



SAFEST UNDER THE SUN

20 YEARS IN THE BUSINESS



From **concept** to **implementation**, you can design and build confidently with **Custom Canopies** as your partner. Our products are designed by industry leading designers and engineers who possess the special expertise and experience demanded by architects and required by government standards.

www.customshadecanopies.com

COMPANY BIO

Custom Canopies is the leading manufacturer of quality shade canopies, sails and umbrellas for your commercial needs. We are dedicated to bringing our customers' visions to life through the use of our cutting-edge technology and engineer made materials, which we ship across the U.S. As a family run business, we pride ourselves on forging relationships with our customers in order to provide first class service to them. Our products are designed by industry leading designers and engineers who possess the special expertise and experience demanded by architects and required by government standards. Our professional installation crews work closely with our customers during construction to advise the perfect application of our product. From concept to implementation, you can design, build and install confidently with Custom Canopies as your partner.



TABLE OF CONTENTS

Hip Canopies	PG 4
Shade Sails	PG 5
DSA Hip Canopies	PG 6-7
Umbrellas	PG 8
Cantilever Canopies	PG 9
T-Bar Canopies	PG 10
Hexagonal Canopies	PG 11
Retractable Umbrellas	PG12
Custom Designed Canopies	PG13
Specifications and Colors	PG 14-18
Shade Structure Part Numbers	PG 19
Company Contact info	PG 20



HIP CANOPIES



Hip roof canopies are an economical shade solution designed to address a number of shade requirements. They can be a 4 post stand-alone unit or can be joined to have multiple canopies sharing common posts. They are also very durable and can be made to withstand almost any wind load. Hip canopies are easy to install and can be made custom sized to fit most areas.

Hip roof canopies have a steel roof frame with a HDPE fabric top

Hip roof canopies are perfect for:

- ✓ Playground shade and protection
- ✓ Park and picnic areas
- ✓ Daycare school shade
- ✓ Bleacher covers at Sports Parks
- ✓ Baseball Park dugouts
- ✓ Smoking areas
- ✓ Waiting areas
- ✓ Restaurant and Bar patio areas
- ✓ Car wash drying and polishing areas
- ✓ Pool decks and Water Parks



SHADE SAILS



With no limit to the combination, look and coverage, our shade sails can be engineered to comply with any city codes within the USA.

Shade sails offer both architecturally pleasing designs as well as extremely functional shade.

Popular with designers and architects because of their amazing versatility and eye catching look.

Custom made so you can cover most areas.

Shade sails are installed with turnbuckles and can be removed if they are installed in an environment that requires the sails to be removed.

Shade sails can be engineered to comply with any city codes within the USA. The fabric and posts are durable and will last as long as canopies or any other shade product.



DSA CANOPIES



CCI is a California based company making it simple and cost effective for inspection and fast turn-around times. The following sizes and combinations have been approved by the DSA under the 2016 California Building Code, Title 24, Part 2, CCR.

Using this Identification Stamp (PC#) of the Division of the State Architect applies to all size structures:

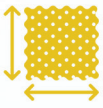
- | | |
|------------------|-------------|
| ✓ PC # 02-111934 | ✓ 20' x 15' |
| ✓ 20' X 10' | ✓ 25' x 25' |
| ✓ 20' X 20' | ✓ 30' x 25' |
| ✓ 30' x 20' | ✓ 40' x 20' |
| ✓ 36' x 18' | ✓ 40' x 30' |
| ✓ 30' x 30' | |

- | | |
|----------------|------------|
| ✓ PC#04-116995 | ✓ 40x30x16 |
|----------------|------------|

All combinations come with optional post (eave) heights of 9' up to 12'

NOTE: Plan dimensions are repeatable in one direction up to 6,000 square feet (for example, a 30'x30' can be repeated 3 times up to a 90'x30' with 8 posts). Complete canopy kits arrive ready to install and include; fabric top, steel framework, steel cable, hardware and footing cages.





FABRIC

Alnet “Extrablock” is extremely durable and is available in True Blue, Forest Green, Silver, Beige, Dark Gray and Terracotta. California State Fire Marshall Registration # F-94501.



STEEL

Gatorshield tubing has a triple layer of zinc coating for rust and corrosion resistance. The design criteria conform to the 2010 California Building Code. All steel members are powdercoated and shipped directly from the factory.



INSPECTION

The school district must hire a welding inspector to oversee the shop welding (in-plant inspection).



INSTALLATION

There must be an IOR (field inspector) to oversee the installation/sitework. The footings must be inspected before pouring concrete. The inspector must be DSA approved and will be engaged by the school district.



DESIGN

Basic Wind Speed = 85 mph Exposure C Live Load = 5 psf



WARRANTY

The steel frame carries a twenty-year warranty while the canopy has a ten-year pro-rated warranty.



UMBRELLAS



- ✓ There are three types of permanent umbrellas Custom Canopies offer; Cantilever umbrella, center post umbrella, and center post hypar umbrella.
- ✓ Cantilever umbrellas are a perfect shade solution when a post in the shaded area will not work.
- ✓ Center post umbrellas are a great economical shade solution, installation requires only one post at the center of the canopy.

Both umbrellas are permanent, engineer designed, rust and corrosion resistant and require no maintenance.



CANTILEVER STRUCTURES

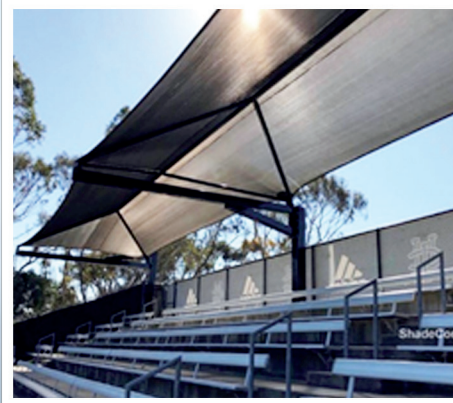


Cantilever shade structures are a perfect shade solution when trying to cut down on the amount of posts you are wanting in the area you are shading.

There are a few different types of cantilever shade structures Custom Canopies offer, but are not limited to; Full Cantilever, Semi Cantilever, Semi Cantilever Shade Sail, Flat Truss Cantilever, Flat Truss Cantilever Shade Sail, and Curved Cantilever.

Maximum projection from post:

- ✓ Full Cantilever structures: 20'
- ✓ Semi Cantilever structures: 24'
- ✓ Flat Truss Cantilever structures: 18'



T-BAR CANOPIES



T-Bar canopies have posts centered at both ends. This is a great solution when open space at the front and back of the shaded area is needed. T-Bar canopies maximum width is 20'.

There are two types of T-Bar structures Custom Canopies offer; T-Bar hip canopy and T-Bar shade sails.

T-Bar canopies are perfect for:

- | | | |
|-------------------------|------------------------------|---------------|
| ✓ Bus stops | ✓ Pool decks and Water Parks | ✓ Car washes |
| ✓ Bleacher cover | ✓ Waiting areas | ✓ Car parking |
| ✓ Baseball dugout cover | | |



HEXAGONAL CANOPIES



Hexagonal canopies have six posts and are ideal for more rounded spaces, giving better coverage than a square or rectangular canopy.

Perfect for :

- ✓ Round sand boxes and sand play areas
- ✓ Children's splash pools and splash pads
- ✓ Restaurant/bar outdoor patio covers
- ✓ Gazebos
- ✓ Any round space requiring shade



RETRACTABLE UMBRELLAS



Retractable center post inverted umbrella:

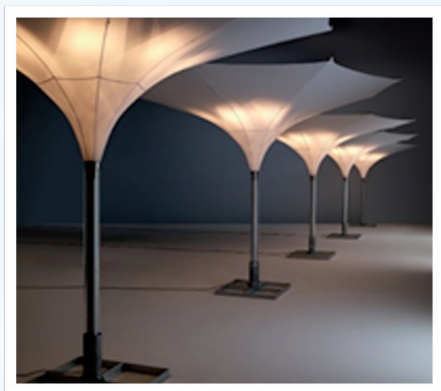
- ✓ Available in 13' x 13', 17' x 17' and 20', 20' square
- ✓ Also available in 13', 17' and 20' diameter round
- ✓ Fully retractable
- ✓ Surface mount, in-ground mount and portable base options
- ✓ Custom logos available

Retractable center post umbrella:

- ✓ Available in 7' x 7', 10' x 10', 10' x 13', 13' x 13', 13' x 17', 17' x 17' and 20' x 20' square and rectangular
- ✓ Also available in 8.2', 10', 13', 17' and 20' diameter round
- ✓ Fully retractable
- ✓ Surface mount, in-ground mount and portable base options
- ✓ Custom logos available

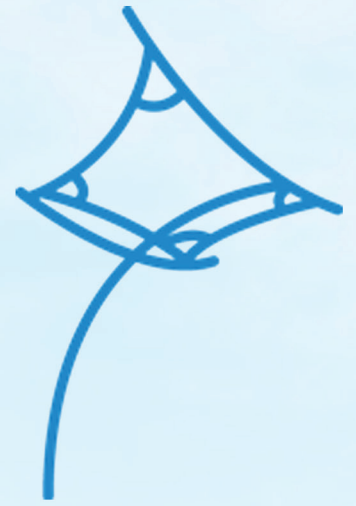
Retractable cantilever umbrella:

- ✓ Available in 10' x 10', 13' x 13' and 17' x 17'
- ✓ Fully retractable
- ✓ Surface mount, in-ground mount and portable base options
- ✓ Custom logos available



CUSTOM DESIGNED CANOPIES

As a fabric structure designer and manufacturer, we have the skills and tools to bring your vision to life. We offer a total package that includes designing the layout, 3D renderings, engineering and manufacturing.



SPECIFICATIONS AND COLORS

Canopy tops and steel frames come in a wide variety of colors. The fabrics are up to 98% ultraviolet light blocking and 90% shading. Fabrics will last 10 years or more. Temperature can be as much as 25 degrees cooler underneath our canopies and, with 20% ventilation, the fabrics breath. Fabrics will not rip, fray, sag or stretch.

POWDERCOAT COLORS



STANDARD SHADE SAIL & SHADE STRUCTURE SPECIFICATIONS

Quality Assurance

All shade structures and shade sails shall be installed and rigged by a trained competent person. All equipment shall be free of sharp edges and corners, or extremely rough surfaces. All materials shall be new and conform to all standards as specified. The steel frame and concrete foundations for the shade structures or shade sails shall be designed by an engineer licensed in the state of installation. The steel frames and related concrete foundations for the shade structure to be designed in conformance with the latest version IBC or per local requirement.

Wind Design Speed: 80 to 130 miles per hour or per local requirement.

Basic live load: 5 psf

Exposure: C

Coatings

Non-galvanized steel

Where size of structure or determined loads require larger structural steel members or greater than 7 gauge thickness, carbon steel may be substituted. Cleaning and coating of carbon steel shall conform to the following:

- ✓ Degrease with mild alkaline cleaner at 140 degrees.
- ✓ Iron phosphate rinse to create a conversion layer on the steel.
- ✓ Prebake in oven at 350-400 degrees to burn off additional contaminants.
- ✓ Powdercoat with a TGIC polyester powder top coat.
- ✓ Min. of 2.5 millimeters thick.

Pre-galvanized steel

Steel already has a triple layer of zinc protection with a polymer clear coat, which acts as a primer.

- ✓ Clean with a mild alkaline solution.
- ✓ Prebake in oven at 350-400 degrees to burn off additional contaminants.
- ✓ Powdercoat with a TGIC polyester powder top coat.
- ✓ Min. of 2.5 millimeters thick.

MATERIALS

Steel:

- ✓ All carbon structural steel shall be ASTM A-36, except steel pipe columns, which shall be ASTM A-53, grade B, unless otherwise noted.
- ✓ All welds are performed using E70XX electrodes or gas metal arc welding using ER 70S3 wire.
- ✓ All fillet welds shall be a minimum of threesixteenths (3/16) inch unless otherwise noted.

Tensioning cable & hardware:

- ✓ Shall conform to FED. Spec. RR-W-410
- ✓ Steel cable is determined based on calculated engineering load. For high and medium loads, ¼” (minimal) galvanized 7x19 cable is to be used. For heavy loads, 5/16 - 3/8” (minimal) galvanized 7x19 cable is to be used.
- ✓ Cable connectors and fabric hardware shall be stainless steel or galvanized.

Thread:

- ✓ Gortex Tenara thread
- ✓ Shall be high density, low shrinkage, abrasion resistant, UV radiation immune, unaffected by cleaning agents, acid rain, mildew, chlorine, saltwater, & industrial pollutants.
- ✓ Should be warranted for a period of ten (10) years.

Shade structure fabric shall meet the following list of requirements:

- ✓ High-density polyethylene to block out 90% of ultra violet rays
- ✓ Monofilament and tape construction giving a stable material.
- ✓ Rachell knitted to ensure material will not unravel if cut.

Strip tensile Strength:	
Warp lb/inch	278 lbs Per ASTM D5034
Weft lb/inch	340 lbs Per ASTM D5034
Fabric Mass Minimum: 9.6 oz / sq. yd.	
Fading: Minimum fading allowed after 5 years.	
Temperature stability:	Minimum temp. -13 ° F Maximum temp. 176° F
Fire rating:	CAFM Title 19 CFSM, Section 1237 NFPA-701 #2
Weatherability: ASTM G53	
All corners shall be strengthened with 13-16 oz non-tear vinyl material.	

INSTALLATION:

Install shade structures in a timely manner and coordinate with the work of other trades. Securely fasten all parts to be attached. Make sure all parts interact freely and smoothly without binding, sticking or excessive clearance. Install each shade structure and hardware item in compliance with the manufacturers' instructions and recommendations.

WARRANTY:

The structural integrity of the steel shall be warranted for twenty (20) years. The fabric and sewn composite shade covering shall have a limited warranty for 10 years. The product, when used in its designed capacity, must be guaranteed for a period of 10 years from original installation against:

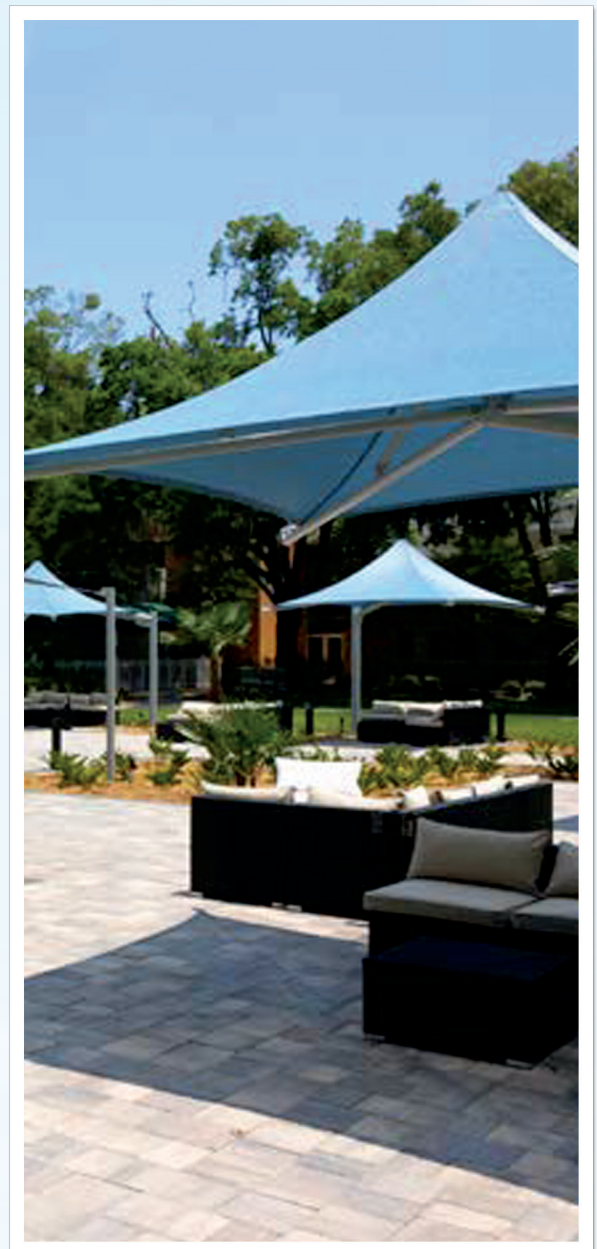
- ✓ The steel frame corroding or deteriorating under normal conditions.
- ✓ The steel frame from deteriorating from faulty workmanship.
- ✓ Inappropriate design of supporting structure. All fabric tops shall be warranted for winds and gusts up to engineering requirement. The fabric warranty is void if winds or gusts are in excess of engineering.
- ✓ Excessive loss of color in the fabric under normal exposure conditions, including sunlight, rot and normal atmospheric chemicals that may render it unserviceable.
- ✓ Any wearing or blowouts due to wind caused by improper installation or design. Under extreme wind conditions that exceed our design capacity, it is advisable to remove the shade fabric from the structure.
- ✓ Structures are not warranted for damages caused by snowfall, cyclones, typhoons, or other acts of God. For canopies not engineered for snow loads, the fabric must be removed during months when snow or heavy wind and storms are expected.

The contractor reserves the right to repair or replace any item covered by the warranty.

Shade structures located in areas where they may be subject to damage during construction by handling, cleaning, etc. (i.e. painting, cleaning of concrete block) shall be protected and or removed from the location until the hazardous condition is terminated.

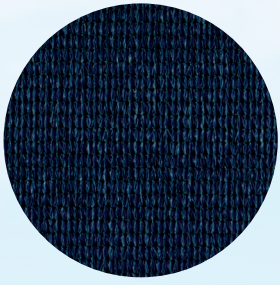
MAINTENANCE:

Canopies and shade sails must be inspected and maintenance must be done at least once a year. Refer to the maintenance book supplied.

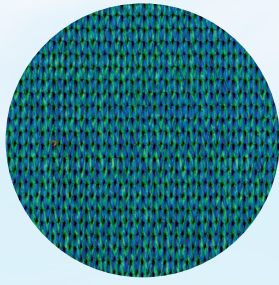


FABRIC COLORS

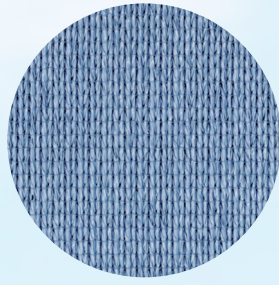
Commercial95



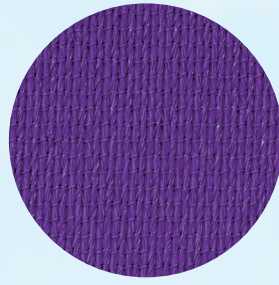
Navy Blue



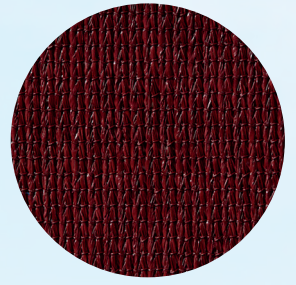
Turquoise



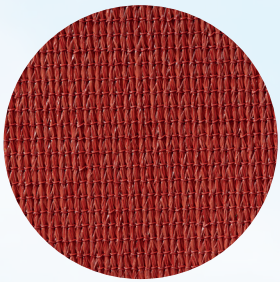
Sky blue



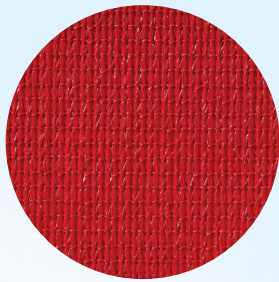
Royal Purple



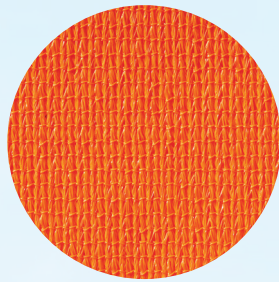
Deep Ochre



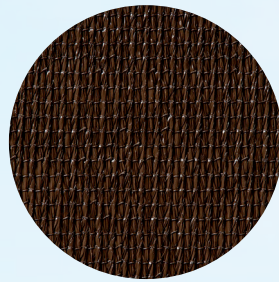
Cayenne



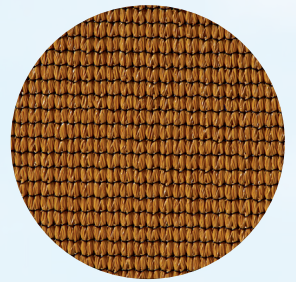
Cherry Red



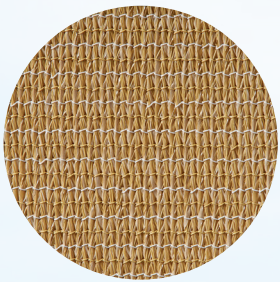
Orange



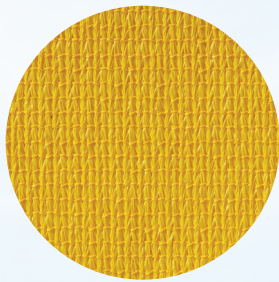
Brown



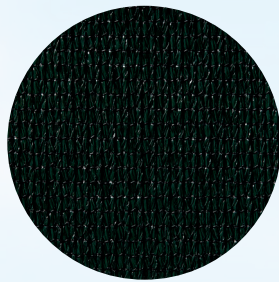
Cedar



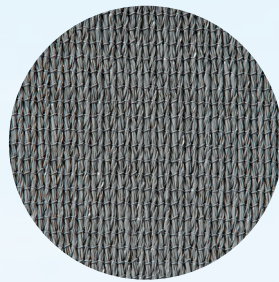
Desert Sand



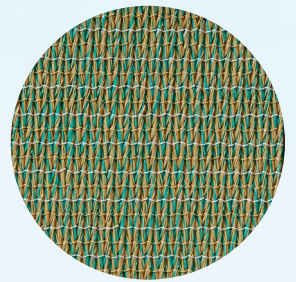
Yellow



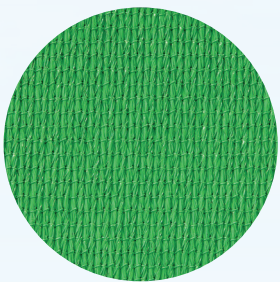
Brunswick Green



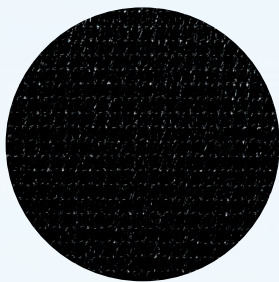
Steel Grey



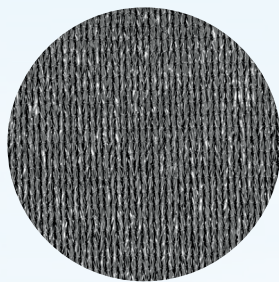
Steel Rivergum



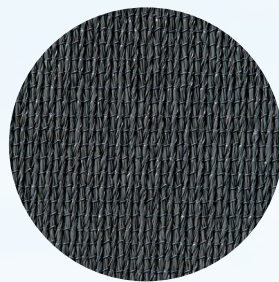
Bright Green



Black



Charcoal



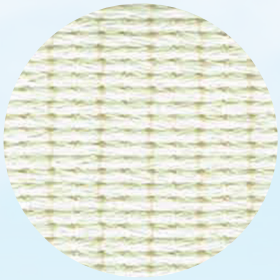
Gun Metal



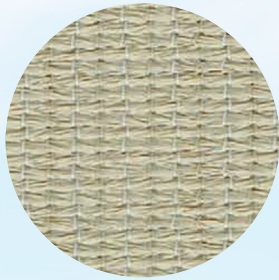
Natural

FABRIC COLORS

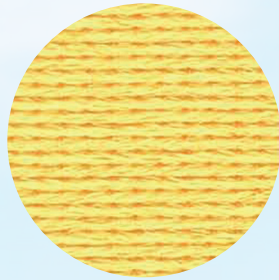
ALNET



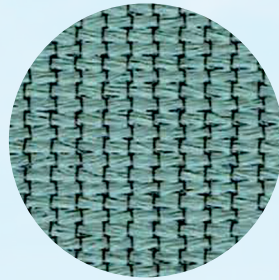
Cream



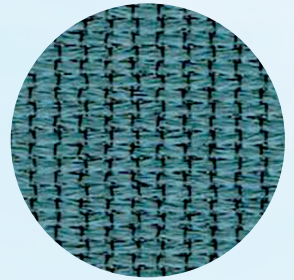
Beige



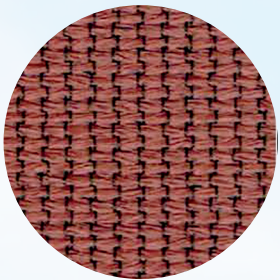
Yellow



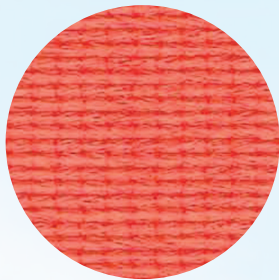
Mint Green



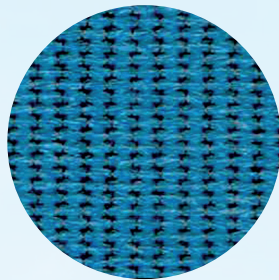
Dove Blue



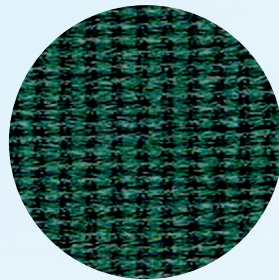
Oxide Red



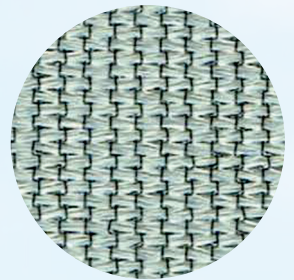
Red



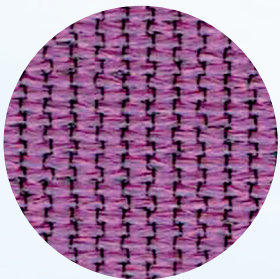
True Blue



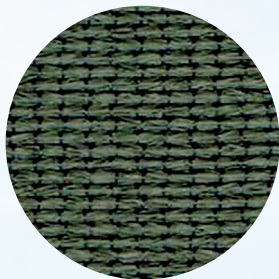
Forest Green



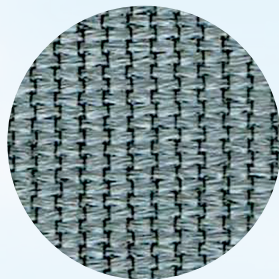
Pearl Onyx



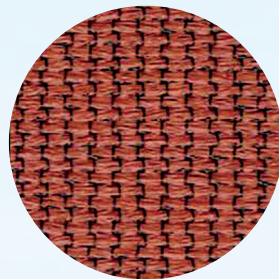
Purple



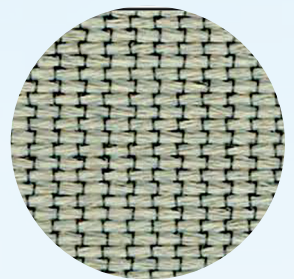
Olive



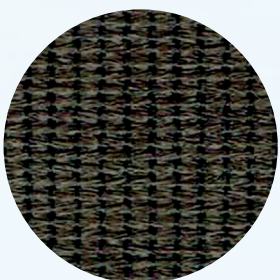
Silver



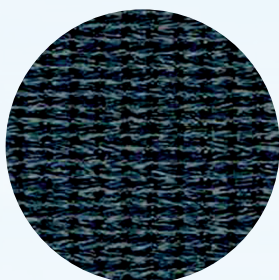
Sunblaze



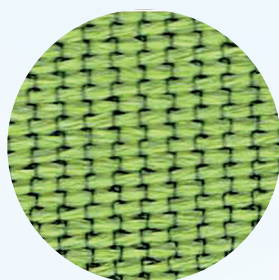
Latte



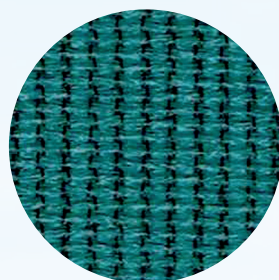
Brown



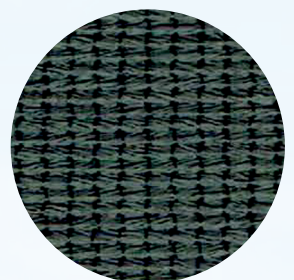
Navy Blue



Lime



Bottle Green



Charcoal

CANOPY PART NUMBERS:

*When ordering a canopy with a part number always have the part number and size. Example would be; HPC202010 (Hip Canopy 20'width x 20'length x10'height). Any custom designed canopies will not have a part number and will be given one at the time of design.

- ✓ Hip Canopy (HPC + Size)
- ✓ DSA Hip Canopy (DSAHPC + Size)
- ✓ Shade Sail (SS + Size)
- ✓ Center Post Umbrella (CPU +Size)
- ✓ Cantilever Umbrella (CU + Size)
- ✓ Shade Sail Cantilever Umbrella (SSCU + Size)
- ✓ Full Cantilever (FC + Size)
- ✓ Semi Cantilever (SC + Size)
- ✓ Semi Cantilever Shade Sail (SCSS + Size)
- ✓ Flat Truss Cantilever (FTC + Size)
- ✓ Flat Truss Cantilever Shade Sail (FTCSS + Size)
- ✓ Curved Cantilever (CC + Size)
- ✓ T-Bar Hip (TBH + Size)
- ✓ T-Bar Shade Sail (TBSS + Size)



CUSTOM CANOPIES INC SHADE STRUCTURES ARE DESIGNED AND ENGINEERED FOR, BUT NOT LIMITED TO:

- ✓ Playground shade and protection
- ✓ Park and picnic areas
- ✓ Daycare school shade
- ✓ Bleacher covers at sports parks
- ✓ Baseball park dugouts
- ✓ Waiting areas
- ✓ Restaurant and Bar patio areas
- ✓ Car wash drying and polishing areas
- ✓ Pool decks and Water parks
- ✓ Any application where budget dictates an economical solution
- ✓ Round sand boxes and sand play areas
- ✓ Children's splash pools and splash pads
- ✓ Restaurant/bar outdoor patio covers
- ✓ Gazebos
- ✓ Any round space requiring shade
- ✓ Theme or Amusement parks
- ✓ Car lots
- ✓ Any odd shaped space requiring shade cover



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