

Sprung Structures

A Better Way To Build

Rapid Construction. Design Flexibility. Performance & Durability. Lower Overall Costs.

Grōv Technologies, Utah Controlled Environmental Agriculture



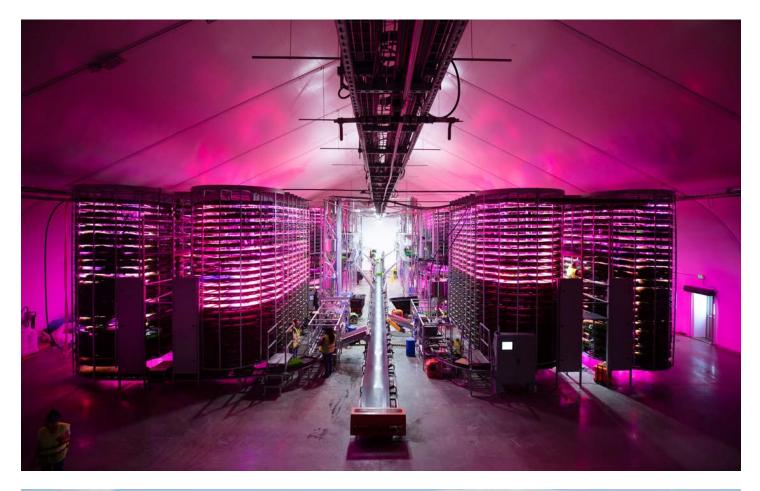


Project Overview:

- Client: Grov-Bateman Feed Production Center
- **Challenge:** Farmers are faced with the challenges of feeding growing populations, changing climates, water shortages, less arable land and unforeseen supply chain disruptions.
- Solution: 100 wide x 180 long Sprung Structure with encapsulated insulation.
- **Results:** The Grōv-Bateman feed production center, located on Utah's largest dairy can accommodate 10 GrōPods[™] and is capable of growing about 25-tons of fresh animal feed a day. This unique CEA (Controlled Environmental Agriculture) building represents the annual yield of nearly 750 acres on a footprint of 18,000 ft². The Sprung Instant Structures design enables rapid construction, energy efficiency, superior climate controls, and extreme weather tolerance.

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P18-197.0 2 10/10/16 2019. Constraints and constraint K. MEDI RESOME A HETRIC, VERTILATO B 40 CONDUME STELL FOR A THY CE RELUNCE, IT 6 MARCHAFT O THY CE RELUNCE, IT 6 MARCHAFT O THY CE RELUNCE, IT 6 MARCHAFT O HAT HAN E READ CONDUCT A MARCHAFT A MORE FRESSINE EACH MARCHAFT A MORE FRESSINE FRESSINE EACH MARCHAFT A MORE FRESSINE FRESSINE FRESSINE FRESSINE A MORE FRESSINE FRESSINE FRESSINE FRESSINE A MORE FRESSINE FRESSINE FRESSINE FRESSINE A MORE FRESSINE FRESSINE FRESSINE A MORE FRESSINE FRESSINE FRESS ovation versatility reliabili TOLL FREE: 1-800-528-9899 or (403) 601-2292 www.sprung.cc GENERAL NOTES: 1. ALL PEYSONNEL DOORS C/W PWNC HNDIWNEE & HODDS Structure to be insulated with Fiberclass batt insulation C/W inner Liner, to peak. 100.0' × 180.0' GROW POD INNER & OUTER MEMBRANE TO BE FINISHED TO CONCRETE USING ALLIM. F BAR 5. This structure is designed to shed/release snow. The permeter the structure is designed to 7. All interior walls & partitions Applicable) to be free standing & independent of sprung structure. 4. STRUCTURE MEUBRANE METTS: NFPA 701, OMERGRAM STATE FIRE MA ASTM EB4, CAN/ULC-S-109 & CUN/ULC-S-102 SPECIFICATIONS, DATE 01/13/20 APP'D BY SIGNATURE SERIES hull onrin GROVIV SCALE AS NOTED CUST. APPL DRAWN BY N. BUTT CHECKED BY R HOLLOW 4"x3" MEMBRANE FLAT END WALL C/W UPRIGHTS MEMBRANE FLAT END WALL C/W UPRIGHTS (5) SECTION 10'-0" HOOD 1/4"=1'-0" 21'-4" 21'-4" 10'-0" 120 26 (1970) 3/32"=1'-0" INSULATED STRUCTURE 6 LET FLAT END 100'-0" INSULATED STRUCTURE 3/32"=1'-0" 18'-0" 18'-0" .*/2 2-,11 21'-4" 100'-0" 100'-0" 21'-4" \times -1 1 FIBERGLASS INSULATION (R30) EXTERIOR 1 4 8"x12" INSULATED BEAM SECTION 3"=1'-0" LARGE LOG0 -(16'0x16'0) LARGE LOGO . (16'0x16'0) 18'-0" 18'-0" .0-,01 · 10--0 21'-4" 21'-4" 8"x12" Alum. 1 Beam 8"x12" ALUM. BEAM ALUM. /2"# POLY ROPE 8"x12" / #0,-10 2\8" "8/2 01-'01 INTERIOR THFRMAL C COLORS ON THESE ELEVATIONS MAY VARY SIGNIFICANTLY DEPENDING ON VARY SIGNIFICANTLY DEPENDING ON DEMINIFIER OR MONITOR. PLEASE REFER TO MEMBRANE SAMPLES FOR ACTUAL COLORS. Confirmation of wind speed at site per the local building dept. Building Code: DRAWING APPROVAL MPH, Exposure Print Name Signature SINGLE PERSONNEL TOP LITE & HOOD LIGHT (NO HOOD) Initial Date: MEMBRANE FLAT END WALL C/W UPRIGHTS MEMBRANE FLAT END WALL C/W UPRIGHTS MEMBRANE FLAT END WALL C/W UPRIGHTS SPRUNG LOGO, 2 PER STRUCTURE SPRUNG LOGO, 2 PER STRUCTURE . CONTROL MECH INTERIOR SHOWN FOR REFERENCE ONLY, FINAL LAYOUT DESIGNED & SUPPLIED BY OTHERS. 8 CB CB П POD POD 8 8 8 GROW GROW > > POD Pop UPPER UPPER) (GROW GROW 12 PANELS @ 15'-0" = 180'-0' 10'W HOOD (4x3) C/W SINGLE PERSONNEL DOOR (3'0x7'0) W/ TOP LITE & HOOD LIGHT .> > POD BO 0 0 GROW GROW CONVEYOR GREEN GREEN L L 1 OPEN PLAN VIEW 1/16"=1'-0" 3 REAR ELEVATION 1/16"=1"-0" WAINSCOT WAINSCOT POD POD 1 1 2 ELEVATION 197.0 1/16"=1'-0" GROW GROW 8 B B DOD DOD 8 8 8 GROW GROW SINGLE PERSONNEL DOOR (3'0x7'0) W/ TOP LITE & HOOD LIGHT (NO HOOD) MEMBRANE FLAT END WALL C/W UPRIGHTS MEMBRANE FLAT END WALL C/W UPRIGHTS FRAMED OPENING (SIZE TBD)

BRACING CABLE A ROLLING SERVICE DOOR (10'x10') W/ HOOD LIGHT

FLAT C/W

MEMBRANE F END WALL C UPRIGHTS

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Top 5 Reasons to Choose Sprung:

- **1. Immediate Delivery from Inventory** Fabric tensioned structures can complete projects in a much shorter time-frame than conventional construction.
- **2.** Engineered for Even the Most Extreme Climates Enjoy peace of mind: Sprung structures are engineered to withstand extreme weather conditions.
- **3.** Limited to No Foundation Requirements Structures can be easily anchored to existing asphalt or raw earth.
- 4. Airtight Air tightness within a Sprung structure can be said to be almost zero due to the type of wall construction used. The entire building structure has been specifically designed to prevent air flow while maintaining strong structural integrity.
- 5. Lease with Option to Purchase Increase your cash flow savings with Sprung's convenient in-house leasing program.

Sprung Structures

For four generations, Sprung has designed solutions for every conceivable application. Inventory-ready building solutions that consistently outperform other building alternatives.

- Sprung structures can be dismantled, reconfigured, re-erected, or relocated for almost any number of applications and virtually every market sector in the world.
- Beyond providing all-weather shelter for equipment and inventory, Sprung structures provide bright, spacious high performance, energy efficient environments.
- To date, Sprung has completed over 12,000 structures in more than 100 countries worldwide.