

CALHOUN



42' x 56' CC-SERIES



1000' x 132' VP-SERIES

SPORTS & RECREATION



82' x 200' HT-SERIES

OUR STRENGTH IS IN OUR STRUCTURE

calhounsuperstructure.com | 1-800-265-3994



65' x 140' VP SERIES

OUR STRENGTH IS IN OUR STRUCTURE

We design and engineer our structures site-specific to your unique location. Critical to the performance and reliability of your building. Essential to the longevity of your investment.



BRIGHT & AIRY

The natural light of Calhoun's fabric structures permeate the indoor facility, reducing energy costs while increasing the level of comfort and visibility to teams and audiences. Furthermore, you can incorporate HVAC systems and insulation for complete climate control.



CLEAR SPAN INTERIOR

Our clear span interior means there are no poles, pillars, or interference. You have the space to hold your sport or entertainment events while maximizing crowd expectancy. The increased space creates additional income potential making the structure more versatile without sacrificing the safety and security of audiences. The open floor plans offer well-ventilated spaces and reliable airflow.



SAFETY FIRST

Our custom-engineered fabric buildings provide a flexibility that increases access points for emergencies. Customized height preferences also allow for the addition of sprinkler systems and emergency lighting. These affordable considerations increase the safety of your structure easily without delaying the building process. Our fabric buildings are built to code and approved for use in a variety of recreation applications.



ENGINEERED TO LAST

Our highly-trained engineers, designers and detailers have spent years building the strongest and safest structures available specifically for your industry.



FULLY CUSTOMIZABLE

With a variety of structure designs and configurations to choose from, we custom-engineer your fabric structure any way you like. Skylights and solar panels can easily be added to the building to increase visibility, making our structures energy efficient.

WE UNDERSTAND FABRIC

Calhoun uses both HDPE fabric and PVC fabric, in either non-fire resistant (Non-FR) or fire resistant (FR), providing you with different fabric cover options relative to your specific needs.

Our fabric is produced to withstand harsh weather conditions and treated

with ultraviolet stabilizers to protect it from the sun's UV rays. This prevents the fabric membranes from weakening or breaking down, adding years to life for your fabric cover.

With a Calhoun fabric cover, you also select from a variety of colors

for greater aesthetic appeal and customization.

We also offer two fabric cover installation options depending on the size and budget of your structure: Keder Panel System or Bag Cover System. Contact Calhoun to find out more.

HOT DIP GALVANIZATION

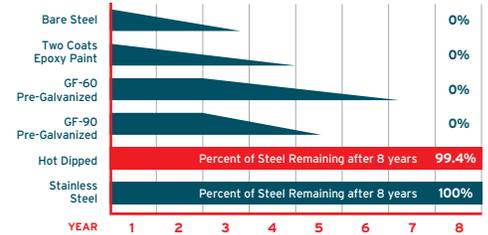
The framework for a properly engineered fabric structure is treated to a hot dip galvanized mixture that increases the zinc coating to 3.9 mm inside and out.

The dipping process covers the framing materials down to the smallest crevices that go unnoticed by many assemblers. This step helps to maximize structural integrity and creates a tough barrier against corrosive materials. After the metallurgical process, the overall strength increases from 300-500/psi to 3600/psi.

A common misconception is that all fabricated galvanized steel has an interior coating. Most actually have a zinc rich paint applied during the manufacturing process. All pieces of our steel are welded and then hot dip galvanized before fabrication, and we build using open web trusses.

Calhoun specifically aerates the corners of our welds so the zinc can fully penetrate the steel during the hot dip galvanization process. Aerating the corners of the welds ensures our open web trusses are 100% protected from corrosion, inside and out, and

won't ever corrode or buckle from within. Additional strength like this allows the structure to withstand high winds, temperature fluctuations, and heavy rain or snow falls.



Steel Plates were attached to wood and submersed in swine manure. The plates were weighed at intervals to determine the amount of corrosion.



42' x 80' CC SERIES



52' x 112' CC SERIES



110' x 240' VP SERIES

APPLICATIONS

- Wedding Venue
- Indoor Dog Park
- Indoor Tennis Court
- Concert Facility
- Sports Training Facility
- Trade Show Pavilion

3D FINITE NONLINEAR ANALYSIS

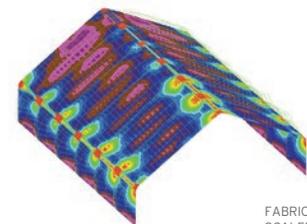
Calhoun is unique in that we have developed a proprietary engineering process that models the true shape of fabric under load. All Calhoun buildings are engineered using a site-specific 3D Non-Linear Finite Element Analysis which considers the snow,

rain, wind, and seismic conditions at the building site. This technique allows Calhoun to deliver the strongest building for your unique location.

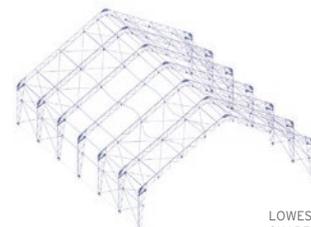
This process provides for a detailed and precise assessment of reaction loads that will in turn allow for an optimized foundation design.

Calhoun is the only manufacturer in the industry who includes the negative effects that fabric places on the strength and durability of the building, and then engineer the structure to ensure all snow, wind, and seismic conditions are exceeded.

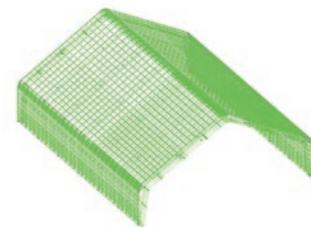
Our unique engineering procedures result in an optimal use of materials and ensures a reliable structure, going beyond industry standards.



FABRIC STRESSES AND SCALED DISPLACEMENT



LOWEST MODE BUCKLED SHAPE FOR USE IN STABILITY CHECKS



ENVELOPE LOADING D+CL+WIND PARALLEL+IP CONDITION



DESIGN | CUSTOM-ENGINEERING | SITE-SPECIFIC ANALYSIS |
MANUFACTURING | INSTALLATION | PROJECT MANAGEMENT |
REPAIRS & RECOVERS | ADD-ON'S & EXTENSIONS



65' x 100' HT-SERIES



82' x 200' HT-SERIES



65' x 140' VP-SERIES



52' x 112' CC-SERIES

NEED A RECOVER?

Whether you have an existing Calhoun fabric structure or another brand of fabric structure, Calhoun has the expertise, materials, and tools necessary to recover your fabric building.

No matter the level of damage, repair, building application, size, or brand, Calhoun offers full-service fabric structure recovers in-house, and installation through our extensive dealer network.

Call us today or click here for a free quote!

3702 Bruce Road 10, Tara, ON, Canada N0H 2N0 | 1-800-265-3994 | calhounsuperstructure.com

