

Sprung Structures

FOB Facilities



Schofield Barracks - Hawaii, USA

High Performance Building Solutions

Tensioned Membrane Structures Available Immediately from Inventory



Corporate Overview

SPRUNG INSTANT STRUCTURES, INC.

Our durable, precision-engineered structures are the solution of choice for a broad range of industries needing a fast, reliable and cost-effective building solution.

Sprung Instant Structures, Inc. is a member of the Sprung Group of Companies in business since 1887, which has achieved international recognition by providing shelter solutions for thousands of different applications in over ninety countries throughout the world.

Sprung is the inventor of the stressed membrane structure, engineered to accommodate the world's need for enclosed space quickly and economically.

This innovative building solution utilizes architectural membrane panels placed under high tension within a non-corroding aluminum substructure. Sprung provides an optional superior performing energy efficient Johns Manville formaldehyde free insulation package.



Schofield Barracks - Hawaii, USA



The proven advanced and responsive building solution.



Sprung Group of Companies
Providing shelter solutions
since **1887**



Housing Units

Superior performing tensioned membrane structures.



Schofield Barracks - Hawaii, USA

Aluminum Substructure

Corrosion-resistant and 100% recyclable, aluminum has a higher strength-to-weight ratio than steel. 30 year pro rata guarantee.

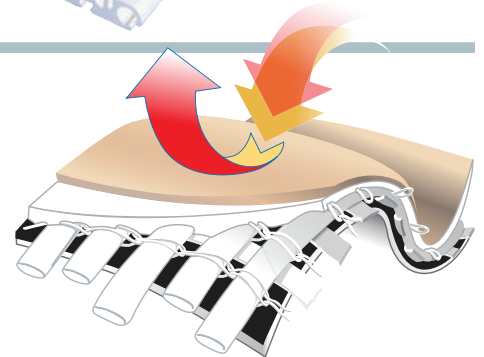
- Engineered to withstand significant wind loads
- By design shed snow
- Relocatable



Performance Architectural Membrane

The exterior architectural membrane is durable and fire resistant. The Tedlar and Kynar coated membranes are offered in a wide choice of color options and are virtually maintenance free.

- 20 year pro rata guarantee
- Patented tensioning system



Premium Insulation

The Sprung structure reduces climate-control costs with an exceptional well sealed fiberglass blanket insulation system.

- Lowers energy costs.



Fort Knox - Kentucky, USA

Providing shelter solutions
since **1887**



Schofield Barracks - Hawaii, USA

COLORS ON THESE ELEVATIONS MAY VARY SIGNIFICANTLY DEPENDING ON PRINTER OR MONITOR. PLEASE REFER TO MEMBRANE SAMPLES FOR ACTUAL COLORS.

STRUCTURE TO PROVIDE SPACE FOR 10 MEN @ 70.5ft²± PER MAN

MEMBRANE FLAT END PANEL

5"x6" ALUM. I BEAM

13'-6 9/16"

19'-2"

SECTION 19'-2" HOOD
1/8" = 1'-0"

3 PANELS @ 12'-6" = 37'-6"

CABLE BRACING

SINGLE PERSONNEL DOOR (3'0"x7'0")

1

2

3

4

5

MEMBRANE FLAT END PANEL

6

7

8

9

10

19'-2"

PLAN VIEW
1/8" = 1'-0"

CABLE BRACING

MEMBRANE FLAT END PANEL

TAN

MEMBRANE FLAT END PANEL

Spring
STRUCTURES

SPRUNG LOGO, 2 PER STRUCTURE

ELEVATION
1/8" = 1'-0"



Spring
STRUCTURES

19.2' x 37.5' BARRACKS

DATE 09/06/2013
SCALE AS NOTED

DRAWING # F13-859A-R2

SIGNATURE SERIES

Single Unit - Non Insulated

| Width | Length |
|--------|--------|
| 19' 2" | 37.5 |

Included Accessories

| | |
|--------------------------------------|--|
| 1 - Bay of Cable Bracing | |
| 8 - Earth Anchors | |
| - Perimeter Aluminum Flat Bar Finish | |
| 3 - Penetration boot kits | |
| 1 - Single Personnel Door | |



Fort Knox - Kentucky, USA



Fort Knox - Kentucky, USA

A Better Way to Build

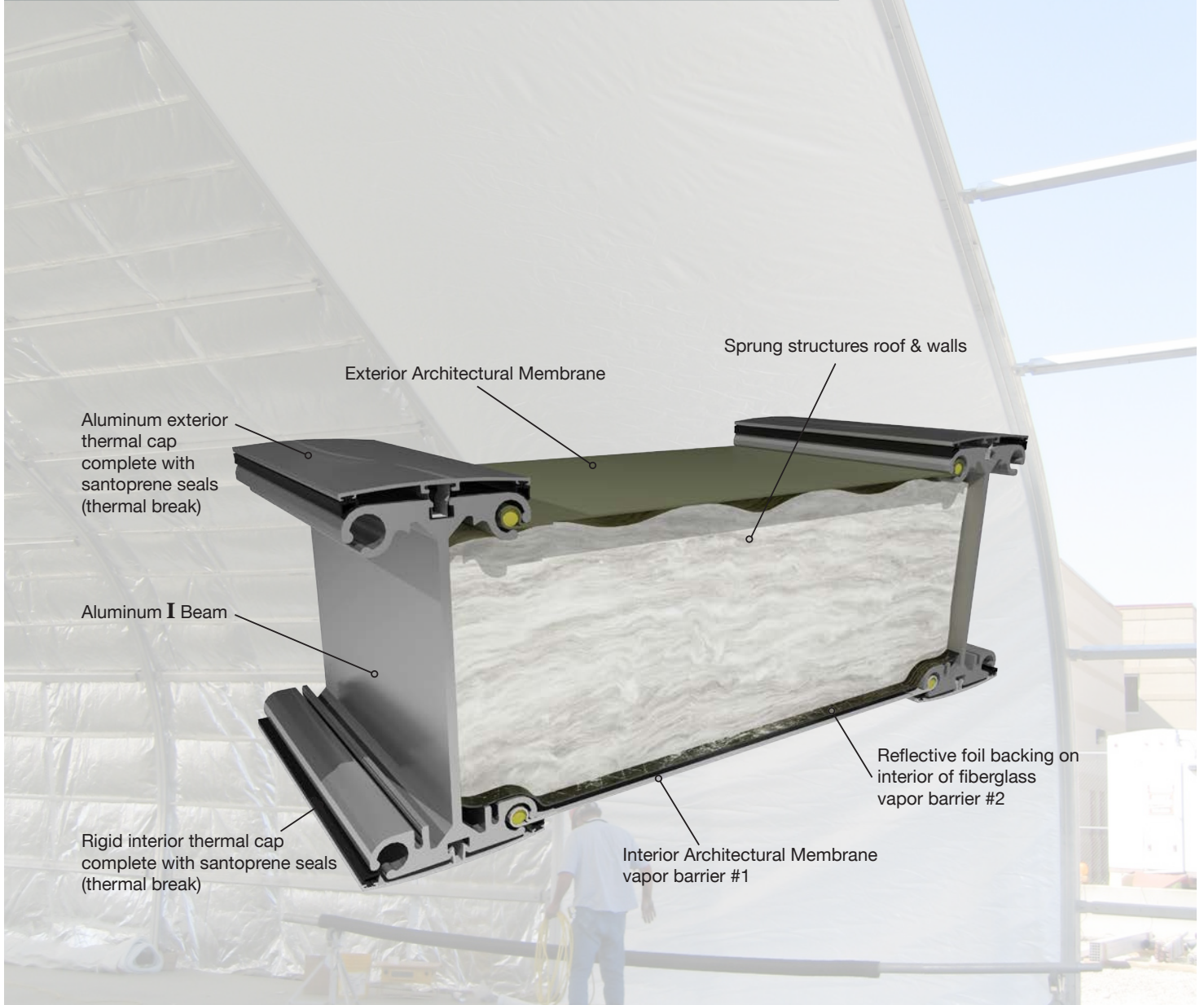


Fort Knox - Kentucky, USA

Insulation Package - Single Unit

Included Accessories

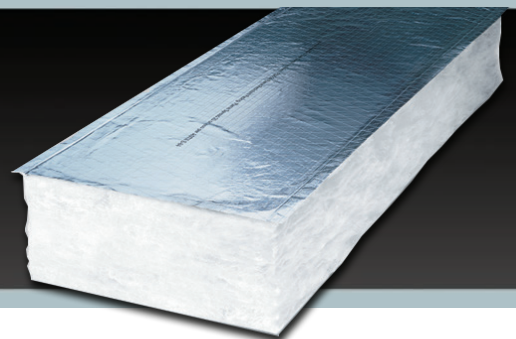
- Fiberglass Insulation
- White Interior Liner



Energy Efficient Insulation Packages

Premium Insulation

Our comprehensive insulation package includes formaldehyde-free foil-backed fiberglass insulation.



Fluorescent Lights - Single Unit

8

Fluorescent Lights - 5 Unit Pack

40



Vapour tight Linear fluorescent VT2 & VT4 Series 14 to 54W



Approvals:

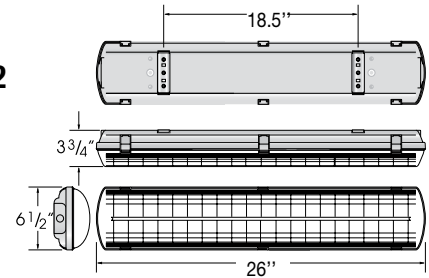
CSA certified luminaires, certified to CSA C22.2 #141
Suitable for wet and damp locations.

Flame spread rating **FSR85**

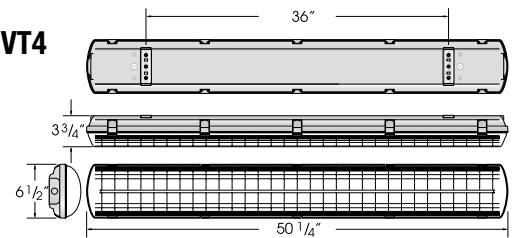
Smoke classification **SDC430**

IP65

VT2



VT4



Description

The Stanpro VT2/VT4 series of sealed 2 foot linear fluorescent luminaires are ideal for a variety of industrial, commercial, vandal resistant and residential applications. The housing is sealed with a uniform gasket that blocks the ingress of moisture and dust and reinforced snap clips lock the luminaire together. Polycarbonate construction makes the luminaire lightweight, flexible, vandal resistant and highly impact resistant. As well, the UV stabilized polycarbonate housing and lens is impervious to rust or rot and is unaffected by extreme temperatures. Installed either indoors or outside, the VT2/VT4 provides superior light distribution with one (1) or two (2) T8 or T5 lamps (not supplied).

Features

The VT2/VT4 is designed with a polycarbonate housing and lens. The housing is moulded with a recessed conduit knockout at either end along with row mounting, end aligners. A sealed, plastic cable gland and stainless steel mounting hardware are included with each luminaire. The VT2/VT4 can be

surface wall/ceiling mounted or suspension mounted with supplied clips. The internal white steel reflector shall be gullwing shaped for maximum light output. A steel ballast mounting plate adds rigidity and facilitates ballast cooling.

Circuitry

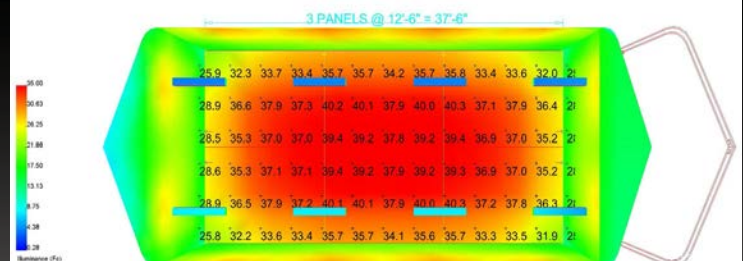
Electronic instant start ballasts are supplied standard; programmed rapid start are supplied, standard for T5 lamps, other ballast are optional. Freezer, dimmable and emergency backup ballasts are available optionally. Electronic ballasts have many advantages over their magnetic and hybrid counterparts. They operate at a frequency over 20kHz greater rather than the 60Hz of magnetic and hybrid types. This takes advantage of increased fluorescent lamp efficacies at these higher frequencies. Electronic circuitry generally results in a more efficient, lighter and quieter design.

Warranty

As always, Stanpro is Focused on Quality. For complete warranty details, please see our terms and conditions.

SUSPENDED

White interior lining.



Electrical Package - Single Unit

Unit Package Includes:

- 100 Amp 3ph 480V panel
- 8 - light connections
- 16 - receptacles
- 2- HVAC connections
- Generator - 25KW 400V 3 Phase 50 ZH portable stand alone generator 4 hour fuel tank
- Flexible cabling with quick connections from generator to structure

Electrical Package - Five Unit Pack

Unit Package Includes:

- 100 Amp 3ph 480V panel
- 8 - light connections
- 16 - receptacles
- 2- HVAC connections

Site Distribution Package Includes:

- Generator - 100KW 400V 3 Phase 50 ZH Weather Proof L2 enclosure and 12 hour fuel tank
- 400 Amp 480V 3 phase 4 wire switch board weather proof
- Flexible cabling with quick connections from switch board to structures



Sprung structures are available immediately from inventory.



HVAC Package - Single Unit

Included Accessories

2 - LG-24 ductless split HVAC systems

- Mounting Brackets

- Penetration Kits

HVAC Package - Five Unit Pack

Included Accessories:

10 - LG-24 ductless split HVAC systems

- Mounting Brackets

- Penetration Kits

LA240HSV2

Art Cool™ Single Zone Inverter

Outdoor Unit (ODU)- LAU240HSV2 Indoor Unit (IDU)-LAN240HSV2

Performance:

Cooling:

| | |
|------------------|--------|
| Capacity (Btu/h) | 22,000 |
| SEER | 20.0 |
| EER | 10.8 |

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

| | |
|------------------|--------|
| Capacity (Btu/h) | 27,600 |
| HSPF | 10.0 |

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions:

Indoor: 80°F DB/67°F WB
Outdoor: 95°F DB/75°F WB

Heating Nominal Test Conditions:

Indoor: 70°F DB/60°F WB
Outdoor: 47°F DB/43°F WB

Electrical:

Outdoor Unit:

| | |
|------------------------|--------------|
| Power Supply (V/Hz/Ø) | 208-230/60/1 |
| MOP (A) | 30 |
| MCA (A) | 19 |
| Cooling Rated Amps (A) | 17.0 |
| Heating Rated Amps (A) | 17.0 |
| Compressor (A) | 14.6 |
| Fan Motor (A) | 0.75 |

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Indoor Unit:

| | |
|--------------------------|--------------|
| Power Supply (V/Hz/Ø) | 208-230/60/1 |
| Cooling Power Input (kW) | 2.04 |
| Heating Power Input (kW) | 1.67 |

Operating Range:

Outdoor Unit:

| | |
|-----------------|--------|
| Cooling (°F DB) | 14-118 |
| Heating (°F DB) | 5-75 |

Indoor Unit:

| | |
|-----------------|-------|
| Cooling (°F DB) | 64-90 |
| Heating (°F DB) | 61-86 |

Unit Data:

| | |
|--|----------|
| Refrigerant Type | R410A |
| Refrigerant Control | EEV |
| Refrigerant Charge (lbs) | 3.97 |
| ODU Sound Pressure Max (±3 dB(A)) ³ | 53 |
| IDU Sound Pressure (H/M/L) (±3 dB(A)) ³ | 45/40/35 |
| ODU Net Unit Weight (lbs) | 133 |
| ODU Shipping Weight (lbs) | 142 |
| IDU Net Unit Weight (lbs) | 38 |
| IDU Shipping Weight (lbs) | 42 |
| Heat Exchanger Coating | GoldFin™ |

Fan:

| | |
|----------------------------------|---------------------------------------|
| ODU Type | Propeller |
| IDU Type | Cross Flow |
| Fan Speeds (Fan/Cooling/Heating) | 5/6/6 |
| Quantity (ODU + IDU) | 1 + 1 |
| Motor/Drive | Brushless Digitally Controlled/Direct |
| ODU Max Air Flow Rate (CFM) | 2,119 |
| IDU Air Flow H/M/L (CFM) | 632/526/399 |
| Dehumidification (pts/hr) | 5.5 |

Piping:

| | |
|--|------|
| Liquid Line (in, OD) | 3/8 |
| Vapor Line (in, OD) | 5/8 |
| Additional Refrigerant (oz/ft) | 0.38 |
| Max Pipe Length (ft) ² | 98.4 |
| Piping Length (no add'l refrigerant, ft) | 24.6 |
| Max Elevation (ft) | 49.2 |

Features

- 4-Way auto swing
- 24-Hour on/off timer
- Auto restart
- Auto changeover
- Built-in low ambient standard, down to 14°F (cooling mode)
- Chaos wind
- Condensate Sensor Connection
- Energy saving
- Inverter (variable speed compressor)
- Jet cool/Jet heat
- Plasma air purifying system
- Self-cleaning indoor coil
- Sleep mode
- Ultra quiet operation



Sprung structures are designed for extreme weather conditions. Sprung tensioned membrane structures can be shipped and constructed in challenging conditions.

AHRI CERTIFIED™
www.ahridirectory.org

Unitary Small AC
AHRI Standard 210/240

Certification applies only when the complete system is listed with AHRI.

Flooring System - Single Unit

Included Accessories

- Portafloor Pro Flooring System


Flooring System - Five Unit Pack

Included Accessories:

- Portafloor Pro Flooring System

**34,000 psf
(168,000 kgf/m²)**

**Durable
and
Reusable**

| | |
|--|---|
| Dimensions: | 24" x 6" x 15/16" in. (61 cm x 15 cm x 2.4 cm) |
| Weight | 1.35 lbs. (612 grams)/piece |
|  Material | High Impact Grade Polypropylene Copolymer 100% Recyclable |
| Color: | Granite |
| UV Stability | 1.0 UV Stabilized for Outdoor Use or Storage |
| Connection System | Built-in positive locking mechanism. Individual treads connect on every edge. Transition edges available. |
| Load Capacity | 34,560 lbs/ft ² (240 psi) or 168,736 kgf/m ² |
| Fire Rating | UL 94 HB |
| Chemical Resistance to | Acids, Solvents, Petroleum Products |
| Warranty | 5 year limited |
| NSN Number | 7220-01-598-5013 |

PORTAFLOOR PRO™

GSA

GS-07F-5512R

DEPLOYABLE ON SAND, MUD AND DIRT

STRONG 

Portafloor PRO™ PortaFloor PRO supports over 34,000 psf (240 psi) and is the best temporary flooring system in the world.

ROLLABLE 

Portafloor PRO™ is designed to roll in to place for quick installations and removals. PRO is engineered to be light and lean with large sections that provide additional support and stability.

EASY - 1 2 3

Portafloor PRO™ locks together for firm and stable support and is the perfect solution for shelter and portable structure flooring.

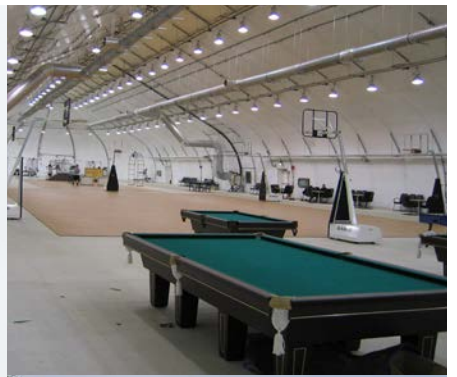
GREEN 

Portafloor PRO™ is 100% recyclable. PRO was designed to support today's zero footprint and green initiatives. All PortaFloor products have been submitted for Environmental Product Declarations (EPD), and Life Cycle Assessments (LCA) that provide benchmarks for continuous improvement, innovation and LEED credits.

Sprung Structures

Can be erected in a fraction of the time compared to conventional construction.





Sprung structures provide significant advantages over tent technology.

Available immediately from inventory. Designed to meet hurricane force winds. Designed to shed snow. Designed for permanent applications. Relocatable. Energy efficient insulation system.



Dining Facilities

Superior performing tensioned membrane structures.



MWR Facilities

Superior performing tensioned membrane structures.



A Better Way to Build





A Better Way to Build





Providing shelter solutions
since 1887



Sprung Structures

FOB Facilities



Schofield Barracks - Hawaii, USA

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