

Sprung Instant Structures Inc.

14579 HAWTHORNE AVENUE, FONTANA, CALIFORNIA 92335

May 20, 1993



Stephanie Stoddard
New Mexico Enviro-Dept
525 Camino De Los Marquez Ste. 4
Santa Fe, NM 87503

Dear Ms. Stoddard,

Your solution to create immediate enclosed space may be Sprung Instant Structures. Available from inventory and designed for quick installation, our structures offer you cost-effective shelter with speed, strength, and convenience.

Sprung Instant Structures provide complete protection from extreme wind and weather. We give you temporary or permanent enclosed space in less time and with less labor than conventional methods. Sprung structures combine clear-span aluminum beams with tensioned fabric panels; these components form a strong, lightweight structure which assembles quickly and may be efficiently relocated for maximum portability.

As referenced in the attached brochure, Sprung structures are utilized in many industries throughout the world. Our shelter systems are ideal for short-term or long-term applications. They may be leased or purchased and may require neither site preparation nor foundations.

Sprung Instant Structures create enclosed space within days of order. Please contact us to submit a proposal based on your shelter requirements.

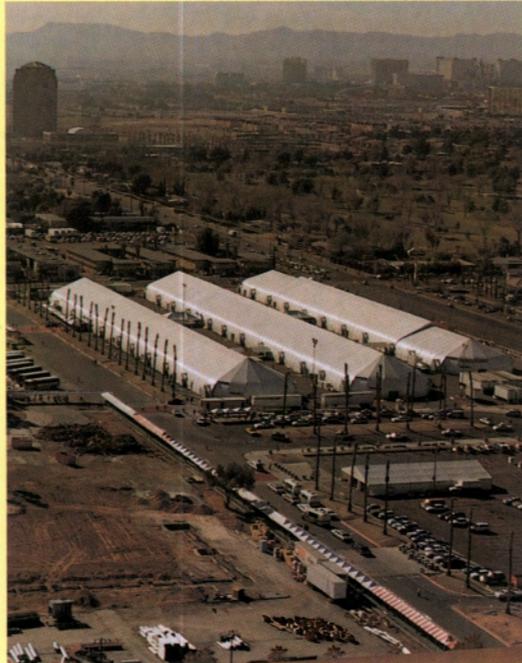
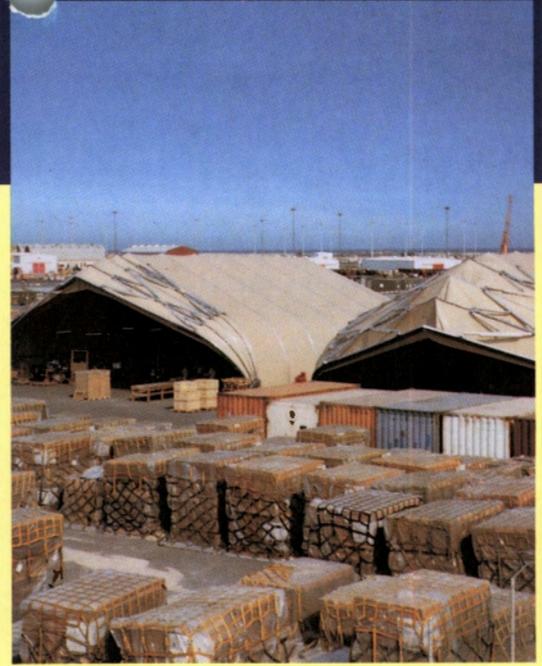
Best Regards,
SPRUNG INSTANT STRUCTURES, INC.

Brian P. Hugie

Brian Hugie
Assistant Sales Manager

BH/pc





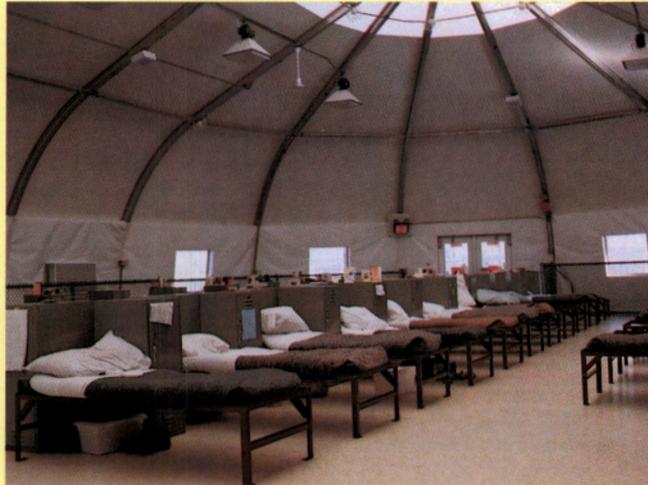
The Complete Shelter System

by

SPRUNG
Instant Structures

The Sprung Challenge: We challenge anyone to match our record for shipping, installing and servicing superior-quality portable structures anywhere in the world within days.

The Sprung Structure is designed and engineered to accommodate the world's need for enclosed space quickly and economically. As a member of the Sprung Group of Companies, in business since 1887, Sprung Instant Structures has achieved international recognition by providing shelter for hundreds of different applications in over fifty countries throughout the world.



Available Immediately

No matter what the need, Sprung Instant Structures is unlike any other company in the instant structure industry in its ability to deliver superior quality, portable structures economically and directly from inventory. The company's reputation has been built on timely delivery of modular free span structures, especially in areas where transportation is difficult and speed of installation essential.

With over one million square feet of structures in inventory, Sprung Instant Structures can react

immediately to any shelter need. Immediate installation supervision is provided. Approximately 2,000 square feet can be erected per day with a crew of six unskilled laborers. If necessary Sprung Instant Structures can meet the challenge of even faster installation, having provided over 200,000 square feet of shelter in a single week.

Portable and Expandable to Any Size

Sprung Structures have a unique design which makes them structurally sound yet light in weight, allowing for easy relocation, in some cases even without dismantling.

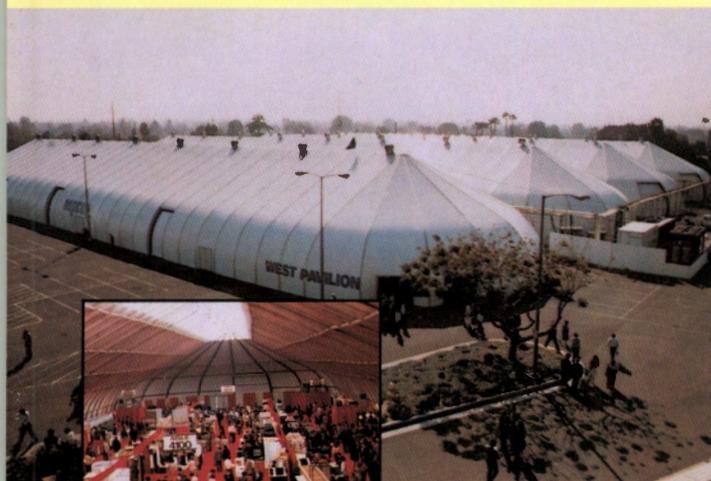
Not only are Sprung Structures 100% relocatable, they can be built to any length and expanded or contracted to adapt to changing needs. This flexibility is made possible because of their patented modular free span design.

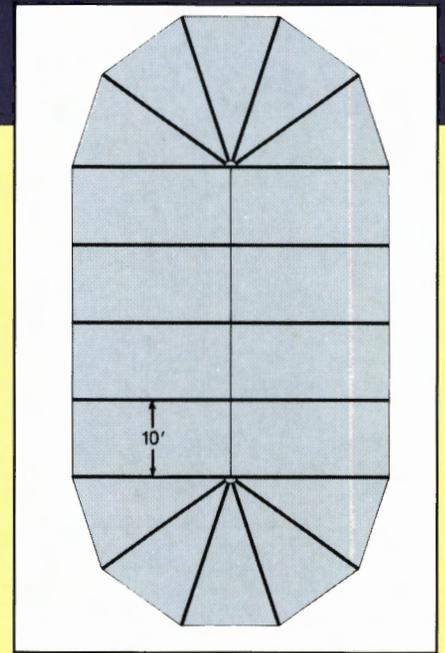
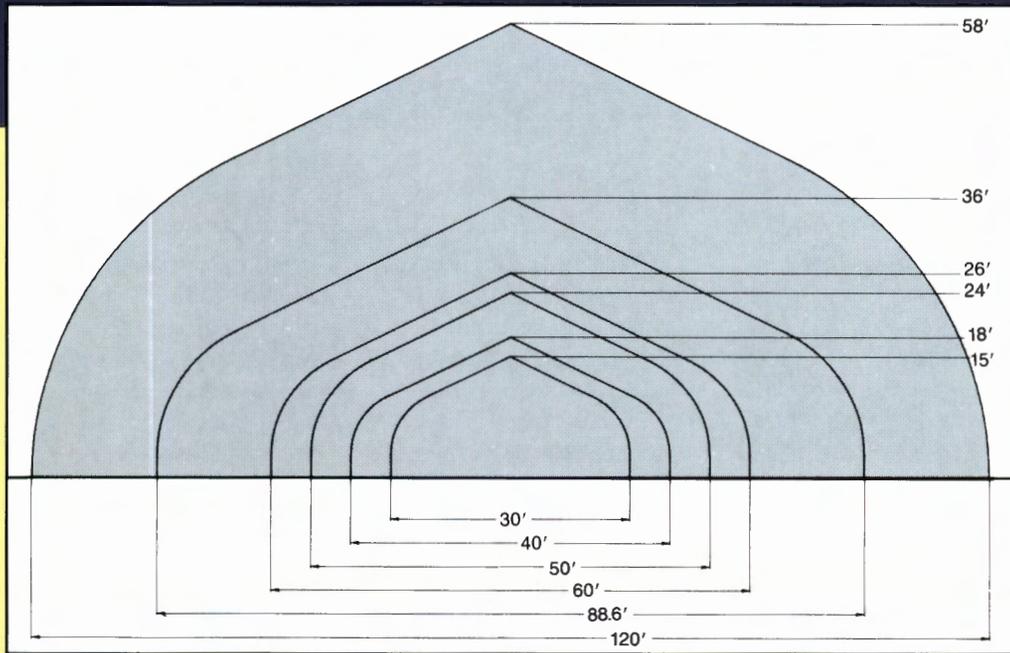


Short and Long Term Leasing

Sprung Instant Structures can tailor a financial plan to meet customers' needs. Whether a shelter is required for as little as a few

days or for several years, Sprung Instant Structures offers a number of leasing alternatives, all with options to purchase.





Membrane

The membrane is a durable PVC. coated polyester scrim treated with inhibitors to prevent degeneration from ultraviolet rays of the sun. It is fire retardant (i.e self extinguishing), and passes the California State Fire Marshall, NFPA 701 and ULCS 109.

Normal life expectancy is 10-12 years and Sprung will provide a five year pro rata guarantee in any climate.

Translucent, opaque and Tedlar® coated membranes are available in a variety of colors.

Sprung Structure

- Can be designed to meet windloads of up to 130 mph.
- Can be erected in areas of heavy snow.
- Can be erected with unskilled laborers at a rate of 2,000 square feet per day or greater.
- Requires little or no maintenance.
- Can be erected on any reasonably firm flat ground. Foundations are not required for structures up to 60' in width — small footings required on wider structures.
- Can be constructed on a grade slope of up to 6%.
- Can be completely environmentally controlled.
- Membrane and components can be repaired or replaced in a minimum time frame without affecting the stability of the structure.

 *Sprung Instant Structures Inc.®*

OFFICES IN:

San Francisco, Ca.
Houston, Tx.

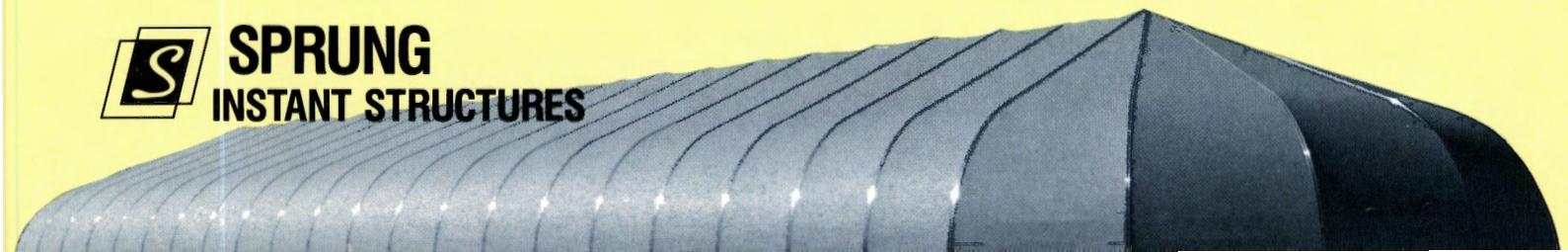
Allentown, Pa.
Atlanta, Ga.

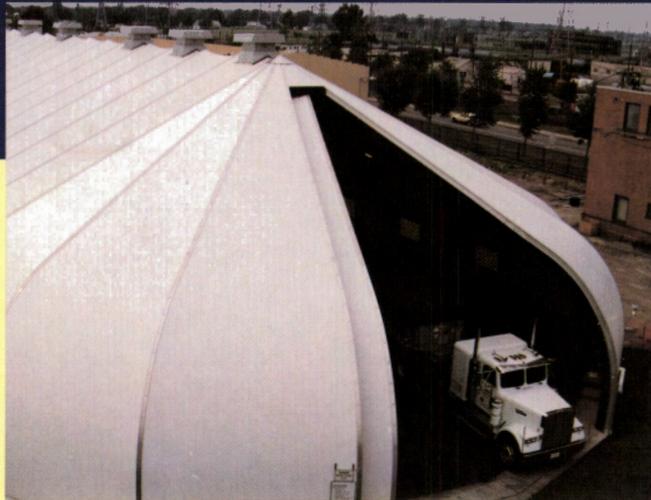
TOLL FREE
1-800-528-9899
CANADA
1-800-661-1163



PATENTED WORLDWIDE

 **SPRUNG
INSTANT STRUCTURES**





Accessories

Every Sprung Structure is specially designed to accommodate doors of any size, providing ready access for vehicles, aircraft, freight or personnel. The modular design makes it possible to change door locations or add additional doors easily, at any time.

Window, fans and ventilators, all available from inventory, can be located anywhere within the structure.

Environmental control of the structure is also possible as structures have been designed and operated in the freezing temperatures of the Arctic as well as in the extreme heat of the Middle East.

Quality and Service

Sprung Instant Structures has always been at the forefront of technology and delivers a level of quality and service that is unmatched in the instant structure industry. Sprung Instant Structures are able to carefully specify the highest quality membrane available for any given installation.

Supporting this quality membrane are aluminum components which have been designed and manufactured to meet the most demanding structural integrity of any structure in its class that will last indefinitely.

Sprung Instant Structures' personnel, who supervise the installation of all Sprung Structures, insure that they are erected professionally.

This dedication to quality and service has made the Sprung Structure the most desired and aesthetic structure in the temporary shelter market. And it's the reason why Sprung Instant Structures offers a superior guarantee and warranty program.

Applications

The applications for Sprung Structures are as numerous as the needs for enclosed shelter. They can be erected quickly and economically on a temporary or permanent basis. Sprung has served the needs of a long list of market

sectors by producing structures for such diverse uses as grain storage, hangers, concrete hoarding, hazardous waste clean-up, warehousing, inmate housing, and exhibition areas.

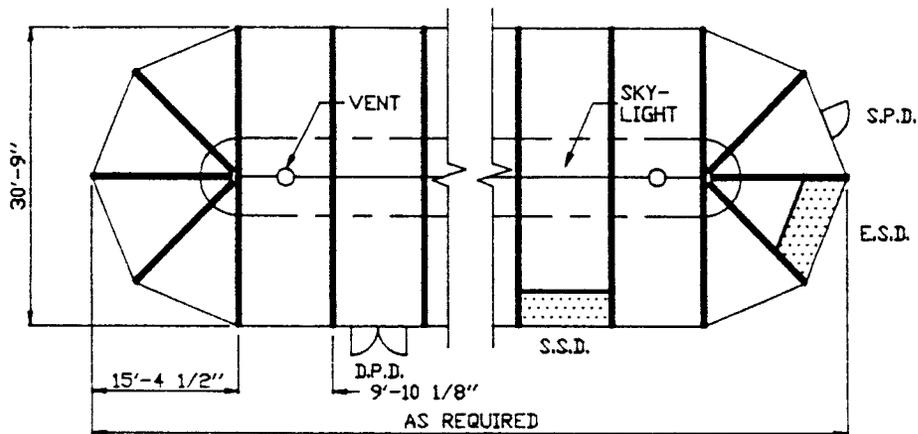


Custom Structures

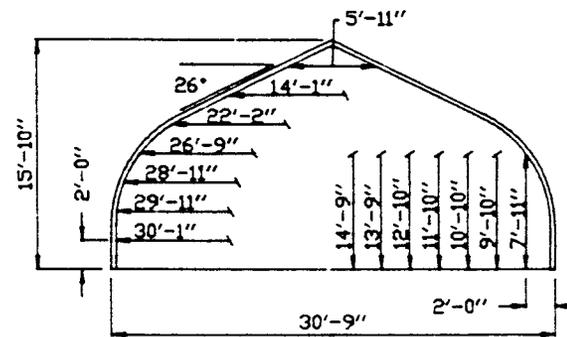
A unique in-house engineering department makes Sprung Instant

Structures unmatched in the industry in the design and manufacture of instant structures for special applications. Sprung Structures can be designed to meet any requirement by utilizing standard components. Sprung Structures can be made any width, length, curved or straight, and can be put on wheels or tracks.

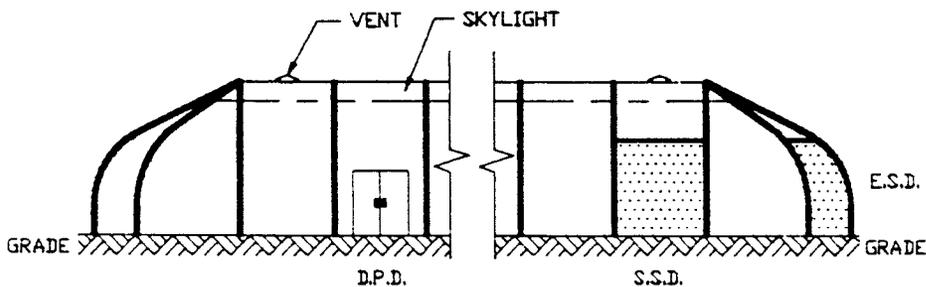




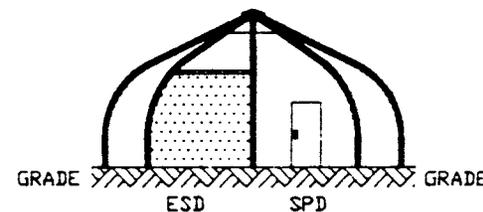
PLAN



SECTION
SCALE: 1"=15'-0"



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE.

- E.S.D. - END SLIDING DOOR
- S.S.D. - SIDE SLIDING DOOR
- D.P.D. - DOUBLE PERSONNEL DOOR
- S.P.D. - SINGLE PERSONNEL DOOR

HEIGHT	BASE WIDTH	TOP WIDTH
10'-0"	11'-5"	8'-6"
10'-0"	9'-6"	9'-6"
6'-8"	6'-0"	6'-0"
6'-8"	3'-0"	3'-0"



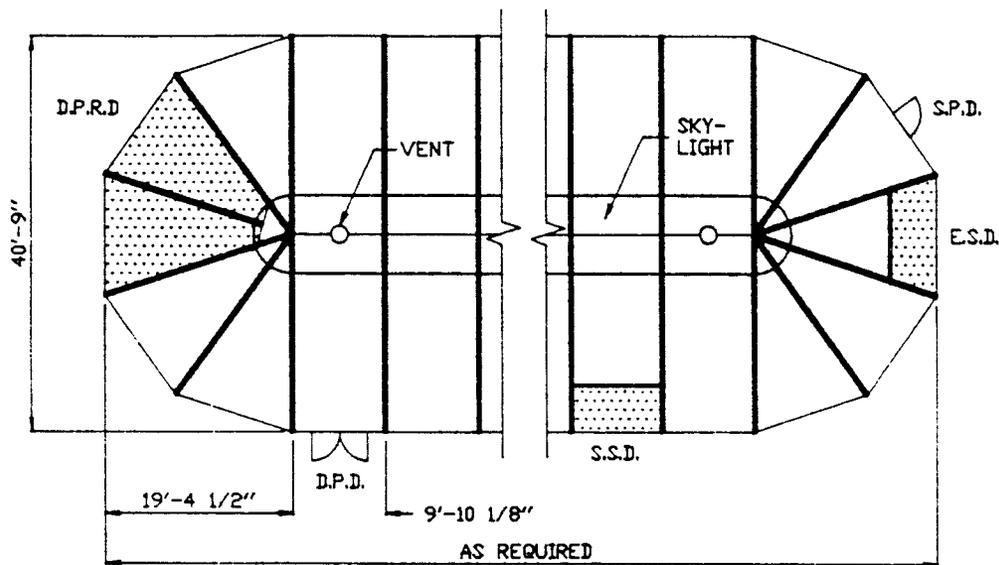
SPRUNG INSTANT STRUCTURES

30'-9" STRUCTURE

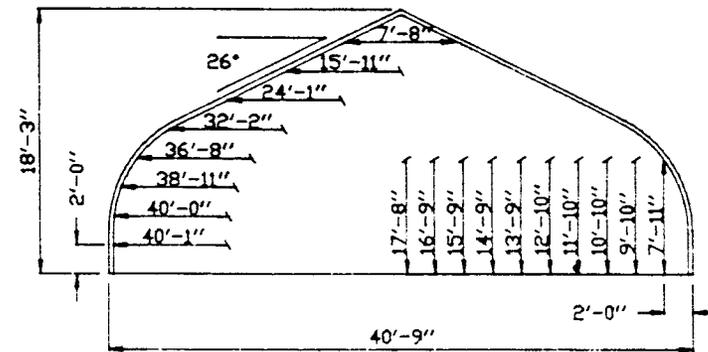
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MARCH 30, 1990

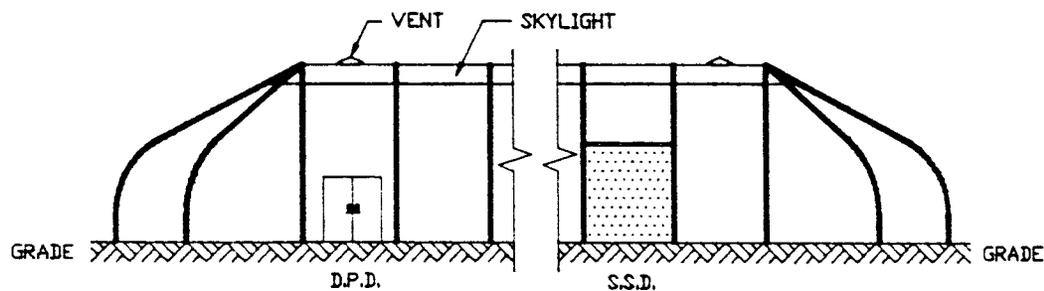
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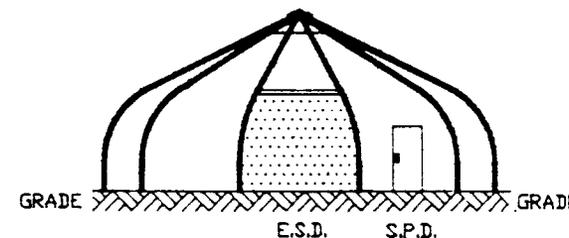
PLAN



SECTION
SCALE: 1"=15'-0"



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE.

- E.S.D. - END SLIDING DOOR
- S.S.D. - SIDE SLIDING DOOR
- D.P.R.D. - DOUBLE PANEL ROLLING DOOR
- D.P.D. - DOUBLE PERSONNEL DOOR
- S.P.D. - SINGLE PERSONNEL DOOR

HEIGHT	BASE WIDTH	TOP WIDTH
10'-0"	12'-0"	9'-6"
14'-0"	9'-6"	9'-6"
16'-0"	23'-2"	4'-1"
6'-8"	6'-0"	6'-0"
6'-8"	3'-0"	3'-0"



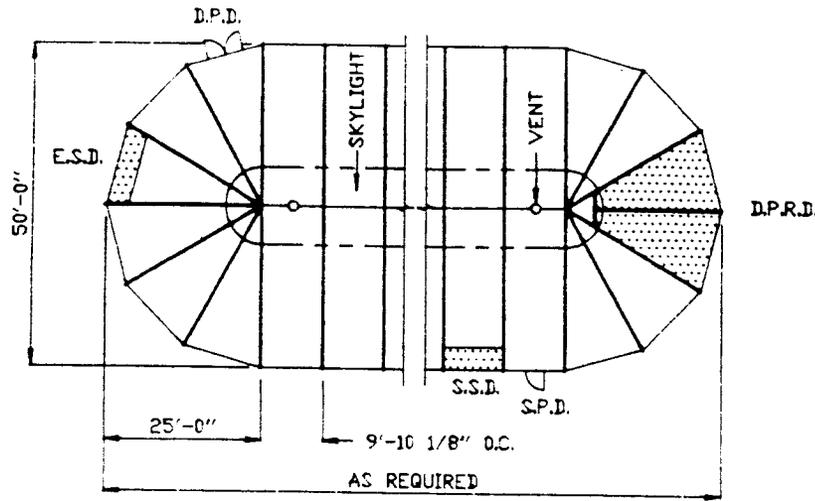
SPRUNG INSTANT STRUCTURES

40'-9" STRUCTURE

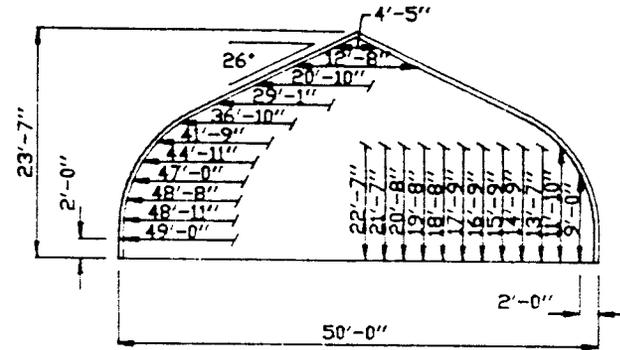
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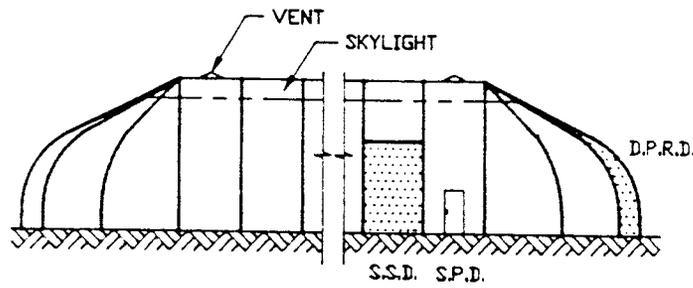
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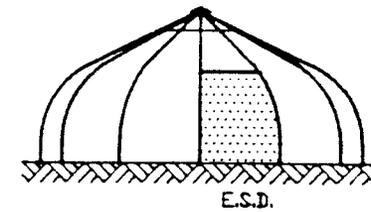
PLAN



SECTION
SCALE: 1"=20'



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE.

	HEIGHT	BASE WIDTH	TOP WIDTH
E.S.D. - END SLIDING DOOR	14'-0"	12'-3"	9'-2"
S.S.D. - SIDE SLIDING DOOR	14'-0"	9'-6"	9'-6"
D.P.R.D. - DOUBLE PANEL ROLLING DOOR	20'-0"	24'-0"	6'-0"
D.P.D. - DOUBLE PERSONNEL DOOR	6'-8"	6'-0"	6'-0"
S.P.D. - SINGLE PERSONNEL DOOR	6'-8"	3'-0"	3'-0"



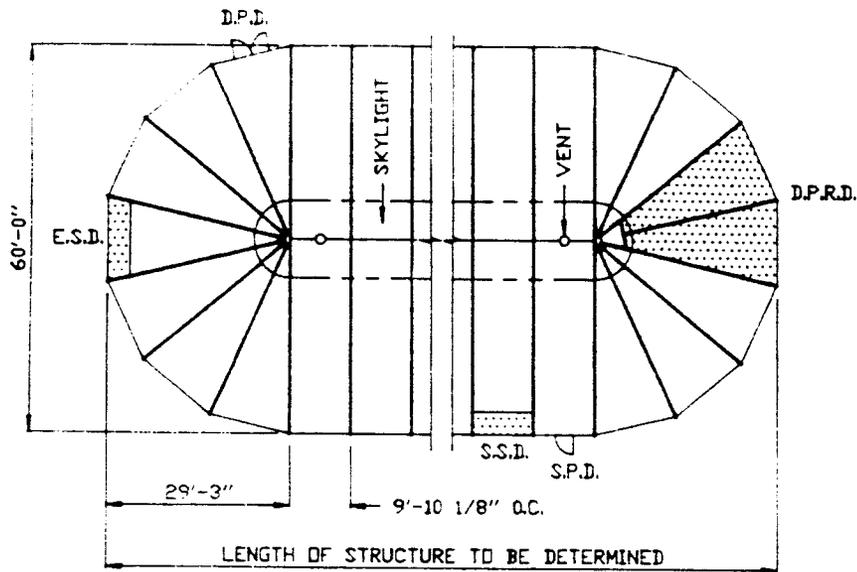
SPRUNG INSTANT STRUCTURES

50'-0" STRUCTURE

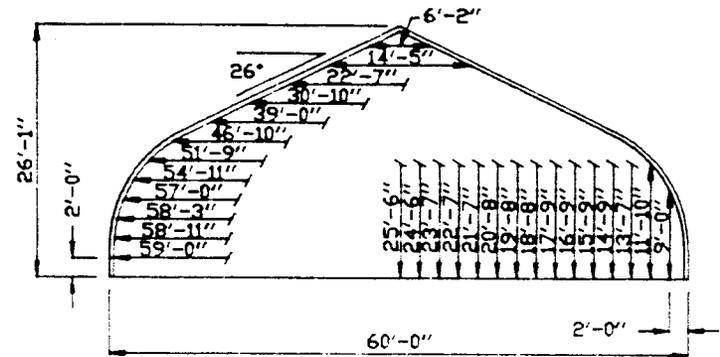
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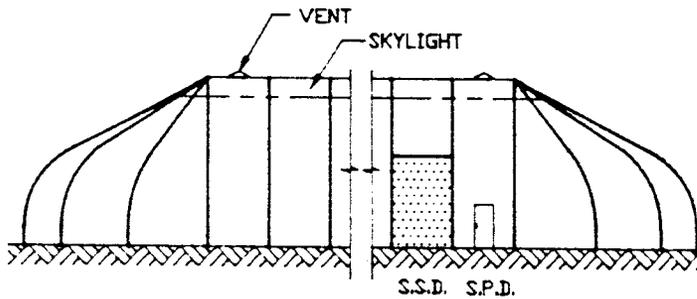
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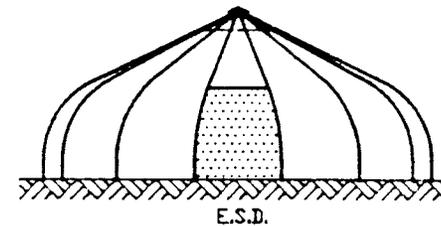
PLAN



SECTION
SCALE: 1"=20'



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE.

	HEIGHT	BASE WIDTH	TOP WIDTH
E.S.D. - END SLIDING DOOR	14'-0"	12'-8"	10'-0"
S.S.D. - SIDE SLIDING DOOR	14'-0"	9'-6"	9'-6"
D.P.R.D. - DOUBLE PANEL ROLLING DOOR	22'-0"	25'-0"	6'-0"
D.P.D. - DOUBLE PERSONNEL DOOR	6'-8"	6'-0"	6'-0"
S.P.D. - SINGLE PERSONNEL DOOR	6'-8"	3'-0"	3'-0"



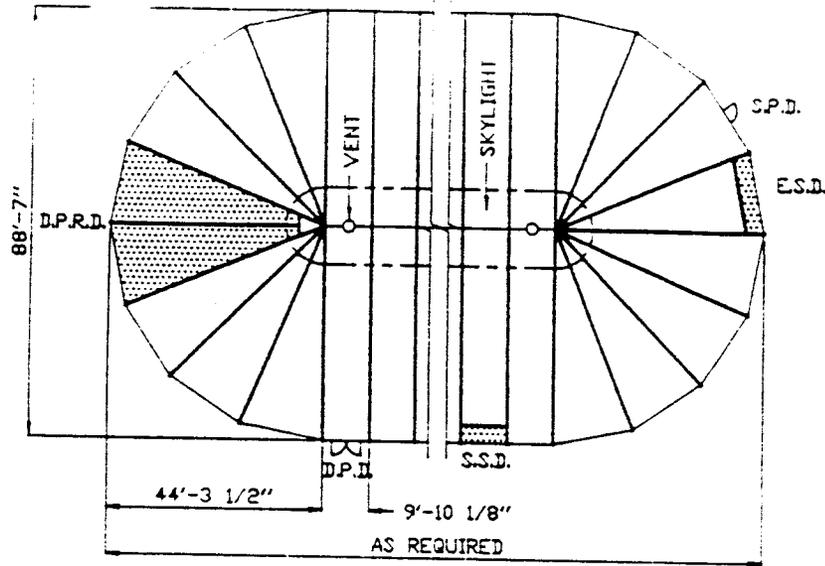
SPRUNG INSTANT STRUCTURES

60'-0" STRUCTURE

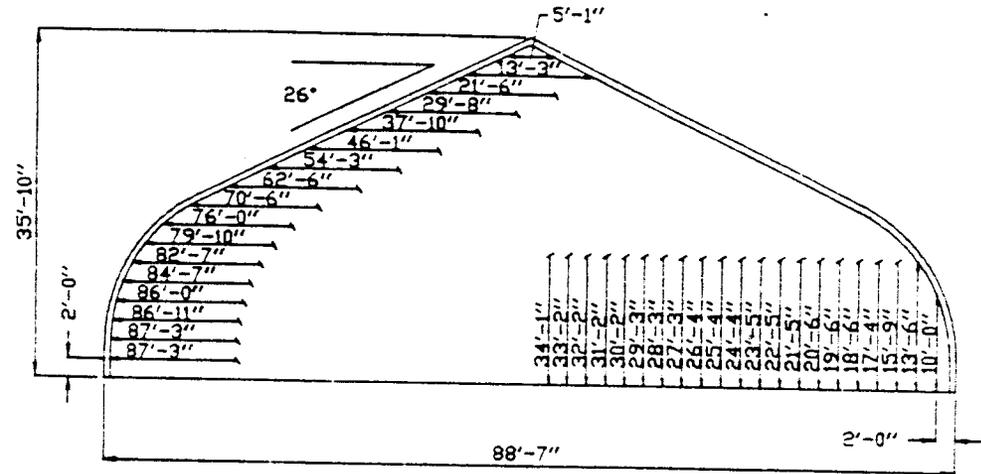
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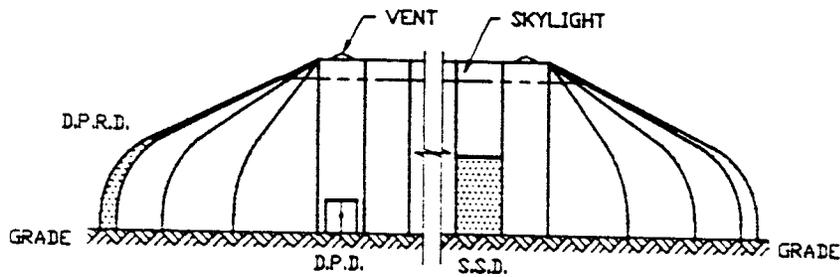
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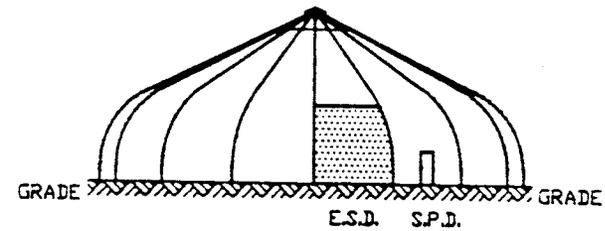
PLAN



SECTION
SCALE: 1"=20'-0"



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE.

- E.S.D. - END SLIDING DOOR
- S.S.D. - SIDE SLIDING DOOR
- D.P.R.D. - DOUBLE PANEL ROLLING DOOR
- D.P.D. - DOUBLE PERSONNEL DOOR
- S.P.D. - SINGLE PERSONNEL DOOR

HEIGHT	BASE WIDTH	TOP WIDTH
16'-0"	16'-10"	14'-3"
14'-0"	9'-6"	9'-6"
32'-0"	33'-0"	5'-0"
6'-8"	6'-0"	6'-0"
6'-8"	3'-0"	3'-0"



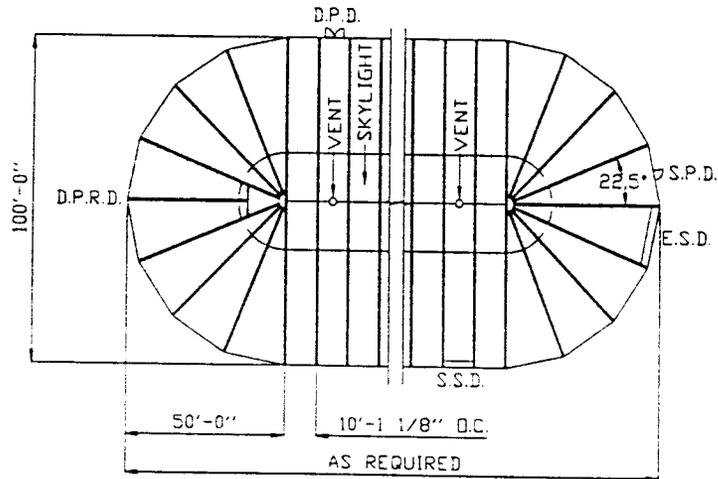
SPRUNG INSTANT STRUCTURES

88'-7" STRUCTURE

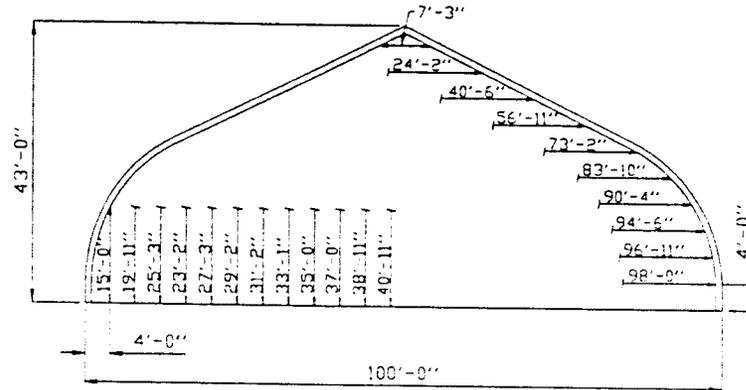
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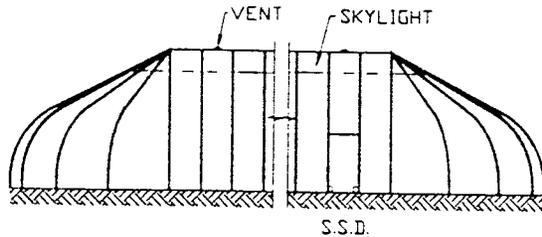
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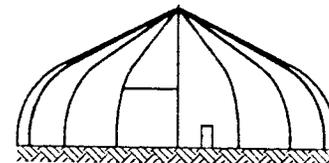
PLAN



SECTION THRU STRUCTURE
SCALE: 1"=30'-0"



ELEVATION



E.S.D. S.P.D.
END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE

	HEIGHT	BASE WIDTH	TOP WIDTH
S.P.D. - SINGLE PERSONNEL DOOR	6'-8"	3'-0"	3'-0"
D.P.D. - DOUBLE PERSONNEL DOOR	6'-8"	6'-0"	6'-0"
E.S.D. - END SLIDING DOOR	18'-0"	18'-5"	16'-3"
S.S.D. - SIDE SLIDING DOOR	18'-0"	9'-5"	9'-5"
D.P.R.D. - DOUBLE PANEL ROLLING DOOR	35'-0"	36'-9"	10'-0"



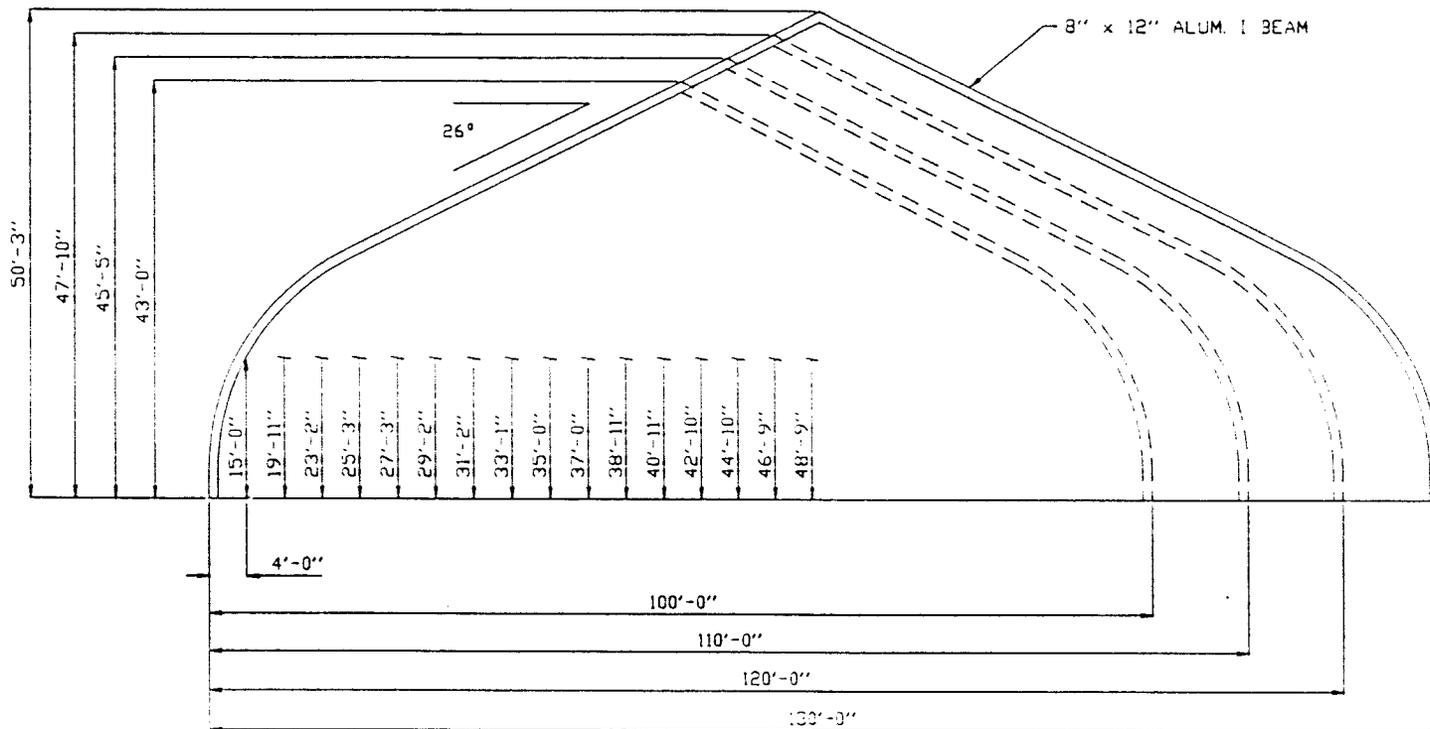
SPRUNG INSTANT STRUCTURES

100'-0" STRUCTURE

SCALE:
1"=60'-0"

DATE
APRIL 21, 1993

DRAWING #
S-100



SECTION



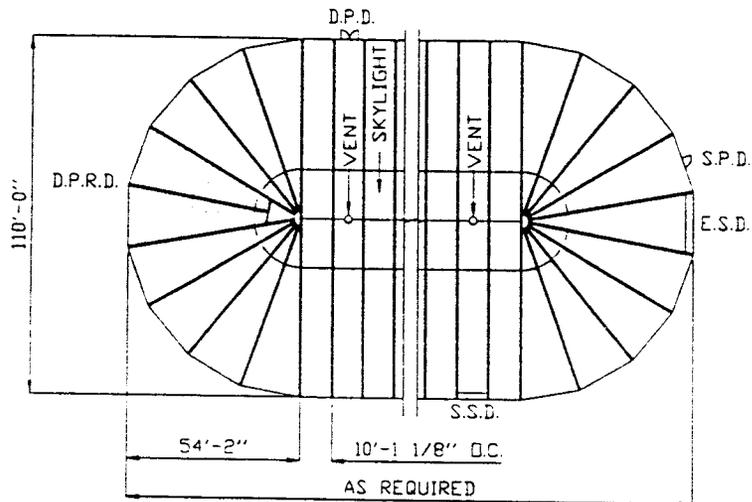
SPRUNG INSTANT STRUCTURES

100'-130' STRUCTURE
SECTION

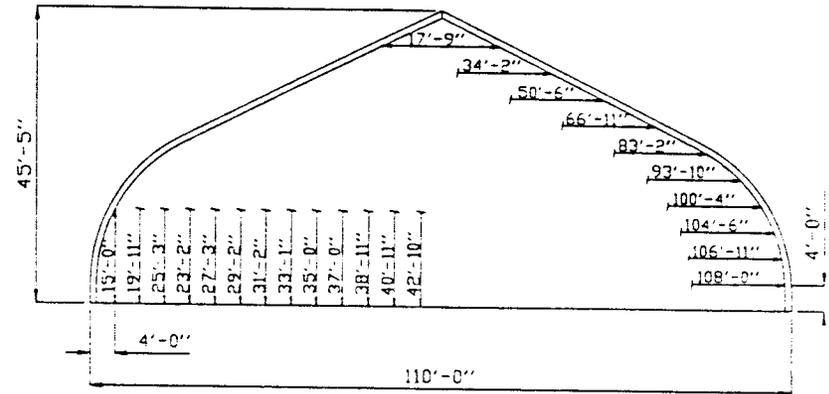
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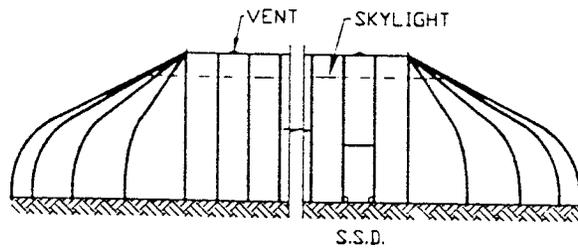
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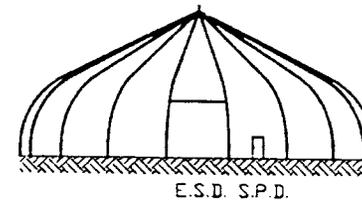
PLAN



SECTION THRU STRUCTURE
SCALE: 1"=30'-0"



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE	HEIGHT	BASE WIDTH	TOP WIDTH
S.P.D. - SINGLE PERSONNEL DOOR	6'-8"	3'-0"	3'-0"
D.P.D. - DOUBLE PERSONNEL DOOR	6'-8"	6'-0"	6'-0"
E.S.D. - END SLIDING DOOR	18'-0"	18'-0"	16'-3"
S.S.D. - SIDE SLIDING DOOR	18'-0"	9'-5"	9'-5"
D.P.R.D. - DOUBLE PANEL ROLLING DOOR	37'-0"	36'-3"	9'-8"



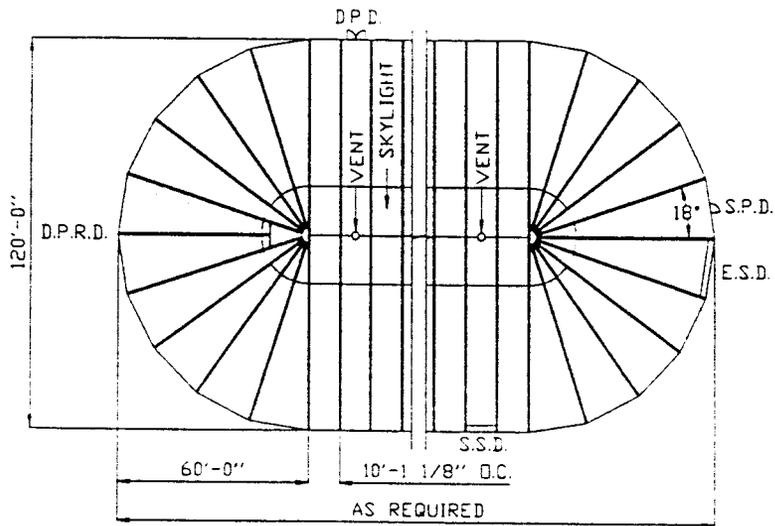
SPRUNG INSTANT STRUCTURES

110'-0" STRUCTURE

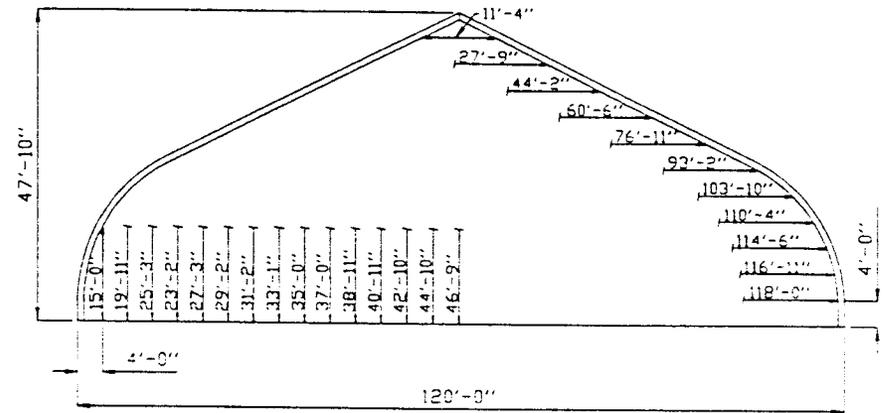
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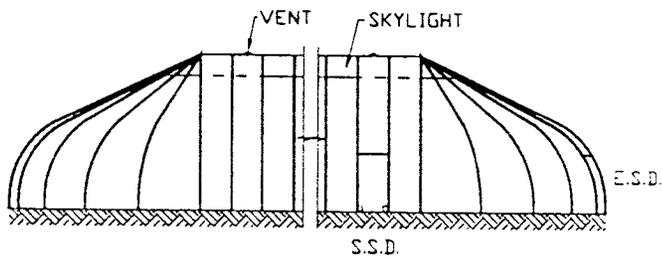
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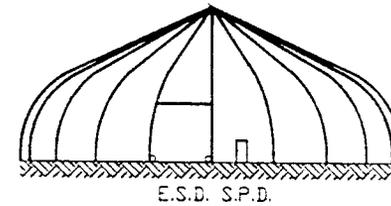
PLAN



SECTION THRU STRUCTURE
SCALE: 1"=30'-0"



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE	HEIGHT	BASE WIDTH	TOP WIDTH
S.P.D. - SINGLE PERSONNEL DOOR	6'-8"	3'-0"	3'-0"
D.P.D. - DOUBLE PERSONNEL DOOR	6'-8"	6'-0"	6'-0"
E.S.D. - END SLIDING DOOR	18'-0"	17'-9"	16'-0"
S.S.D. - SIDE SLIDING DOOR	18'-0"	9'-5"	9'-5"
D.P.R.D. - DOUBLE PANEL ROLLING DOOR	39'-0"	35'-10"	13'-0"



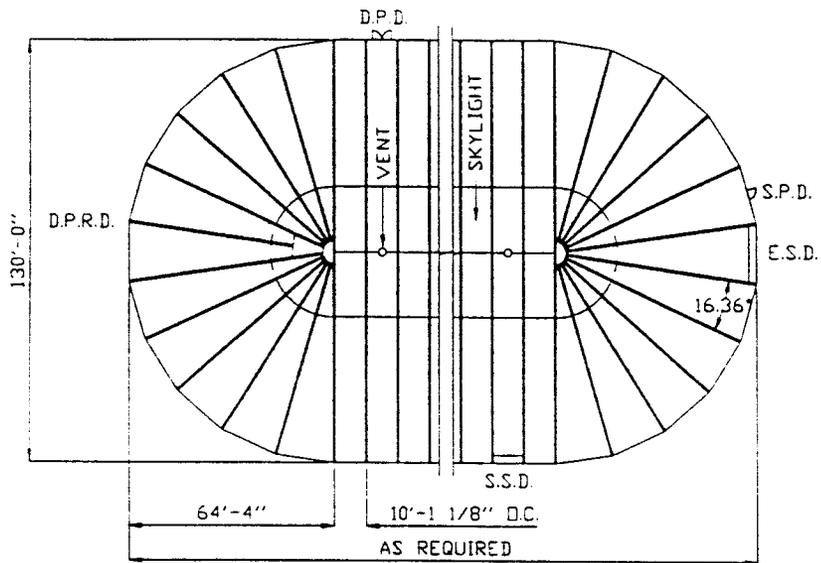
SPRUNG INSTANT STRUCTURES

120'-0" STRUCTURE

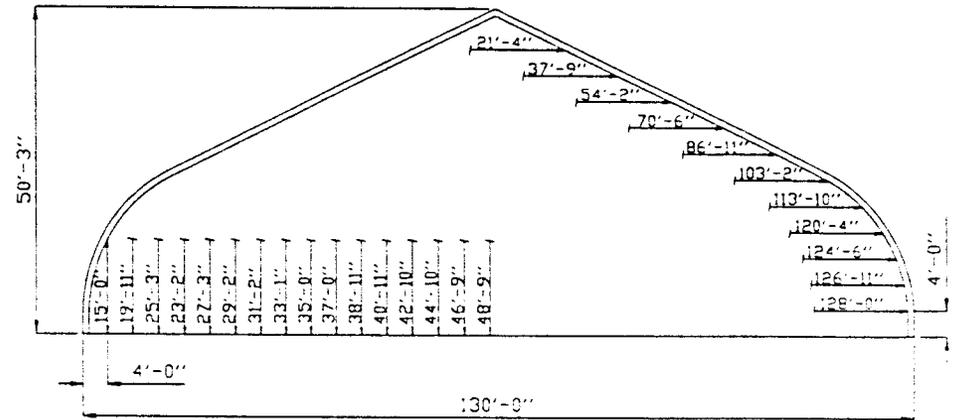
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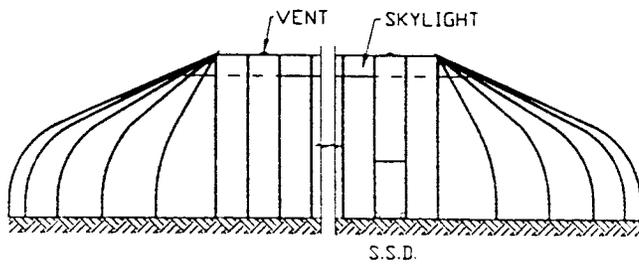
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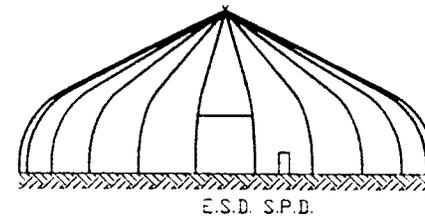
PLAN



SECTION THRU STRUCTURE
SCALE: 1"=30'-0"



ELEVATION



END ELEVATION

NOTES:

1. DOOR SIZES AVAILABLE	HEIGHT	BASE WIDTH	TOP WIDTH
S.P.D. - SINGLE PERSONNEL DOOR	6'-8"	3'-0"	3'-0"
D.P.D. - DOUBLE PERSONNEL DOOR	6'-8"	6'-0"	6'-0"
E.S.D. - END SLIDING DOOR	18'-0"	17'-6"	15'-9"
S.S.D. - SIDE SLIDING DOOR	18'-0"	9'-5"	9'-5"
D.P.R.D. - DOUBLE PANEL ROLLING DOOR	41'-0"	35'-4"	9'-0"



SPRUNG INSTANT STRUCTURES

130'-0" STRUCTURE

SCALE:
1"=60'-0"

DATE:
APRIL 21, 1993

DRAWING #
S-130

Sprung Instant Structures Ltd.

Guarantee

Fabrics used in every Sprung Instant Structure have been selected for their proven strength, durability and longevity. They are highly waterproof, mildew proof and insect resistant. Because the fabric used contains ultra-violet inhibitors, it withstands extreme climatic variations and is not easily degraded by the sun's rays. This fabric has been warranted flame-retardant status by the Underwriters' Laboratories of Canada and the California State Fire Marshal.

To show our sincere confidence in our product, Sprung Instant Structures Ltd. guarantees to replace, on a pro-rata basis and at the current price, any fabric which deteriorates from any of the aforementioned factors within five years of the delivery of the building.

This guarantee applies only to the original purchaser of a Sprung Instant Structure and will not be valid if this Company has not supervised all erections and dismantlings of the structure during the five-year guarantee period.


P. D. Sprung, President

BABOWAL BUILDERS & ENGINEERS LTD.

108, 208 - 57 AVENUE S.W., CALGARY, ALBERTA T2H 2K8 PHONE 252 2900

February 25, 1982

Sprung Instant Structures Ltd
1001 - 10th Avenue S.W.
Calgary, Alberta
T2R 0B7

Attention: Mr. P. D. Sprung
President

Dear Sir,

Re: Wind Velocities

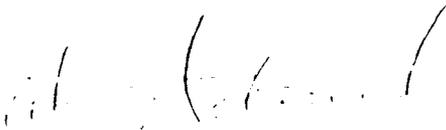
Based on:

- a) Pressure distribution as determined by the wind tunnel test at the University of Calgary;
- b) Wind velocity - pressure conversions as specified in the National Building Code of Canada;
- c) Yield point stresses of aluminum alloy 6351-T6;
- d) Combinations of dead and live load.

The Sprung Instant Structures can withstand the following maximum wind velocities:

Structure Size	Maximum Wind Velocity MPH
30'	137
40'	123
50'	130
60'	122
25m	141
27m	134

Yours truly,



W. Babowal, P. Eng.

BABOWAL BUILDERS & ENGINEERS LTD

WB/ds

BABOWAL BUILDERS & ENGINEERS LTD.

108, 208 - 57 AVENUE S.W., CALGARY, ALBERTA T2H 2K8 PHONE: 252 2999

August 4, 1983

Sprung Instant Structures Ltd.
1001 - 10th Avenue S.W.
Calgary, Alberta
T2R 0B7

Attention: Mr. Harry Lane

Dear Sir,

Re: Wind Pressures

The provision for wind design in the National Building Code of Canada is different from most codes and therefore causes difficulty in comprehension in other jurisdictions.

The pressures stipulated for design in the NBC are based on the standard formula $p = 0.0027 V^2$ where p is the pressure in pounds per sq. ft. and V is the wind velocity in miles per hour. The wind velocity used in design in the NBC is the average hourly wind. This pressure is then multiplied by a factor of 2 called a gust factor to allow for wind gusts. Thus if the design wind velocity is 75 m.p.h., the design pressure is 15 psf. With the gust factor of 2, this is equivalent to designing for a wind gust of 105-110 m.p.h.

The NBC also stipulates pressure coefficients that should be applied to the building for distribution of wind pressures. These coefficients are based on the shape of the building and because they must cover a variety of buildings, are generally conservative. They also do not take into account the special streamlined shape that makes up your building.

The wind tunnel tests conducted at the University of Calgary on the specific shape of your structure, indicates that the pressure coefficients are approximately half of those stipulated in the NBC.

Thus in the structures analyzed by this office, using the results of the tunnel tests, we have found the structures capable of withstanding winds in the order of 125-130 m.p.h.

Yours truly,



W. Babowal, P. Eng.

BABOWAL BUILDERS & ENGINEERS LTD.

WB/ds

BABOWAL BUILDERS & ENGINEERS LTD.

108, 208 - 57 AVENUE S.W., CALGARY, ALBERTA T2H 2K8 PHONE 252 2000

April 19, 1988

Sprung Instant Structures Ltd.
1001 - 10th Avenue S.W.
Calgary, Alberta
T2R 0B7

Dear Sir,

Re: Snow Loads on Sprung Structures

Considerable research has been done in Canada into snow loads on roofs. No research has been done on snow loads on Sprung Instant Structures because they are a proprietary structure and also a fairly recent development.

As part of the National Building Code of Canada, a supplement entitled "Design Data for Selected Locations in Canada", is published. This supplement lists ground snow loads for the selected locations.

The ground snow loads are based on a winter's accumulation of precipitation. This includes, snow, rain and ice.

Roof snow loads are usually a percentage of ground snow loads. For flat roofs and roofs with a slope of less than 30 degrees, the roof snow load is 80% of the ground snow load. In exposed conditions, where wind will blow the snow away, the load can be reduced to 60%. The code also makes provisions for accumulation of snow drifts and unbalanced snow loading.

For sloping roofs over 30 degrees, the code permits a reduction in the snow until at 70 degrees, there is zero snow loading. Again, this reduction is based on conventional type roof construction which has a certain amount of roughness and definite eave.

The Sprung Instant Structure is different from typical roof construction. The roof is constructed from a fabric membrane. The membrane is quite slippery. It is also flexible and can "flutter" to a limited extent in a breeze.

While the roof slope is 26 degrees (less than the 30 degrees permitting snow load reduction) the eaves are rounded and provide no obstruction to snow sliding.

Observations of structures in service has led to the conclusion that these structures do not accumulate snow but instead tend to shed snow. This is confirmed by pictures of Sprung Structures with clear roofs, piles of snow at the base with adjacent conventional roofs showing accumulation of snow.

Also Sprung Structures have been erected in high snow load areas (up to 110 psf ground snow). They have performed well under these circumstances even though they were designed for a fraction of the high snow load.

BABOWAL BUILDERS & ENGINEERS LTD.

203, 7515 ELIOT ROAD S.E., CALGARY, ALBERTA T2H 1G3 PHONE: 252 2099 FAX: 640 1118

December 11, 1991

Sprung Instant Structures Ltd.
1001 - 10th Avenue S.W.
Calgary, Alberta
T2R 0B7

Dear Sirs,

Re: Earthquake Loading

There have been no calculations done on your structures for earthquake loadings. The structures are inherently earthquake resistant as a quick examination will reveal.

1. MASS

The horizontal forces that structures must resist in an earthquake can be calculated from the classic physics formula - Force = mass x acceleration ($F = ma$). Since your structure lacks mass, the horizontal forces are minimal. We use 3 lbs. per square foot for calculation of the dead load effect. The shipping weight is in the order of 1 - 1 1/2 lbs per square foot, the excess being an allowance for lights, etc., that an owner may hang from the structure. These light loads do not create significant horizontal forces.

2. FLEXIBILITY

The structures that sustain greatest damage in an earthquake are rigid structures such as masonry buildings. The membrane is extremely flexible and offers no resistance to distortion. It will not suffer any damage in an earthquake.

The aluminum frames are flexible, ductile and moment resisting, qualities that are required in an earthquake resistant structure.

3. LOAD COMBINATIONS

Codes specify that earthquake and wind loads do not have to be considered in combination. It is an either/or situation.

The wind resisting capability is more than adequate to withstand the forces created by earthquake since the building dead load is so small.

Yours truly,

BABOWAL BUILDERS & ENGINEERS LTD.



W. Babowal, P. Eng
WB/jn



The Construction, Exhibition, Hazardous Waste, Military, Prison and Warehouse Shelter Systems by **SPRUNG** Instant Structures

THE STRUCTURE

Designed and engineered on the principle of the "Membrane Stress Theory" the structure is the result of almost a decade of intensive research and development. The Sprung Instant Structure is constructed from extruded aluminum arches, integrally connected to an all-weather outer membrane of P.V.C. coated polyester scrim. This synthetic fabric is certified flame retardant.

APPLICATION

Sprung Instant Structures are the answer to any need for enclosed space, quickly and economically, especially where transportation is difficult and speed of installation is essential. Aesthetically pleasing, the structures are available in different colours and sizes, and are suited to both the city and country environments.

ENGINEERING

Sprung Structures may be designed to meet special requirements or to comply with local and special usage codes and standards. By design the structures shed snow, however they can be designed to meet any loading requirement. They also withstand high winds and hail. Standard pre-engineered drawings are available upon request.

FLEXIBILITY

The free-span structure can be erected quickly, and needs little or no surface preparation. The modular design allows built-up areas of unlimited length, easy extension of existing structures and quick dismantling and re-location.

TECHNICAL SPECIFICATIONS

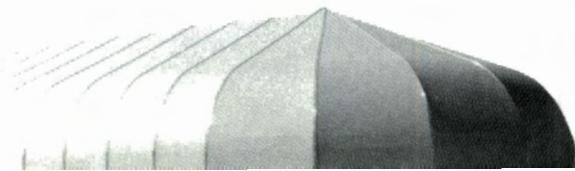
Width:	Feet	30	40	50	60	88.6	120
	Meters	(9.14)	(12.19)	(15.24)	(18.29)	(27)	(36.58)
Module Length:	Feet	9.84	9.84	9.84	9.84	9.84	15
	Meters	(3)	(3)	(3)	(3)	(3)	(4.57)
Height:	Feet	15.9	18.4	23.6	26.2	35.9	58
	Meters	(4.8)	(5.6)	(7.2)	(8)	(10.9)	(17.7)
Weight:	lbs./sq. ft.	1.5	1.5	1.5	1.5	2.5	3.6
	kgs./m ²	(7.3)	(7.3)	(7.3)	(7.3)	(12.2)	(17.6)



OFFICES IN: San Francisco, Ca. Fontana, Ca. Houston, Tx. Allentown, Pa. Atlanta, Ga.

Toll Free
1-800-528-9899
CANADA
1-800-661-1163

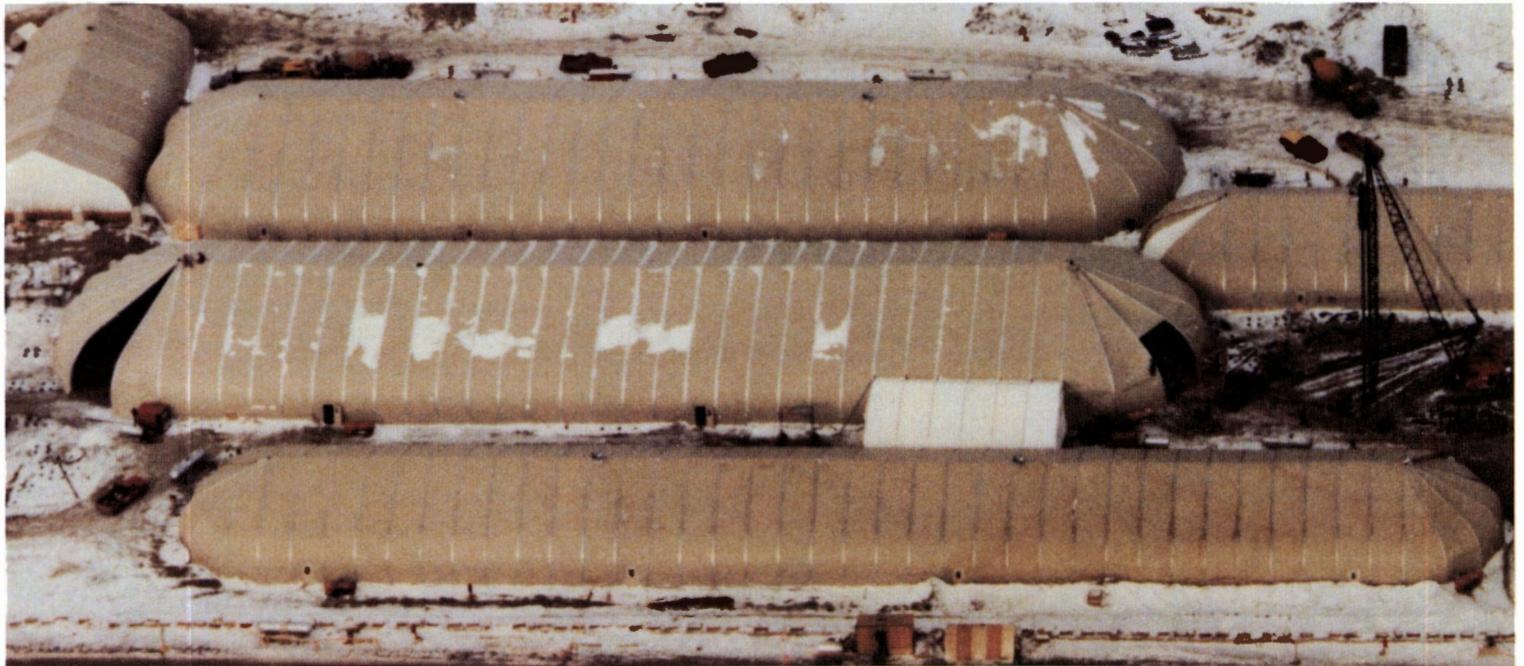
 **SPRUNG**
INSTANT STRUCTURES



MODULAR RELOCATABLE STRUCTURES

Available From Inventory

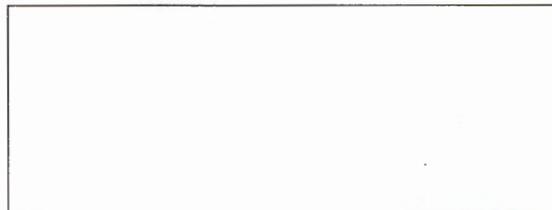
- Doors:** A personnel door is provided with each structure. Doors can be placed in virtually any panel to meet your requirements. Additional doors, double personnel doors, single or double personnel doors complete with panic hardware, vehicle doors and oversized vehicle doors are also available as optional extras.
- Drainage:** Drainage should be provided around the pad to permit adequate dissipation of rain water. Asphalt, concrete or gravel pads should be crowned to assist in water runoff.
- Equipment:** All hand tools required for erection will be provided. It will be the customer's responsibility to provide a crane or cherry picker for a short period of time to erect structures 50 feet (15.24 m) wide to 88.6 feet (27 m) wide. Scaffolding must also be supplied by the customer.
- Erection:** Erection, with a normal sized crew, should proceed at the rate of 1200 to 1500 square feet (110 to 140 sq. m.) per day, weather permitting. When necessary, this figure can be increased significantly by increasing the work force or extending the work day past 8 hours, or a combination of both. Dismantling should proceed at double this rate. An erection consultant will be provided to direct the erection of the structure by the customer's unskilled work force. The consultant's transportation at cost, and living expenses are the customer's responsibility. The consultant will also be provided on the same terms for the dismantling of leased structures.
- Fabric:** The fabric is a durable P.V.C. coated polyester scrim treated with inhibitors to prevent degeneration from the ultraviolet rays of the sun and it is fire retardant (i.e. self-extinguishing). Normal life expectancy is 10 to 12 years. We provide a five year pro-rata guarantee.
- Footings:** Reasonably flat and firm ground requires no preparation or foundation for structures up to 60 feet (18.29 m) in width. Anchorage is obtained with two drift pins at each column base plate. Specific anchor systems are used for sand and muskeg. Structures 88.6 feet wide (27 m) should have concrete footings, if a concrete pad is not being installed. Alternative methods are available if ground conditions meet certain criteria.
- Freight:** Domestic sales are quoted "knocked down" F.O.B. Plant. International sales are quoted C+F Seaport, Country of Destination. Return freight on all leases, is to the customer's account.
- Labour:** It is the customer's responsibility to provide a work force of 6-10 unskilled labourers for erection of single structures up to 88.6 feet in width.
- Lease:** Leases are available in North America for a minimum of one year, with the option to renew semi-annually, as often as required.
- Patents:** Patents are held in Canada, the United States and throughout the world.
- Permits:** It is the customer's responsibility to obtain all necessary building and/or development permits, licenses or clearances of any type for erection and use of the structure.
- Purchase Option:** Leases will have a purchase option exercisable anytime within 12 months from commencement, upon payment of the purchase price in full. Provided that lease payments have been made on time, a credit of 50% of paid lease amounts will be applied to the purchase. Options to purchase will EXPIRE at the end of the first year of the lease.
- Rental:** Month to month rentals can be entered into subject to product availability.
- Repairs:** Fabric and components can be repaired or replaced in a minimum time frame without affecting the stability of the structure.
- Taxes:** All taxes and fees of any type are payable by the purchaser.
- Terms:** Sales: 50% with order. Balance due upon erection. O.A.C.
Leases: 50% of lease payment plus all options with order, 50% of lease payment payable semi-annually in advance until lease cancelled by lessee. O.A.C.
Rentals: 1st month and all extras with order. Additional months in advance, upon receipt of invoice. O.A.C.
- Ventilation:** Electric fans, ventilators and wind driven turbines are available as optional extras.



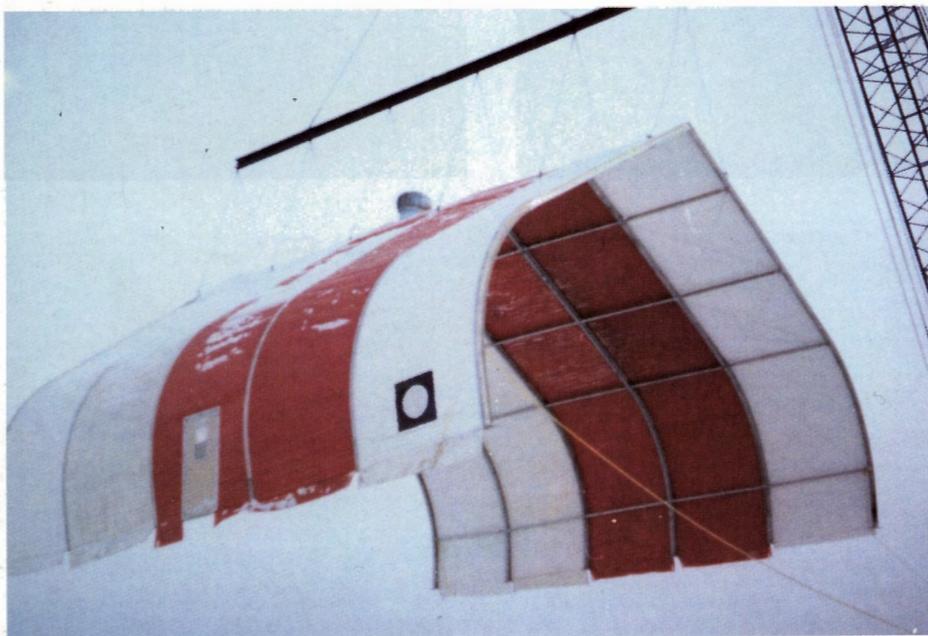
The Construction Shelter System

330 Townsend Street
Suite 217
San Francisco, Ca. 94107

Telephone: (415) 543-6288
Fax: (415) 543-6572
Toll Free: 1-800-777-7864
Canada: 1-800-661-1163



**SPRUNG
INSTANT
STRUCTURES**



SPRUNG INSTANT STRUCTURES

- Available from inventory. Quickly erected and dismantled. Portable and Modular.
- Custom Designs are produced for specific situations.
- The construction industry has proved the application of Sprung Instant Structures in every region and weather condition.
- Protects the jobsite from the elements. Increases labour productivity. Decreases equipment maintenance.
- From the high arctic to the tropics, Sprung Instant Structures provide the ultimate in climatic protection and control.
- Can be erected without footings or foundations on virtually any reasonably flat firm surface.
- Sized to meet individual specific requirements.
- Lease or Purchase anywhere in the world.
- Sprung Instant Structures have been used in every segment of industry.
- Some past and current uses include:
 - Warehousing
 - Maintenance shops
 - On site fabrication sheds
 - Covered Work Sites
 - Dragline assembly
 - Pressure tank construction
 - Portable factories
 - Recreation and accommodation
 - Environmental Protection

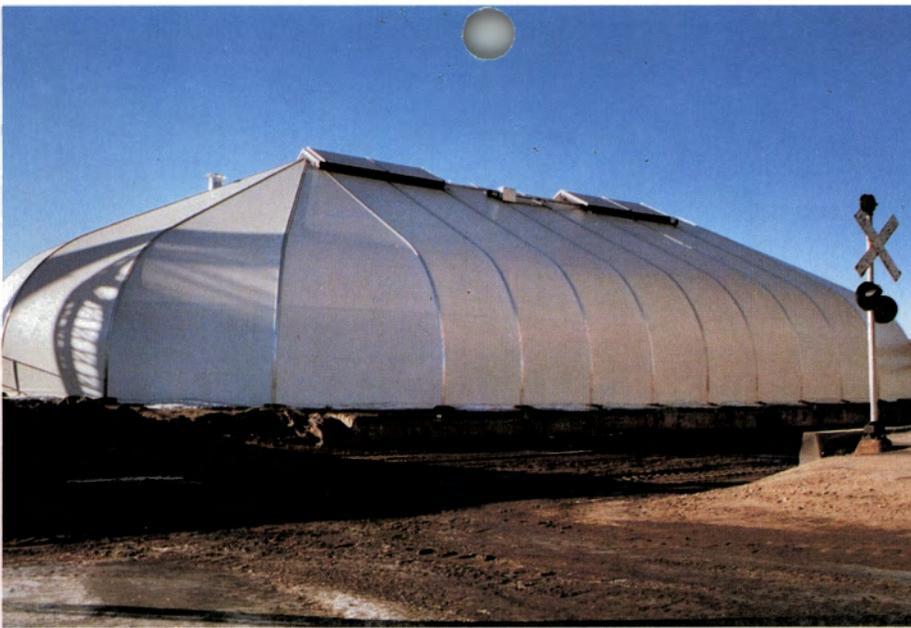




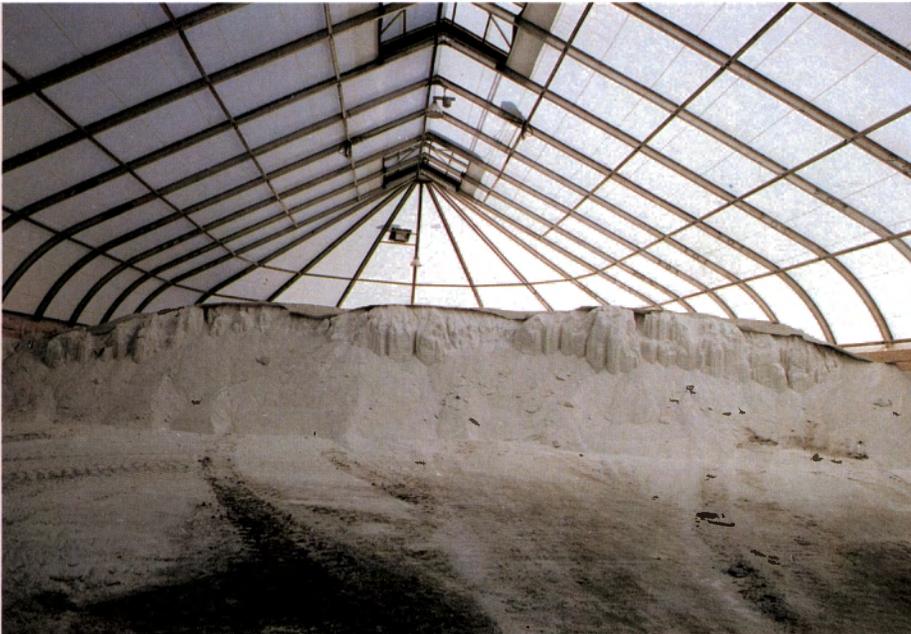
The Warehouse Shelter System

by

SPRUNG
Instant Structures



From bulk storage to vehicle warehousing Sprung Instant Structures has performed worldwide for a host of satisfied users.

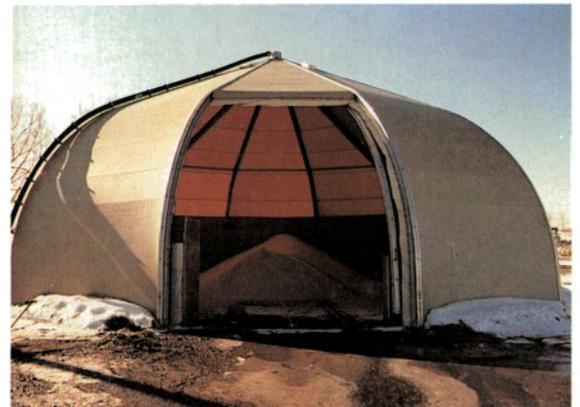


Fast and efficient, no-one else can offer the flexibility and economics of this unique shelter system.

- Available from inventory. Quickly erected and dismantled. Portable and Modular.



- Sized to meet your specific requirements.



PRUNG INSTANT STRUCTURES



- Can be erected without footings or foundations on virtually any reasonably flat firm surface.



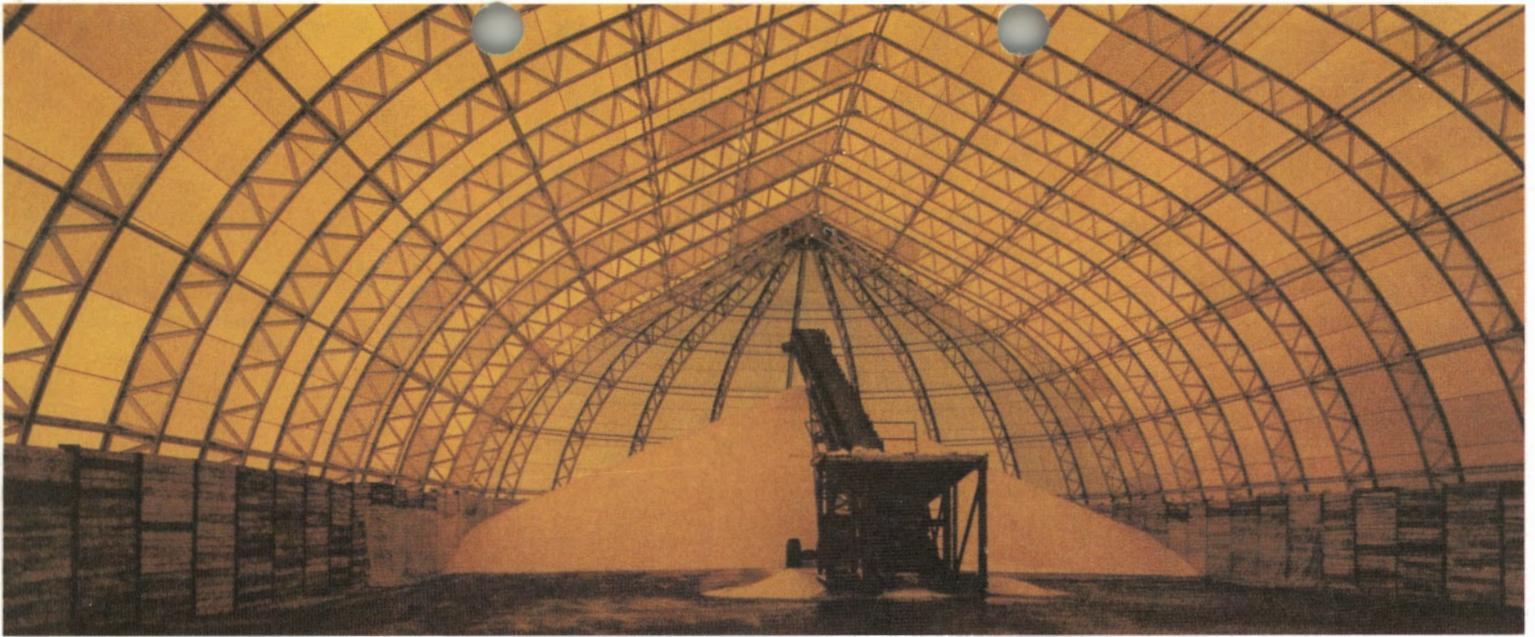
- Lease or Purchase, anywhere in the world.



- May be used for many applications.

- Custom Designs are produced for specific situations.





- Some other past and current uses include:

Warehousing
Vehicle Maintenance Shops
Portable Factories
Winter Storage
Environmental Protection
Bulk Storage
Showrooms and Retail Space
Accommodation and Recreation

FOR FULL DETAILS AND SPECIFICATIONS,
CONTACT:

 *Spring Instant Structures Inc.*

OFFICES IN:
San Francisco, Ca. Allentown, Pa.
Houston, Tx. Atlanta, Ga.

TOLL FREE
1-800-528-9899

CANADA
1-800-661-1163

PATENTED WORLDWIDE

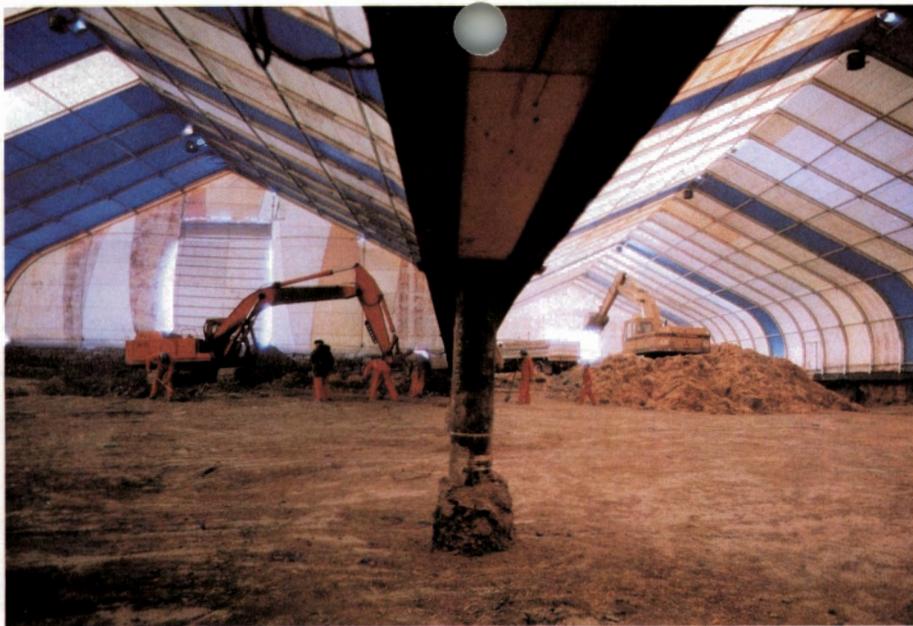


The Construction Shelter System

by

SPRUNG
Instant Structures

SPRUNG INSTANT STRUCTURES



The ideal all weather cover for construction projects around the world.

The construction industry has proved the application of Sprung Instant Structures in every region and weather condition.

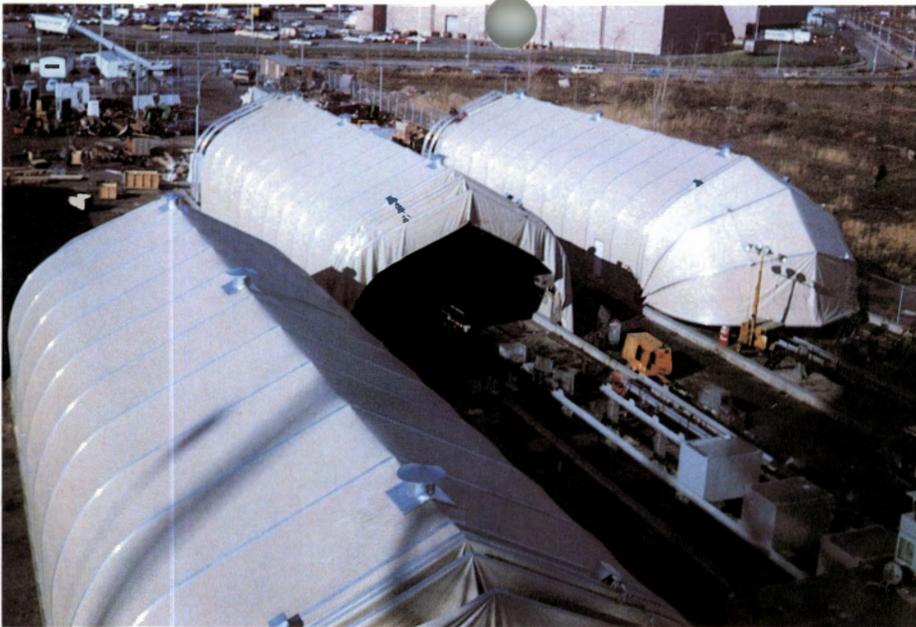


From the high arctic to the tropics, Sprung Instant Structures provide the ultimate in climatic protection and control.

Sprung Instant Structures are ideally suited for toxic waste exhumation, due to their ability to maintain a constant negative air pressure.



ERECTED INSTANT STRUCTURES



- Protects the jobsite from the elements. Increases labour productivity. Decreases equipment maintenance.

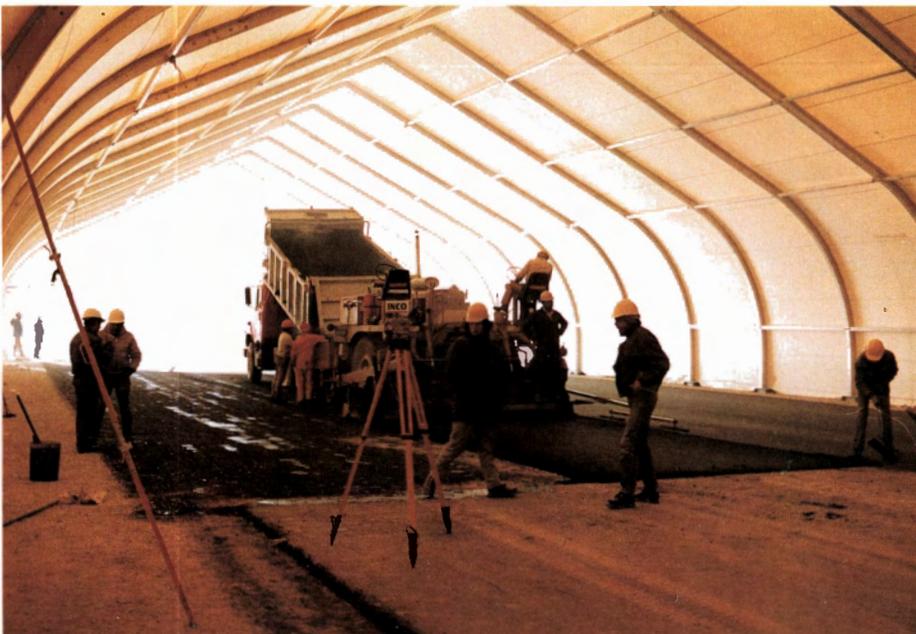
- Can be erected without footings or foundations on virtually any reasonably flat firm surface.



- Sized to meet individual specific requirements.

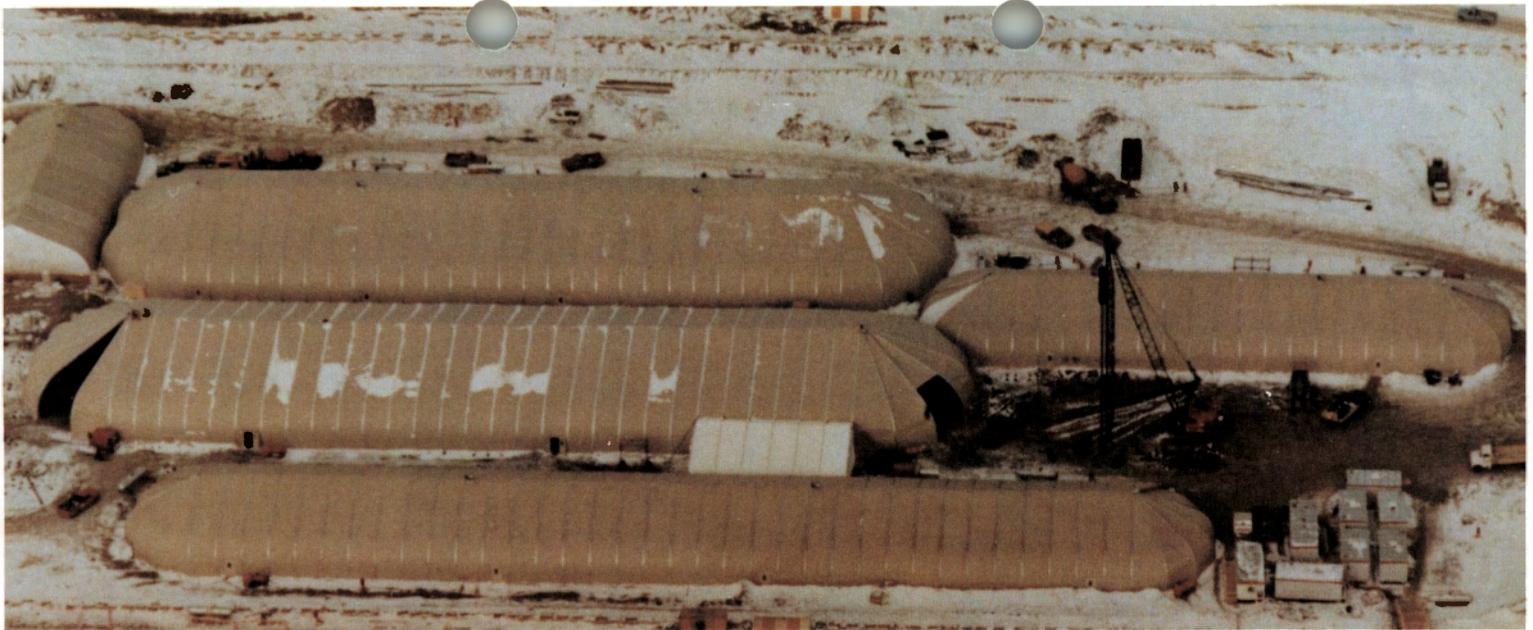
- Lease or Purchase, anywhere in the world.

- Available from inventory. Quickly erected and dismantled. Portable and Modular.



- Custom Designs are produced for specific situations.





- Some other past and current uses include:
- Warehousing
- Vehicle Maintenance Shops
- Portable Factories
- Winter Storage
- Environmental Protection
- Bulk Storage
- Showrooms and Retail Space
- Accommodation and Recreation
- On Site Fabrication Sheds
- Toxic Waste Exhumation

FOR FULL DETAILS AND SPECIFICATIONS,
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PATENTED WORLDWIDE



The Hazardous Materials Shelter System

by

SPRUNG
Instant Structures

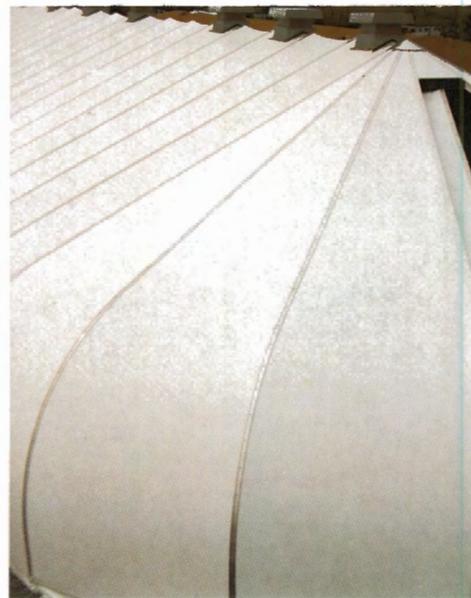
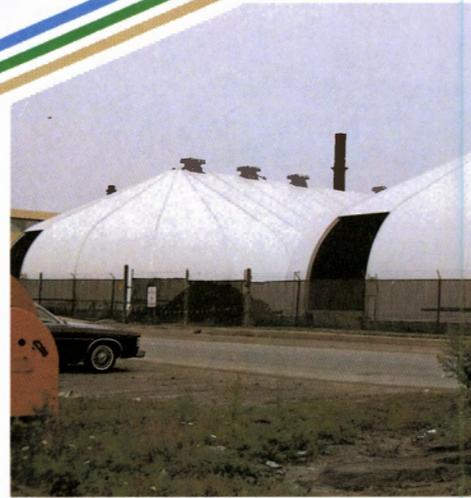


SPRUNG INSTANT STRUCTURES

Sprung Instant Structures have provided shelter systems to a large segment of the hazardous waste industry. The Sprung Structure has become a recognized industry standard.

Sprung Structures are ideal for site remediation work by providing shelter for personnel, material, and equipment. The Sprung Structure provides a sealed environment thus offering effective containment of emissions from excavations.

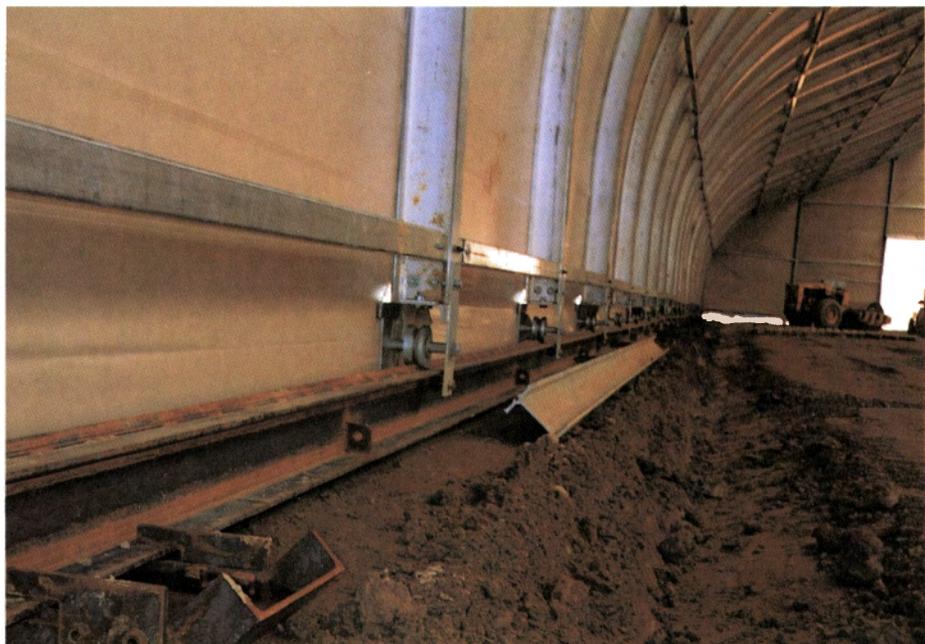
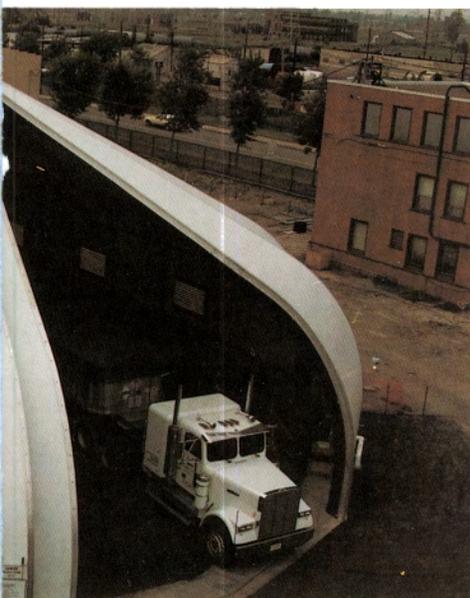
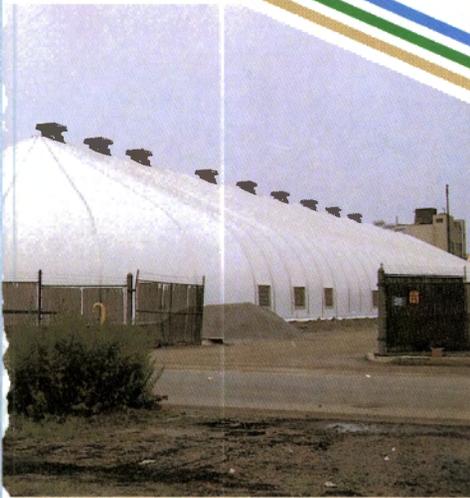
A Sprung Structure was utilized on the McColl Superfund Site where it was concluded that emissions should be treated within an enclosure in order to provide maximum protection to the environment.



SPRUNG INSTANT STRUCTURES



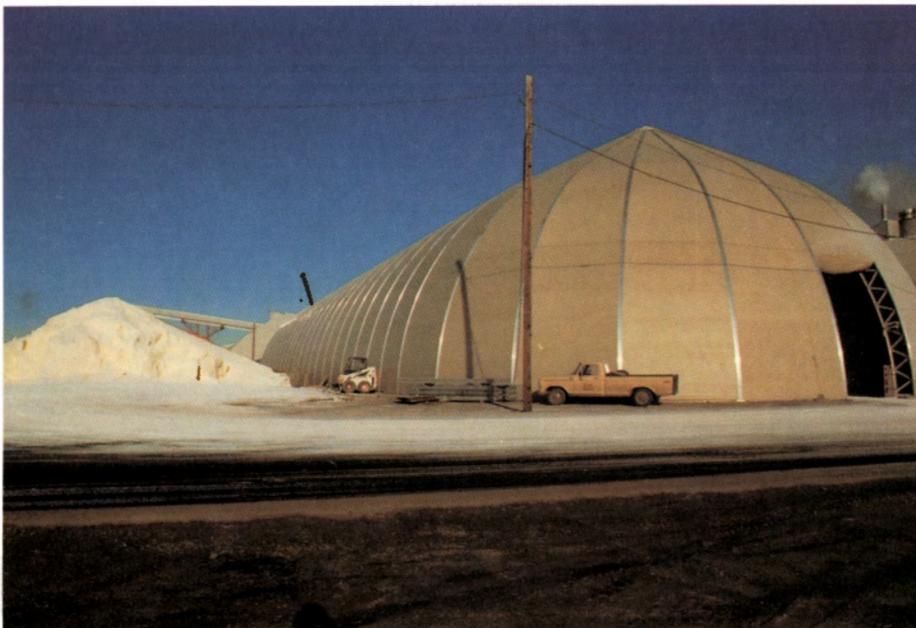
- Can be erected without footings or foundations on virtually any reasonably flat firm surface.
- Provides a sealed enclosure - Can be customized to maintain a positive or negative pressure.
- Available from inventory. Quickly erected and dismantled.
- Can be crane lifted or moved on a track wheel system.
- Custom designs are produced for specific situations.
- Sized to meet individual specific requirements.
- Can be easily heated or air conditioned.
- Portable and modular.



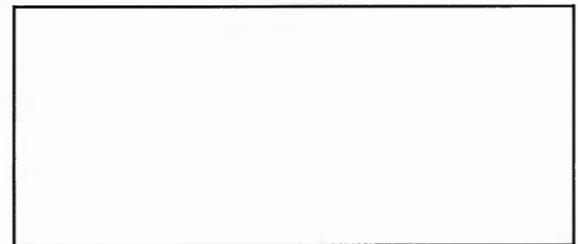


Past and Current Uses

- Transuranic Waste Treatment & Storage
- Radioactive Vault Storage
- Soil Remediation
- Asbestos Abatement
- Sludge Pond Covers
- Waste Remediation
- Earth & Clay Drying
- Environmental Protection
- Warehousing
- Vehicle Maintenance Shops
- Fabrication Shops



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