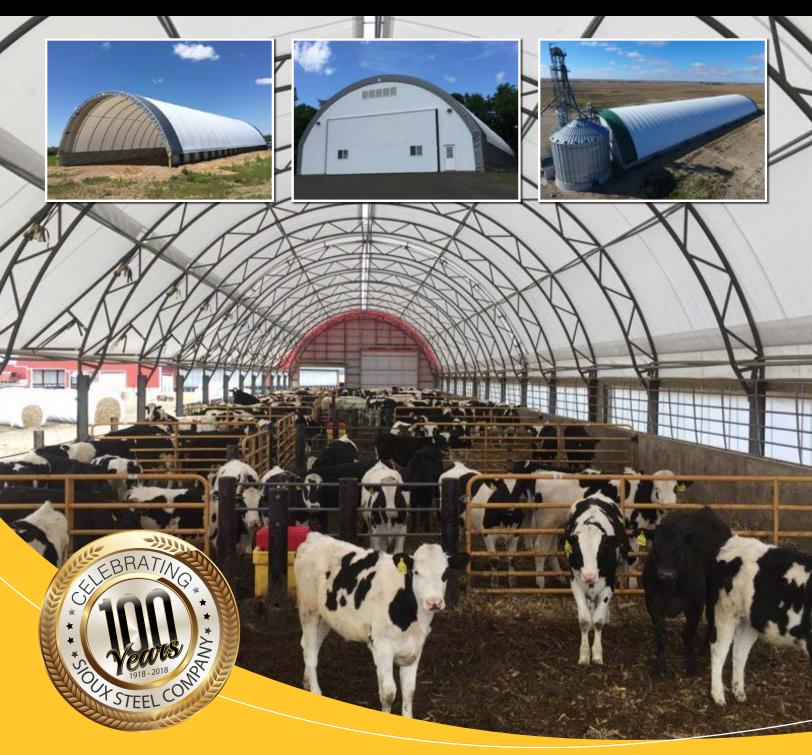


Designed To Meet Your Operational Needs



Contact Us

Thank you for considering Pro•Tec Engineered Buildings. We look forward to discussing your next building project. Pro•Tec Buildings
P.O. Box 1265
Sioux Falls, SD 57101-1265

1-800-557-4689 (605-336-1750) www.siouxsteel.com



Pro•Tec Engineered Buildings

A Division of Sioux Steel Company



Building Solutions

We want to help you get the most value for your building investment.

That's why we have engineered building solutions designed to protect your livestock, equipment, crops and anything else you need to store; while increasing your profits at the same time.

Pro•Tec Buildings provide natural lighting and superior ventilation, while offering unbeatable strength and durability. They are engineered to meet the needs of both small and large operations and are manufactured right here in the USA.

Pro•Tec Buildings are available in open span widths **up to 180 feet** and can be manufactured to any length.



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2 Building Models

Single Tube Widths	Sentry Series Widths
24'	40'
30'	50'
36'	60'
	70'
	80'
	90'
	100'
	110'
	130'
	150'
	180'

Building Uses



Agriculture

- Grain Storage
- Livestock Production
- Hay Storage
- Horse Riding Arenas
- Horse Stables





- Aircraft Hangers
- Aircraft Maintenance
- Manufacturing
- Warehousing
- Machinery Storage & Repair
- Construction Site Covers
- Sand & Salt Storage

Recreational



- Hockey Rinks
- Pool Enclosures
- Sporting Events
- Football Field Covers
- Event Centers
- Convention Space
- Gymnasiums

Household/Private

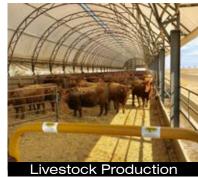


- Garages
- Boat & RV Storage
- Vehicle Maintenance
- Temporary Housing



SHOP ONLINE! :: www.agpartsdirect.com
Search local dealerships or shop Pro-Tec Building packages.











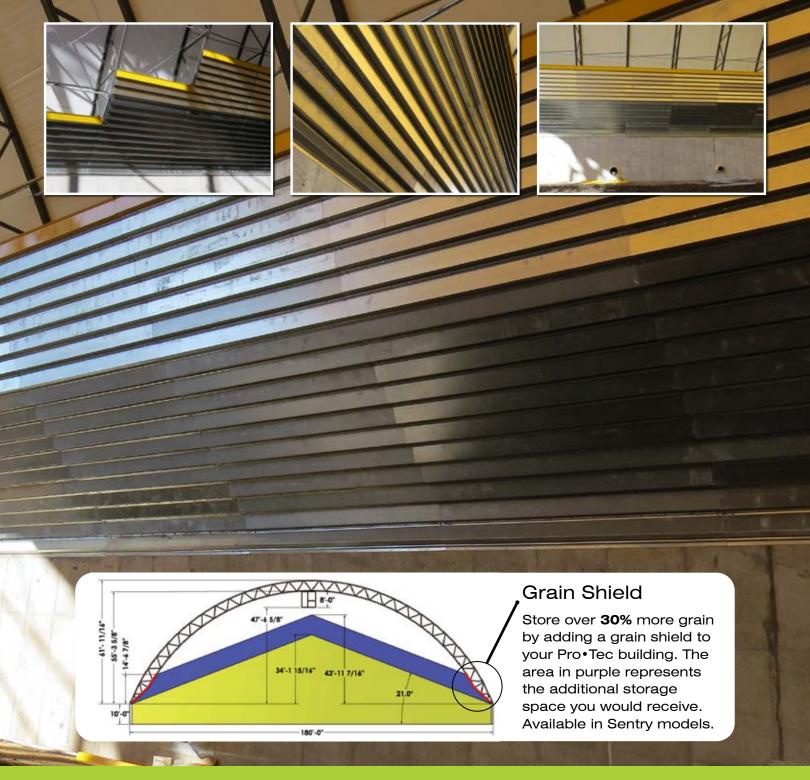












Grain Storage Facilities

- Engineered To Utilize Load-In Conveyor
- Cost-Effective
- Store Commodity & Equipment

As farms and cooperatives grow larger, they are seeking a better way to store their product. Sentry series options are available for just this purpose.

Our buildings fit your needs by offering large capacity economical corn storage! Plus these flexible multiuse storage buildings can serve other storage needs







- **Optional In-Floor Aeration &** Unload Available
- Large Capacity Storage

when not in use for grain storage. Flat grain storage is a popular and costeffective way to store high quantities of grain and other commodities.

Features-

Widths: 24' & 30' w/ 6' rafter spacing; 36' w/ 5' rafter spacing

Frame

14 gauge Allied Gatorshield tubing provides the framework for Single Tube buildings. At 2 1/2" in diameter and 50,000 PSI, it's strong and durable. Gatorshield galvanized coating offers unmatched protection against rust & corrosion.

Single tube frames are covered under a three year warranty.

Cover

Standard woven polyethylene cover with white interior.

Simple Ratchet Tie Downs

The fabric cover is attached and tightened with a ratchet tie-down system. The winches securely hold the cover in place and allow for quick, easy adjustment.

Complete Hardware

Buildings feature no bolts or special tools. All connectors and rafters are plated to fight against rust and fitted for simple assembly. Most importantly, their special design results in a tight, immovable system that interlocks for maximum strength.

Different mounting options, such as wood, steel & cement blocks sold separately.











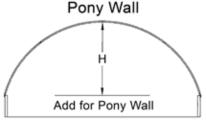




POST PLATE

3-WAY CONNECT

4-WAY CONNECT



Width	Height
24'	9' 3"
30'	11' 6"
36'	13' 9"



Pony Wall Options















Tax Analysis

Because Pro•Tec Engineered Fabric Covered Buildings can be considered temporary, and due to Internal Revenue Code Section 179 Benefit, you may see a substantial tax savings with a Pro•Tec Building compared to traditional wood or steel buildings. Please note this is a general example. It is recommended to consult with your professional tax advisor to determine your eligibility of any tax savings.

\$25,000 Building Comparison w/ Section 179 Benefit				
	Pro•Tec Building	Wood Structure		
Initial Cost of Building	\$25,000	\$25,000		
Depreciation:				
Depreciation Life = 1 Year	\$25,000	-		
Depreciation Life = 39.5 Years	<u>-</u>	\$63		
Tax Savings: (Assume 35% Tax Bracket) For Federal and State Income Taxes Tax Savings In First Year	\$8,750	\$22		
Net Cost to Buyer After Tax Benefit After 1 Year	\$16,250	\$24,978		

\$50,000 Comparison of Singl	le Use, Remo	vable Building
	Pro•Tec Building	Wood Structure
Initial Cost of Building	\$50,000	\$50,000
Depreciation:		
7 Year Life	\$7,143	
39.5 Year Life	-	\$1,266
Total Depreciation After 7 Years	\$50,000	\$8,855
Tax Savings: (Assume 35% Tax Bracket) For Federal and State Income Taxes First 7 Years	\$17,500	\$3,099

Net Cost to Buyer After Tax Benefit After 7 Year \$46,901 \$32,500

End Walls • Fabric or Steel Options



















Attaching Fabric End Walls 2 Ways

The first option utilizes grommets and a lacing technique to attach and tighten fabric to the end tube. The second way adds additional fabric to the panel which then goes up and over the last end tube and tightens with ratchets. Please consult your local dealer for the best option for your building structure.





Livestock Environments • Single Tube & Sentry Options

Livestock will thrive with the natural lighting and excellent ventilation provided by Pro•Tec buildings.

- Natural Setting
- Excellent Air Ventilation
- Lower Production Costs
- Improved Performance
- Comfort All Year Round

Pro•Tec buildings offer adequate space for comfort, socialization and environmental management of your herd. Tightly woven polyethylene fabric covers with ridgevents provide natural lighting and proper airflow while giving cattle shade on hot summer days, decreasing the chance of heat stress.

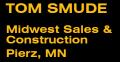
Easily incorporate Sioux livestock gates and panels for a complete handling system.







"The high roof of the building allows the system to rise up and out from the cattle so they don't breath in all the moisture. And no poles down the center for free stall barns."









Extending Current Buildings

Pro•Tec Buildings have the ability to grow as your operation grows. Extending the length of a building is easily done by removing any existing end panels, adding additional rafters, attaching a new fabric cover and incorporating the end panel again in its new location.

This can be accomplished with any of our building models.



Building Benefits

- Saves you money by protecting your investments.
- Engineered for stability & strength.
- · Offers superior ventilation.
- · Unmatched natural lighting.
- · Customized options available.
- Certifiable and insurable.
- Easy to expand the length when needed.
- Provide outstanding height, width and sidewall clearance for optimum capacity and accessibility.
- Use tough, tightly woven
 polyethylene fabric cover that
 stands tough against the
 elements and resists tearing
 and leakage.
- Numerous dealers throughout the U.S. and Internationally.
- Backed by a warranty as specified in the building owner's manual.













Warranties

Pro • Tec buildings are easily insurable due to the high-quality engineering and construction put into each and every one.

Our registered professionals design these buildings with you in mind, allowing for optimum function and ease of use.

FRAMES:

- Single Tube: 3 Year Warranty
- Sentry Series: 7 or 15 Year
 Prorated Warranty*

*Duration of warranty dependent on building environment (Livestock, Machine Storage, etc) & use of powdercoating or hot-dip for finish on frame.

COVER:

Cover materials are covered for a 15 year, prorated warranty.

ACCESSORIES:

3 year prorated warranties on fabricated tarp materials for end panels, roll up sides, curtains, doors, track doors, quarter panels and half moon end panels.

To qualify for warranty, the building must be erected per the Owner's Manual.

Testimonials



"We love our Pro•Tec feed building! It keeps the feed and equipment dry...We wish we would have put it up 10 years earlier!"

SALLY SUP

Sups Feed Service Albion, NE



"We can get some howling winds and gusts in this location. Our building handles high winds, rain, hail, with no problem. There's no need for daytime lights. It's warmer inside than a steel building and it doesn't have the condensation

issue of a steel structure. We're really pleased with it."

JACKIE SEVIER

Middle Loup Livestock Nutrition Seneca, NE

"The building goes up fast, is structurally superior and designed to last a long time. We are very pleased with it and the service the company has provided is the best."

MARK FLICKER

Pierz, MN



Widths: 40' Up To 180'

Spacing: 10', 12' or 16'

The Sentry building series

Wind Loads

is classified as partially enclosed and is engineered for wind speeds up to 90 mph. Custom options available for higher wind speeds. This enclosure classification requires the use of .55 and -.55 internal pressure coefficients for positive and negative internal pressure. These are the highest coefficients that are required for any enclosure classification. It allows for a building to have three closed walls and one open wall. Pressure relief panels are not needed to lower the enclosure classification.

Snow Loads

Both balanced and unbalanced snow is applied to the model as service load cases. The standard building series is designed to 30 psf, 40 psf and 50 psf ground snow. The trusses are spaced closer together as the snow load increases. 16ft, 12ft and 10ft respectively.

Professionally Engineered Engineered to 30-40-50 psf of ground snow and 90 mph basic wind speed!

Versatile Applications







Testimonial

"Ingram Feed & Seed recently erected a 40' x 60' Pro•Tec Sentry series building. We were able to assemble the frame and pull the cover ourselves which reduced our cost.

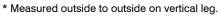
The Sentry series building was equipped with pallet racking to store protein & mineral tubs plus seed cleaning and treating equipment in the off season. We also keep two trucks under cover now. In a business where you gotta have it if your gonna sell it, the Pro•Tec Sentry series building helps Ingram Feed & Seed serve our customers' needs on a daily basis."

KENT INGRAM • Ingram Feed & Seed in Franklin, NE



Specifications

Building Width*	Rafter Spacing Options**	Rafter Chord Size	Rafter Branch Size	Rafter Depth
40'	16', 12', 10'	2.5"	1.5"	1'8"
50'	16', 12', 10'	2.5"	1.5"	1'8"
60'	16', 12', 10'	3"	1.5"	2'3"
70'	16', 12', 10'	3"	1.5"	2'3"
80'	16', 12', 10'	3"	1.5"	2'9"
90'	16', 12', 10'	3.5"	1.5"	2'9"
100'	16', 12', 10'	3.5"	1.5"	3'4"
110'	16', 12', 10'	4"	2"	3'4"
130'	16', 12', 10'	4"	2"	3'10"
150'	16', 12', 10'	4.5"	2.5"	4'4"
180'	16', 12', 10'	4.5"	2.5"	5'4"

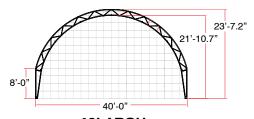


^{**} Snow loads on rafter spacing is: 16'-30 psf; 12'-40 psf; 10'-50 psf

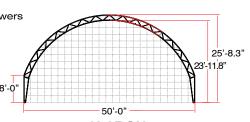




SENTRY SERIES



40' ARCHRequires 2 End Wall Towers



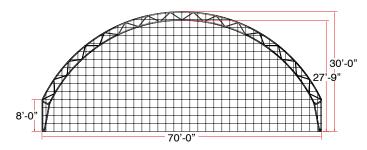
50' ARCH Requires 2 End Wall Towers



28'-0.1" 8'-0" 60'-0"

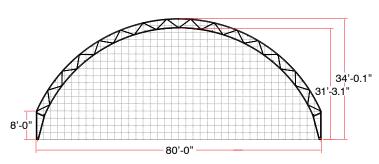
Requires 4 End Wall Towers



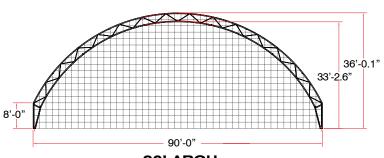


70' ARCH Requires 4 End Wall Towers





80' ARCH Requires 4 End Wall Towers



90' ARCH Requires 4 End Wall Towers

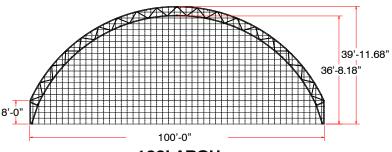




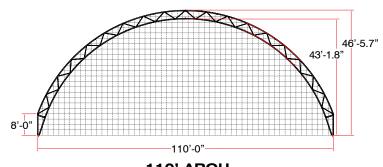




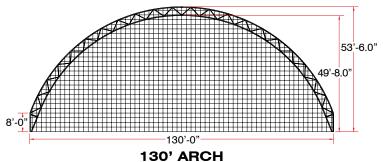




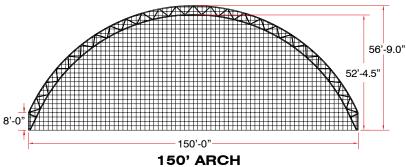
100' ARCH Requires 4 End Wall Towers



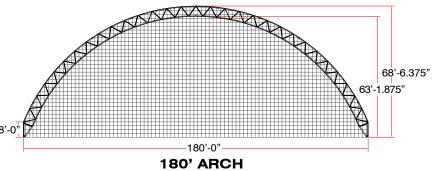
110' ARCH Requires 6 End Wall Towers



Requires 6 End Wall Towers



Requires 6 End Wall Towers



Requires 8 End Wall Towers

Grain Storage

Safety is our #1 Priority:
 We follow the 2009 International Building Code when designing all of our buildings.

Wind loads are calculated based on a partially enclosed building classification. Partially enclosed classification uses the highest wind forces of any building classification. This allows you to detail building wall and door layouts as needed, without worry of the building being under-designed.

These buildings are designed as partially enclosed because it is the recommended interpretation of the building code for fabric buildings. A "crossbraced" design method has been incorporated for this building series. This method does not rely on the cover for bracing of the top chord. It also ensures that the building maintains it's required strength regardless of a tear in the cover due to blowing debris.

No reduction in snow loads that are not allowed by the code are taken.



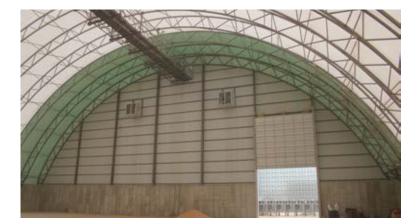




General: ASCE 7-05 specifications are used for the design of all of the Sentry Series buildings. Dead, wind and snow loads are calculated and applied to the structure. STAAD.PRO V8i structural software is used to analyze the truss system. An entire building is modeled, not an individual arch. That ensures that force transfer between trusses, cables, and lateral bracing (purlins), are incorporated together. LRFD design of the building is used in accordance with AISC 360-10. Excel design spreadsheets are used in the remainder of the design for bolted and welded connections, cables, truss member design, base plates, and tension pipes.







Grain Storage

Innovative Design Ideas:

Sentry Series building highlights include:

- Using all high strength steel
- "Cross-braced" frames
- Rolled chords
- Universal wall attachments
- Conveyor capabilities
- Simplified construction

And many more features that make the "Sentry Series" a state of the art investment for any application.

Please contact your local
Pro•Tec Dealer for a
customized quote on a
Sentry Style building.



Scan This
Code With Your
Smartphone
To See More
Examples.

Testimonial - Mitch Williams, President/CEO of Ag Partners Coop in Hiawatha, KS

"In today's environment, we wanted to add storage that would give us maximum flexibility. Our hope is that every year we are able to fill this building with grain. The reality is that we have experienced times that grain was short and our need for storage was not as great. With this building, we believe that it gives us flexibility to use it for other purposes, such as seed storage, equipment storage, and even possibly fertilizer storage. Getting the most out of our dollar was critical and I believe we accomplished this with the Pro•Tec Building."



Building Options

Ridge Vents

Ridge vents allow for more air flow and a much wider air pattern. This maximizes heat distribution and humidity control.





Awnings

Protection from the elements. Our durable awnings shelter feeders and bar direct sunlight from your livestock.





Track Doors

Track doors are a perfect solution to aesthetics & function, offering an external appearance & large entrance clearance.





Roll Up Doors

Adjustable roll up doors move up and down to regulate air intake and exhaust. A barrier from the sun, reducing indoor heat.





Sides

Curtains can be drawn to help circulate air flow or kept up to block direct sunlight.







Cover Colors

CLEAR	WHITE	BLACK	BEIGE	BROWN	DARK BLUE
STANDARD BLUE	STANDARD GREEN	STANDARD RED	BRIGHT RED	SILVER	

Covers are not used as a structural part of the building. They do not absorb heat, so the temperature inside the building is cooler in the summer and warmer in the winter. Covers are UV stabilized & feature a weight of 12 oz. per square yard, a coating of 4 mil on each side and a thickness of 20 mil.







Colors may vary from above samples.

Cattle Shades

Whether in open feedlots or pastures, Pro•Tec Safeguard Livestock Shades provide relief for your livestock from the hot sun and extreme heat. Utilize multiple units throughout your feedlots or pastures for enhanced coverage area.

- Standard height is 10'. 15' Shelters are also available.
- Single center post allowing for easy access all around the shelter.
- 1 year warranty.
- Shade panel blocks 80% of natural light.
- · Ability to roll up and secure shade directly to the shelter frame.
- Shelter post is made of heavy duty 7 gauge. Welded frame withstands abuse from livestock.



24' X 16' Shade Area • 2" X 2" x 16 Gauge Frame





















For more information and your nearest dealer, contact:

Sioux Steel Company P.O. Box 1265 Sioux Falls, SD 57101-1265

1-800-557-4689 1-605-336-1750 www.siouxsteel.com

Compared to Wood or Steel Structures, Pro•Tec Buildings Offer:

- Easy Relocation
- Natural Lighting
- Simplified Installation
- Lower Project Costs
- Minimal Maintenance
- **Foundation Choices**



SHOP ONLINE!

Search local dealerships or buy direct online. MSRP product pricing featured along with Pro•Tec Building packages & additional product information. www.agpartsdirect.com



SINCE

Since 1918, Sioux Steel Company is now in its fourth generation as a family-owned company. Based in Sioux Falls, South Dakota, we know the agricultural industry and know that you need high-quality, dependable products. Our mission continues to be not only to satisfy our customers, but we want them to be *delighted* to do business with us.

Interested in working for Sioux Steel Company? Scan this QR Code with your smartphone to e-mail us for our current employment opportunities.



