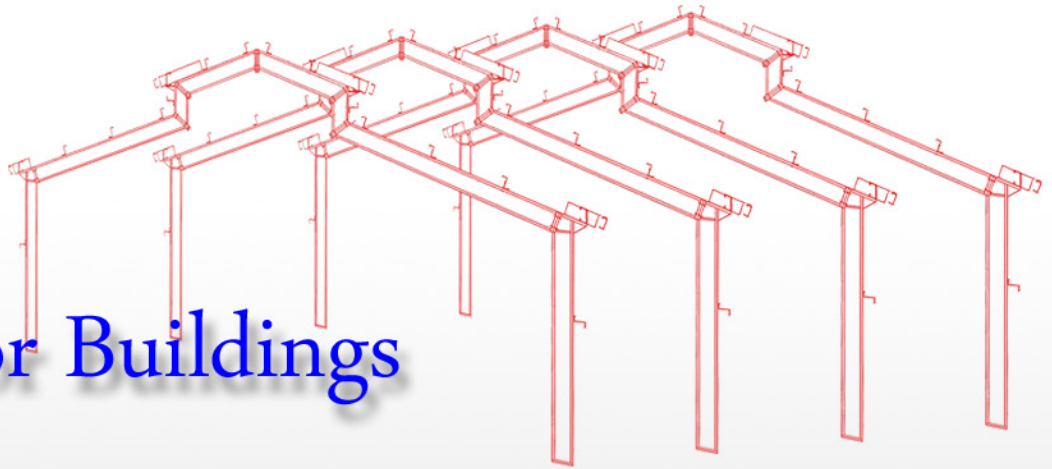
Federal Steel Systems often incorporates Lean-To frames when extra space is needed alongside the main building. Lean-To frames can tie in at the eave or below eave of the main building and require partial support at the point of attachment. Lean-To frames slope in one direction. Like all frame systems, lean-to frames can be designed as clear span or multi-span. Federal Steel Systems' Building Specialists can assist you in determining whether or not a lean-to frame can be used on your project.





Federal Steel
Systems

Monitor Buildings

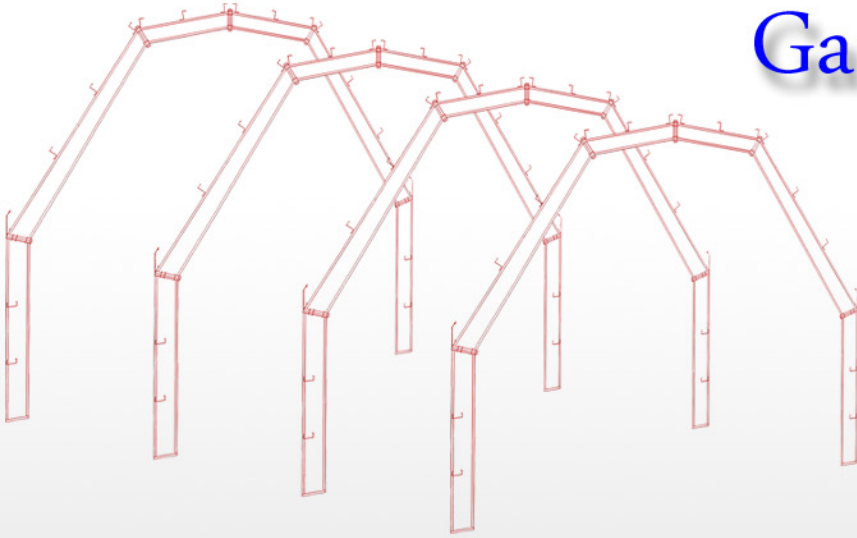


Federal Steel Systems' unique Monitor frame design provides an alternate frame system that offers the latest technology in pre-engineered metal buildings while giving the appearance of traditional agricultural monitor barns. Federal Steel Systems can design monitor frames with either a clear frame or a multi-span frame, which allows us to design for many uses. Our clear span monitor has become very popular for customers who want the traditional "old barn" appearance for their garage, storage building, and yes - even their barn! Multi-Span monitor frames use support columns underneath the roof monitor, and are perfect for framing in stalls and alley ways. Federal Steel Systems can even provide a second floor in the monitor which can be used for storage or a hay mow. Talk to a Federal Steel Systems' Building Specialist to help design the perfect building for your needs.



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Gambrel Buildings



Federal Steel Systems' Gambrel frame design is a mix of traditional dairy barns and today's pre-engineered steel building technology. Traditionally, gambrel style buildings have been used for dairy barns to maximize the size of the hayloft above the dairy roof. Today, you can still achieve the classic look of a dairy barn, and receive the benefits of using pre-engineered steel. The stronger frames used in pre-engineered steel buildings allow these types of buildings to hold up in heavier wind and snow areas, where traditional wood frames have trouble. Additionally, gambrel style buildings can be designed for a number of uses other than dairy barns. They can be used as garages with a loft, or as an entirely open building. Call a Federal Steel Systems' Building Specialist today to find out if a gambrel style building is right for you!



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Accessories

Doors

Roll-up Doors
Sectional Doors
Hydraulic Doors
Bi-Fold Doors
Sliding Doors
Service Doors

Exterior

Gutters & Downspouts
Canopies & Overhangs
Wainscot
Coupolas
Windows
Skylights

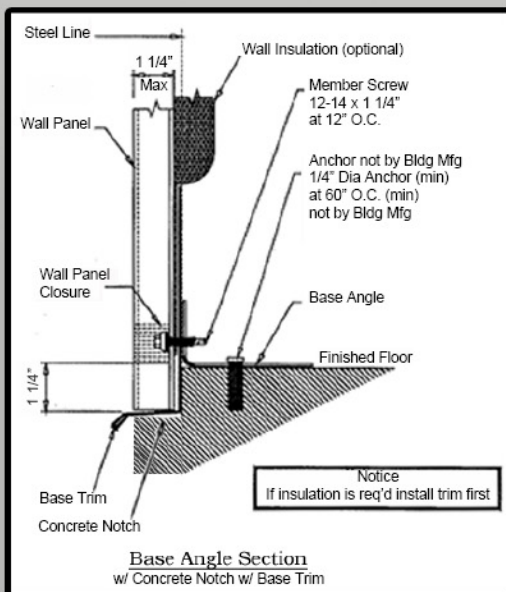
Interior

Liner Panel
Insulation
Partition Walls
Mezzanines

Interior

Liner Panel
Insulation
Partition Walls
Mezzanines

Base Angle Section



Federal Steel Systems' buildings come standard with option that keep your building weather tight and rodent proof! Base angle is used to connect the wall panel to the foundation. In addition to the base angle, Base Trim is used to cover the bottom of the wall panel. Likewise, a Closure Strip, that is die form cut to match the panel profile, is secured between the wall panel and base angle. All of the above work together to ensure a weather tight and rodent free building. A concrete notch used in the foundation is also an option to aid in finishing your building.

* Closure Strip - Die Form Cut to Match Panel Profile (shown as PBR profile)



Pre-Engineered Steel Buildings vs. Wood Frame 'Pole' Buildings

Foundation

Federal Steel Systems pre-engineered metal buildings secure to a solid concrete foundation using high strength anchor bolts. Additionally, base angle with flashing and base closure strips ensure that the building will be frost free, water resistant and rodent proof.

Wood Frame 'Pole' Buildings wood columns are set directly into the earth, much like installing a fence, and offer little or no resistance to water, frost heaving or rodent protection.

Framing

Solid 50 KSI yield strength steel framing is coated with a highly protective primer, which is applied after all cutting, welding and drilling-- so there is no breach in rust protection. Federal Steel Systems offers a lifetime product that does not warp, twist or decay. Steel is a more sanitary product when used for livestock situations and is preferred for permanent installation.

Pressure treated wood warps and shrinks throughout it's lifespan. The foundation frame members shift and lead to pole barns requiring to be re-straightened every 5 to 7 years, costing thousands of dollars in maintenance. Due to the limitations in strength of materials, clear span capabilities are extremely limited. Pole Buildings are not recommended for permanent installations.

Assembly

Extensive assembly documents, plans and engineer certifications, are provided with every FSS building. All plans are engineer stamped and ready for submission to the local building department. All FSS building parts are numbered which allows for easy and rapid construction. SAVE TIME.... SAVE MONEY!

Assembly documents and plans are vague or non-existent for Pole Barns, which will cause unnecessary delays in obtaining permits with the building department. Parts are not usually numbered or sorted causing many hours of sorting, cutting and assembly problems. LOSE TIME.... LOSE MONEY!

Roof & Wall Panels

All FSS buildings come standard with a minimum 26 gauge, 80,000 psi yield strength panel. Minimum 25 Year finish warranties. FSS panels are rust and leak resistant.

Standard panels are 29 gauge, minimum yield strength 36,000 psi. 10 year finish warranty. Steel sheeting fastened to wood framing is likely to warp, leak and rust over time.

Fire Rating

FSS Pre-Engineered Steel Buildings have a Class A Fire Rating. Class A Ratings are the highest rating, able to withstand severe exposure to fire originating from sources outside the building.

Wood Structures have a Class C Fire Rating. Class C Ratings are the lowest rating, able to withstand light exposure to fire originating from sources outside the building.

Insurance

Property and Fire Insurance is approximately 30% lower for a FSS Pre-Engineered Steel Building when compared to pole barns.

Property and Fire Insurance is approximately 30% higher for pole barns when compared to a FSS Pre-Engineered Steel Building



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