

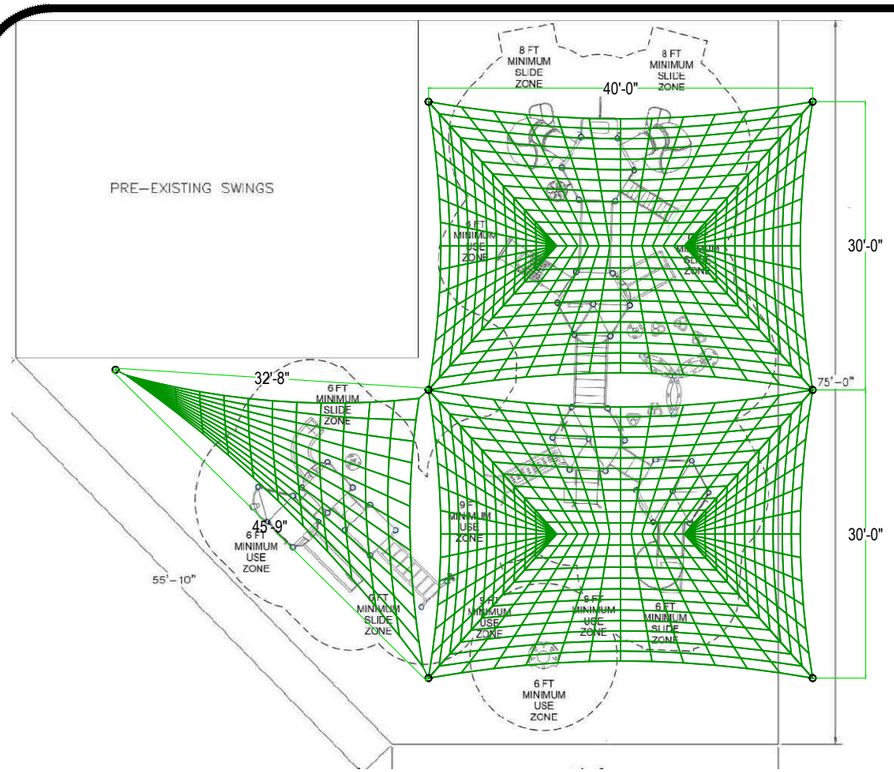
CUSTOM CANOPIES INC

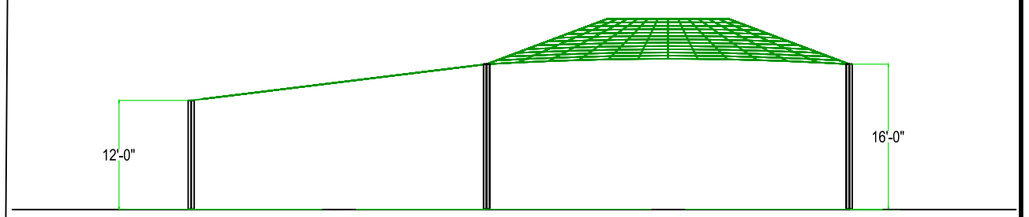
FABRIC STRUCTURE DESIGNER AND MANUFACTURER

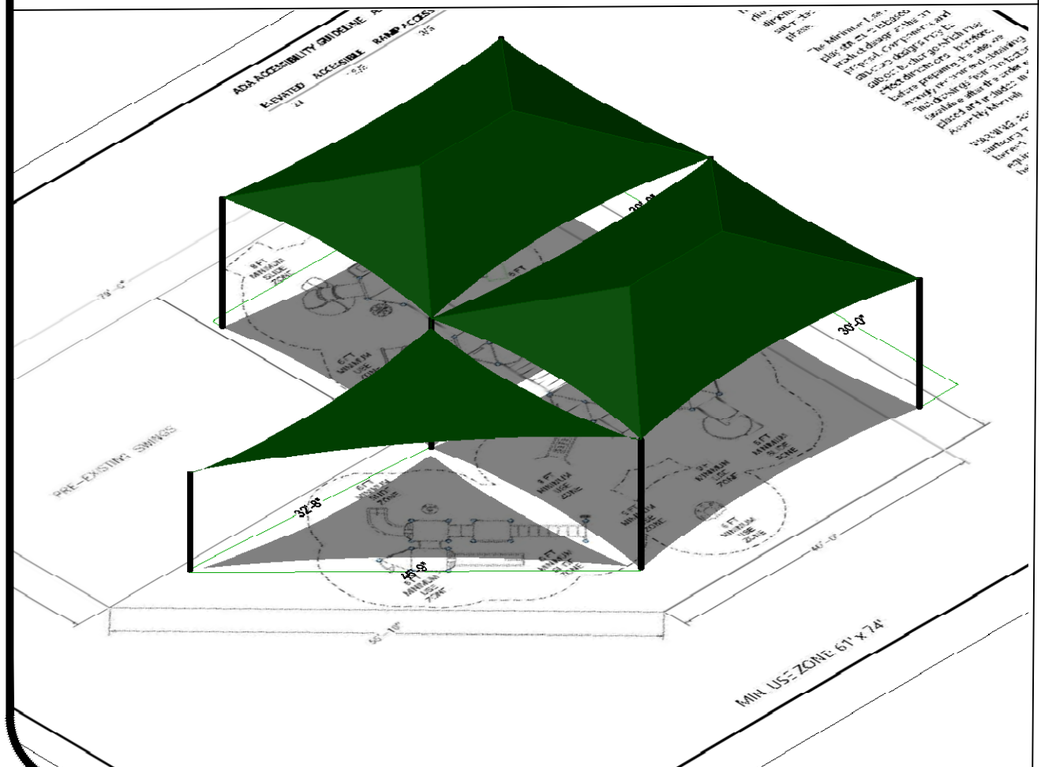


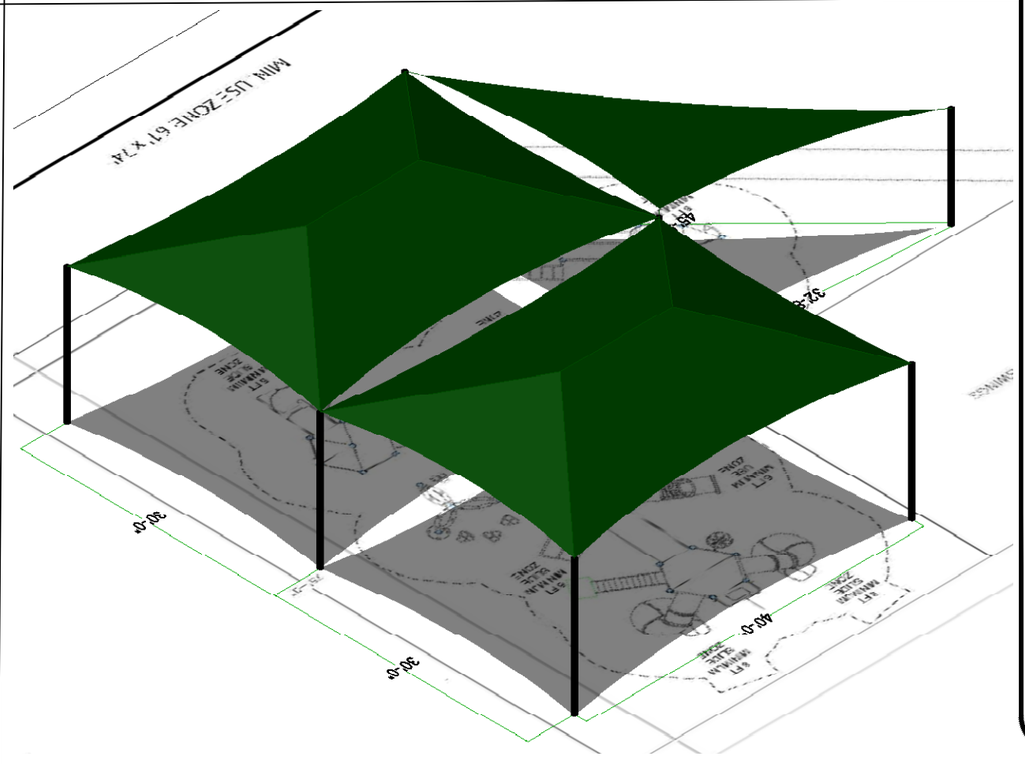












General Notes

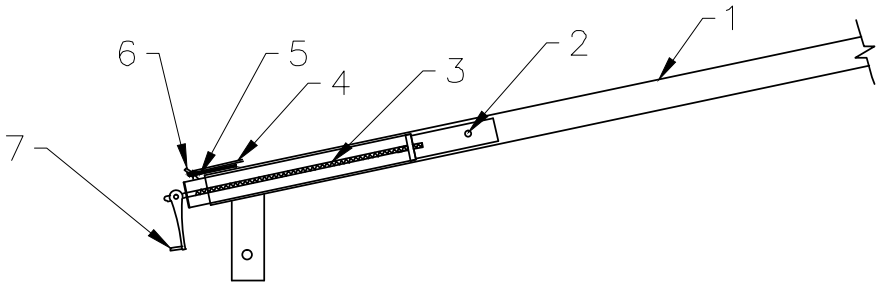
No.	Revision/Issue	Date

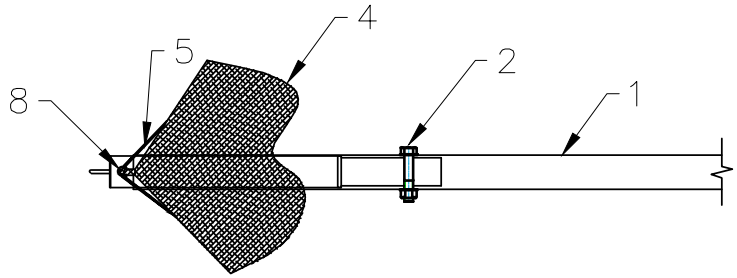
Firm Name and Address

Custom Canopies inc.

Project Name and Address

Project	Sheet
Date	S1-1
Scale NTS	





1 Roof rafter
2 Bolt typ.
3 Threaded rod
4 HDPE fabric
5 7X19 Aircraft cable
6 Pin for fabric/cable attachment
7 Removable wind up handle
8 D–ring on fabric





General Notes

INTERNAL QUICK RELEASE SYSTEM

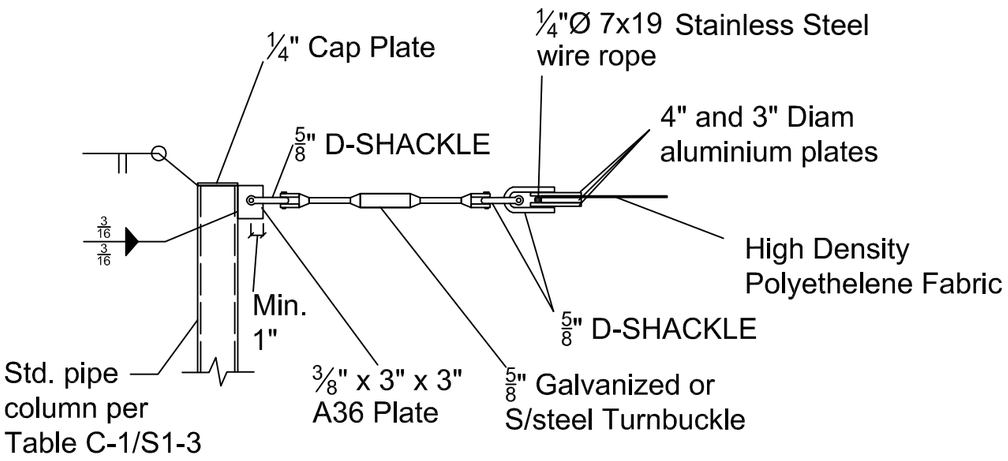
No.	Revision/Issue	Date

Firm Name and Address

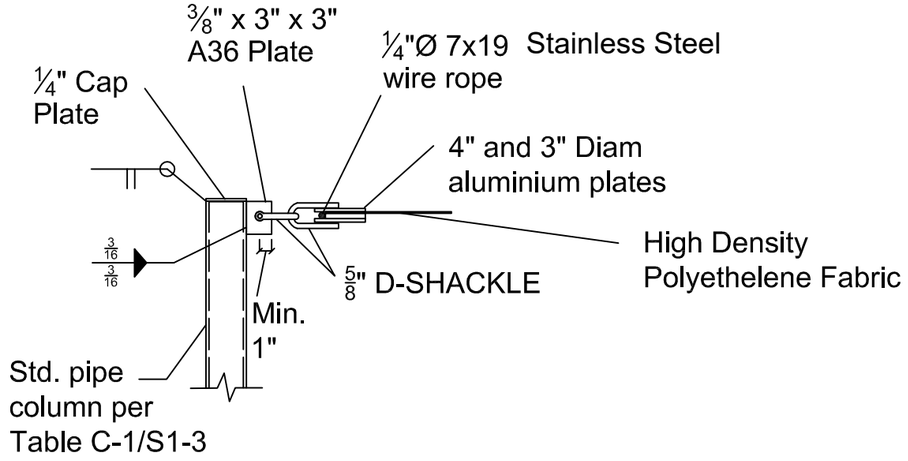
CUSTOM
CANOPIES
INC

Project Name and Address

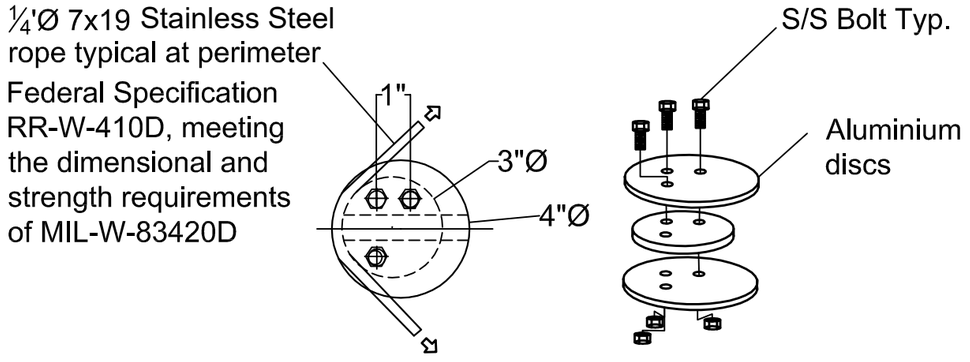
Project	Sheet
Date	S1-4
Scale NTS	



Detail A With turnbuckle



Detail A No turnbuckle



Detail B
Cable and fabric clamp detail

General Notes

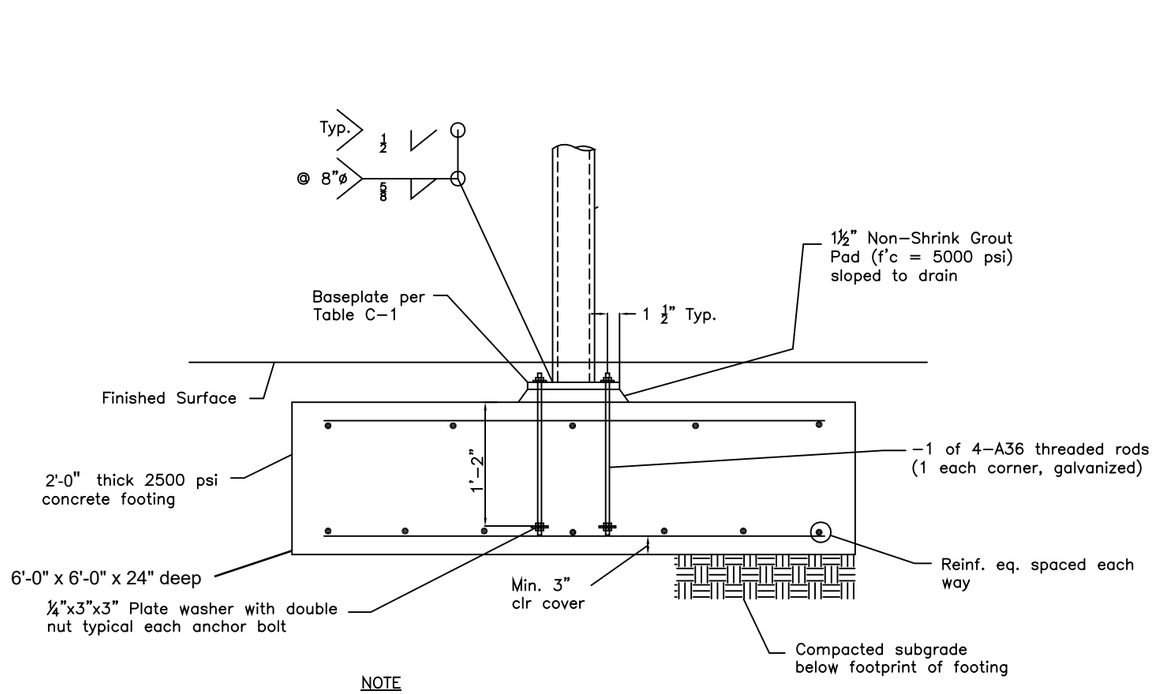
No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Project	Sheet
Date	S1-2
Scale NTS	

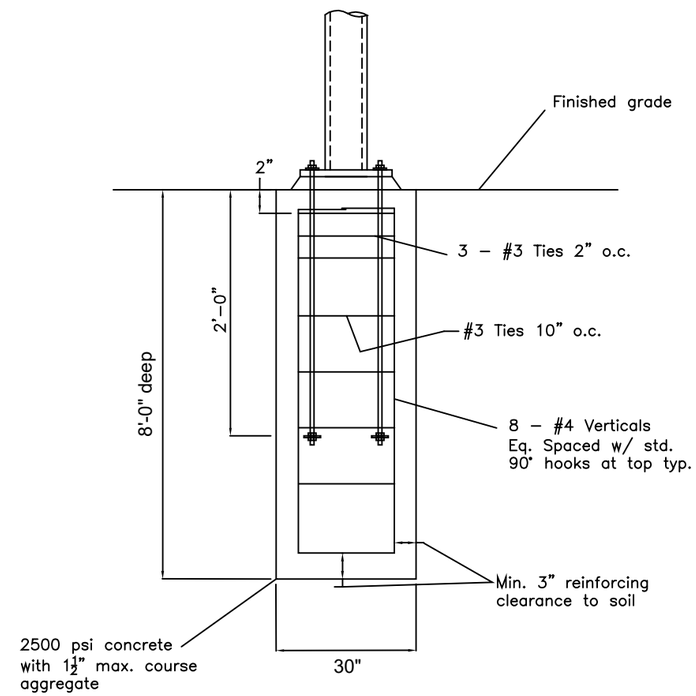
NOT FOR CONSTRUCTION



NOTE

– Baseplate bolt hole ø shall not exceed anchor bolt ø + ⅛"
–Provide std. hardened washer for each anchor bolt @ baseplate
–Column baseplate and anchor bolts to be encased in 2500 concrete w/ 3" cover

Detail D – Spread Footing Option



Detail D – Deep Foundation Option

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Project	Sheet
Date	S1–3
Scale NTS	

Custom Canopies Intl. Inc.

"SAFEST UNDER THE SUN"

POWDERCOAT COLORS



EXTRABLOCK



Designed for strength and durability, Alnet's Extrablock shadecloth protects against all of nature's extremes. It meets the highest standards and is knitted to be dimensionally stable for easy fabrication. Extrablock also comes in 16 California Fire Marshall approved colors and is backed by a 10-year warranty to demonstrate our dedication to quality, durability and safety.

CERTIFICATIONS

REGISTERED STATE OF CALIFORNIA STATE FIRE MARSHAL FLAME RETARDANT F - 94501

NFPA 701

ASTM E84 TESTING

UP TO 98% UVR PROTECTION

100% RECYCLABLE

SABS APPROVED

verified BEE rating

ALNET is the leading innovator in synthetic textile and netting material production for the world's ***architectural, agricultural, aquacultural*** and ***industrial industries.***

For more information, please contact **protect@AlnetAmericas.com** or visit us at **www.AlnetAmericas.com**

EXTRABLOCK

Properties	Mass	Thickness	Fabric Width	Strip Tensile		Elongation at Break		Tearing Strength		Burst Strength	Burst Strength	Temp. Stability
Test Method	ASTM 3776	ASTM 1777	ASTM 3774	ASTM D 5034		ASTM D 4595-87		ASTM D 2261		ASTM 3787 Ball	ASTM 3786 Mullen	
				Warp	Weft	Warp	Weft	Warp	Weft			
US	9.6 oz/yd	50.4 mil	118 in.	278 lbf	340 lbf	71%	74%	33 lbs	36 lbs	363 lb	460 psi	-13°F/+176°F
Metric	325 gsm	1.28 mm	3 m	1236 N	1512 N	71%	74%	147 N	160 N	1615 N	3172 kPa	-25°C/+80°C



Colors	UPF	UVR	Shade Factor	Fire Retardancy	Fire Resistance
Cream	13	92%	74%	Yes	ASTM E-84
Beige	33	97%	87%	Yes	ASTM E-84
True Blue	14	93%	89%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Forest Green	24	96%	94%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Silver	19	95%	93%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Sunblaze	14	94%	91%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Latte	18	95%	90%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Bottle Green	16	94%	91%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Charcoal	20	96%	94%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Midnight	33	98%	98%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Mint Green	18	95%	93%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Dove Blue	13	93%	90%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Oxide Red	14	93%	91%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Pearl Onyx	16	94%	86%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Purple	16	94%	86%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Olive	26	97%	96%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Yellow	16	94%	76%	Yes	ASTM E-84
Red	29	97%	86%	Yes	ASTM E-84
Brown	19	95%	93%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2
Navy Blue	23	96%	96%	Yes	CA 1237.1 Title 19 - CSFM NFPA-701 #2

www.AlnetAmericas.com

STANDARD SHADE SAIL & SHADE STRUCTURE SPECIFICATIONS

Quality Assurance

All shade structures & 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 three-sixteenths (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) S/Steel 7x19 cable is to be used. For heavy loads, 5/16 - 3/8" (minimal) S/Steel 7x19 cable is to be used.
- Cable connectors and fabric hardware shall be stainless steel or galvanized.

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.

Thread:

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

Custom Canopies Intl. Inc.

"SAFEST UNDER THE SUN"

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.