



**Manufactured exclusively by
Oasis Shades LLC
A division of**

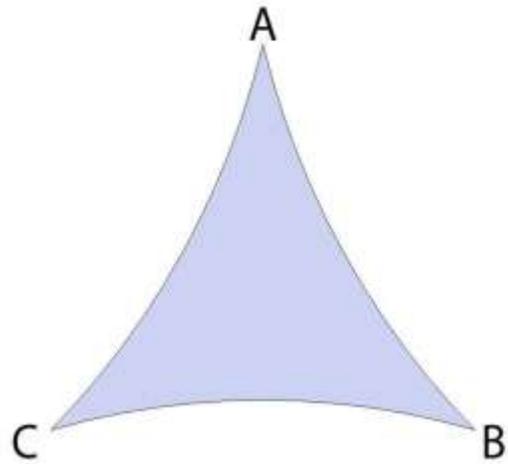
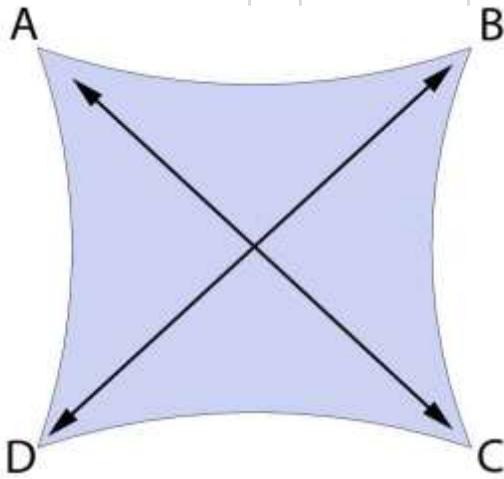


**Ordering & Installation Manual
For Tension Shades**

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DIMENSIONS OF SHADE



Feet / inches

A to B _____
 B to C _____
 C to D _____
 D to A _____

Feet / inches

A to B _____
 B to C _____
 C to D _____

Cabled perimeter? Yes _____ No _____

Identify Height Above Ground for all Attachment Points

A _____
 B _____
 C _____
 D _____

You MUST identify on the diagram above where you want the cable adjustment flap located for easy access.

ORDER CANNOT BE PROCESSED UNLESS ALL BLANKS ARE FILLED IN LEGIBLY.

1. INTRODUCTION

Fabric shades of this type are commonly known as tension shades, however they are also referred to as suspension shades, sail shades, sun shades, etc. There are an endless number of applications for this type shade with two basic methods of suspension: shade material suspended from structure-to-post or post-to-post systems. Some installations can also be made portable and temporary by using in-ground post sleeves/receivers. Shades are offered as ready-made or custom. With the ready-made, you are limited to installing the shade as fits its dimensions. Custom shades can be ordered to fit whatever area for which you can provide appropriate attachment points.

There are a great many applications, both private and commercial, for the free-standing variety, such as listed below. In extreme heat, they can also be used to shade pools for extended periods to actually reduce the water temperature if needed, as in the desert southwest where the sun can easily heat pool water to uncomfortable temperatures. Particularly good prospects are golf courses offering golfers shelter from rain, hail and lightning. Also, outdoor golf cart storage, refreshment areas, and spectator galleries on tournament courses. Shades with cabled perimeters have an inherent degree of lightning protection and can incorporate UL-listed lightning protection for the maximum assurance.

2. FACTS & BENEFITS

Tension Shades are sun-blocking fabric shades suspended from posts, structures, or any combination. The posts can be semi-permanent or portable with in-ground receivers allowing easy removal. There are many fabric colors in standard or waterproof materials. Whether contractor-installed or a do-it-yourself project, consideration must be given as to whether permitting is required by local building codes. Additionally, home owner associations may require an application process to be completed prior to starting.

Benefits of Tension Shades:

- Reduces harmful UV exposure as much as 98%
- Eliminates sunburns and reduces skin cancer risk
- Reduces ambient temperatures as much as 35 degrees
- Creates a virtual oasis extending the home's living area
- Eliminates reflective glare
- A fraction of the cost of a hard structure
- Infinitely more effective than umbrellas
- Will not mold or mildew
- Virtually maintenance free
- Protects people and property from sun damage
- Architecturally stylish and aesthetically pleasing
- Reduces pool temperatures in extremely hot climates
- Inherent lightning protection with optional UL provision available
- Increases property value

Residential uses include:

- Pool or patio areas
- Backyard play areas
- Barbeques areas
- Carports and driveways

- Pet shelters
- Shelters for boats, motorhomes, etc.

Some commercial uses:

- Schools, daycare/Pre-K centers
- Carwashes
- Parks and playgrounds
- Vehicle dealerships
- Parking lots and top floors of parking garages
- Amusement parks and their waiting lines
- Outdoor eating areas or work stations
- Golfers and spectators’ shelters
- Outdoor golf cart storage
- Bus stops
- Horse and livestock shelters

3. SHADE TENSION BUYING GUIDE

We offer two alternatives:

- Install attachment points to accommodate our ready-made shades
- Install attachment points first, measure, and then have a custom shade manufactured to fit

4. SUGGESTED DESIGN CRITERIA

Sizes and Shapes:

Triangular shades are available up to a maximum 30 foot length on any side and up to 36 foot per side on square or rectangle shades. Larger shades with lengths or widths up to 46 feet require cabled perimeters.

Posts:

The options are aluminum, steel, or wood with sizes dependent on the shade’s square footage, number of shades being attached, and the height above ground the shade will be suspended.

Size	PT Wood	Aluminum	Steel	Wood / Aluminum Sleeve
Up to 150 sq. ft.	6”x6”	4”x4”x.125”	3” Rnd Sch 40	4”x4” both
150 – 225 sq. ft.	6”x6”	N/A	4” Rnd Sch 40	N/A
225 – 600 sq. ft.	6”x6”	N/A	4” Rnd Sch 40	N/A
600 – 1300 sq. ft.	N/A	N/A	6” Rnd Sch 40	N/A
1300 sq. ft. and up	N/A	N/A	8” Rnd Sch 40	N/A

Post Attachments, depending on post and shade size:

Aluminum posts: eyebolts

Steel posts: eyebolts, light or heavy-duty ratchet tensioners

Wood posts: eyebolts, eye screws, light or heavy-duty ratchet tensioners

Structure Attachments, depending on shade square footage:

- Up to 200 sq. ft.: 5/16" eyebolt or eye screw, or small pad eye mounting plate
- 200 to 400 sq. ft.: 5/16" eyebolt or eye screw, or medium pad eye mounting plate
- 400 sq. ft. - plus: 3/8" eyebolt or eye screw, or large pad eye mounting plate

Shade Tensioners:

Smaller shades (up to 300 sq. ft.) can be tensioned with a ratchet strap and affixed directly or with a turnbuckle. Shades up to 600 sq. ft. can be tensioned with a 1-1/2" to 2" ratcheting mechanism which may be left in place. Larger shades are tensioned with heavy-duty ratchet tensioners

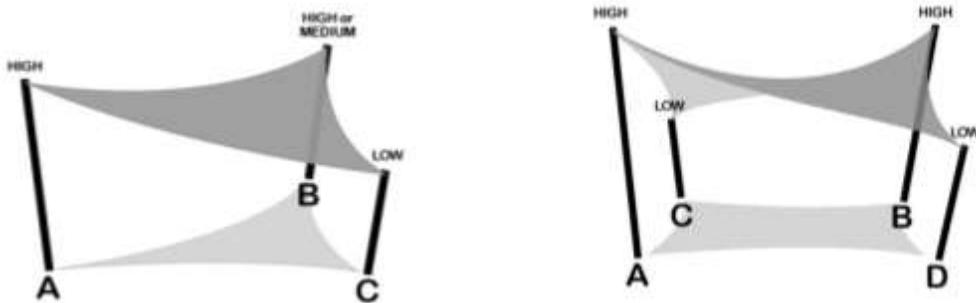
Cablings:

Cablings is generally necessary for shades over 600 sq. ft. This consists of a steel cable running through the perimeter of all sides of the shade.

Slant / warp:

Shades must have adequate slant in order to prevent rain water pooling.
Standard fabric: Minimum of 1-1/2 foot drop required for each 10 feet in length or width.
Waterproof fabric: Minimum of 2 foot drop required for each 10 feet in length or width.

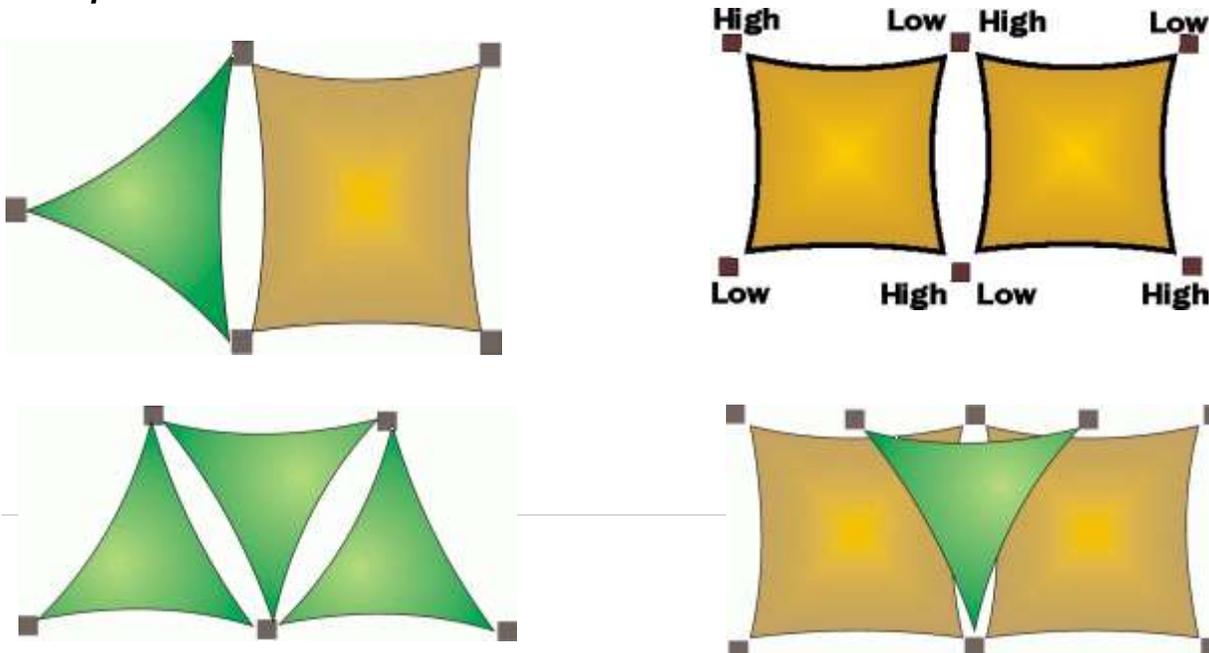
Examples:

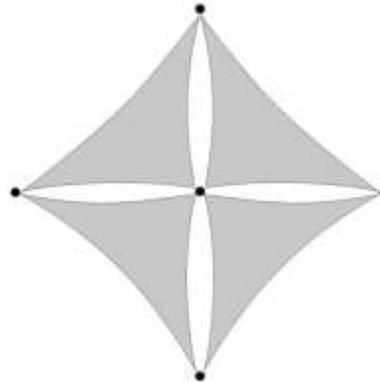
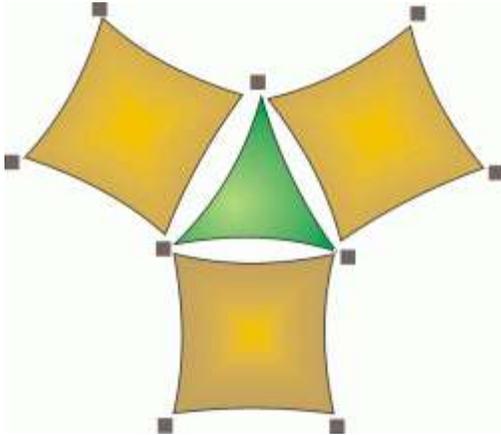
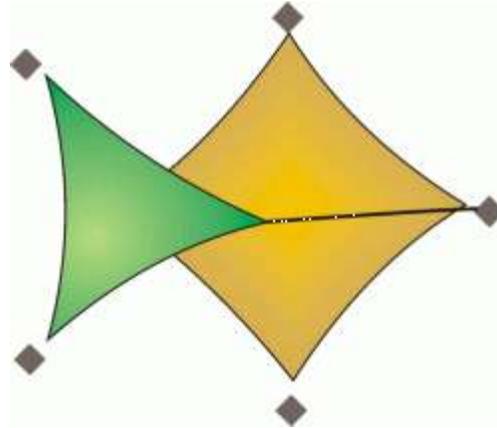
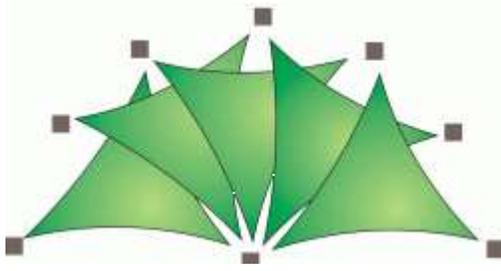


Multiple shade designs:

In designs where shades will overlap, it is necessary to provide a minimum distance of 8-10" between portions where the shades intersect to avoid abrasion in windy conditions. For multiple shade attachment points, larger size posts and pad eye mounting plates are necessary.

Examples:





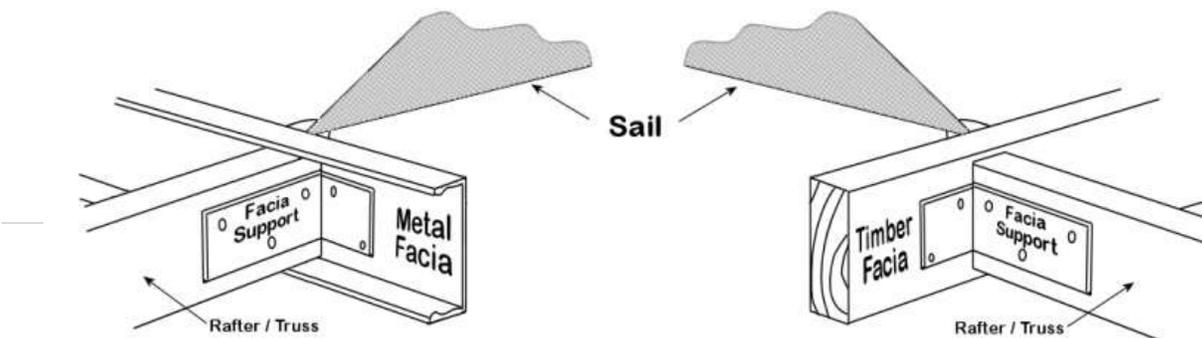
Weather conditions or limitations:

Shades should be removed when serious wind conditions threaten. If installed where ice or snow loads are a consideration, the shades should be removed seasonably to avoid possible damage to the shade or to mounting structure.

5. MEASURING

As the adage goes, measure twice so we only cut once.

When attaching to a structure, determine these points before post location(s). In the case of structure attachments, ensure that the chosen location is structurally sound. If unsure, have it evaluated by a builder, engineer, or other such professional. Reinforcement of the area may be necessary, i.e. larger bracket with or without epoxy, backing plate or fascia support. Fascia supports are used for connecting overhanging rafters or trusses to fascia for a considerably stronger connection. Fascia supports are readily available from most any hardware or building supply company.



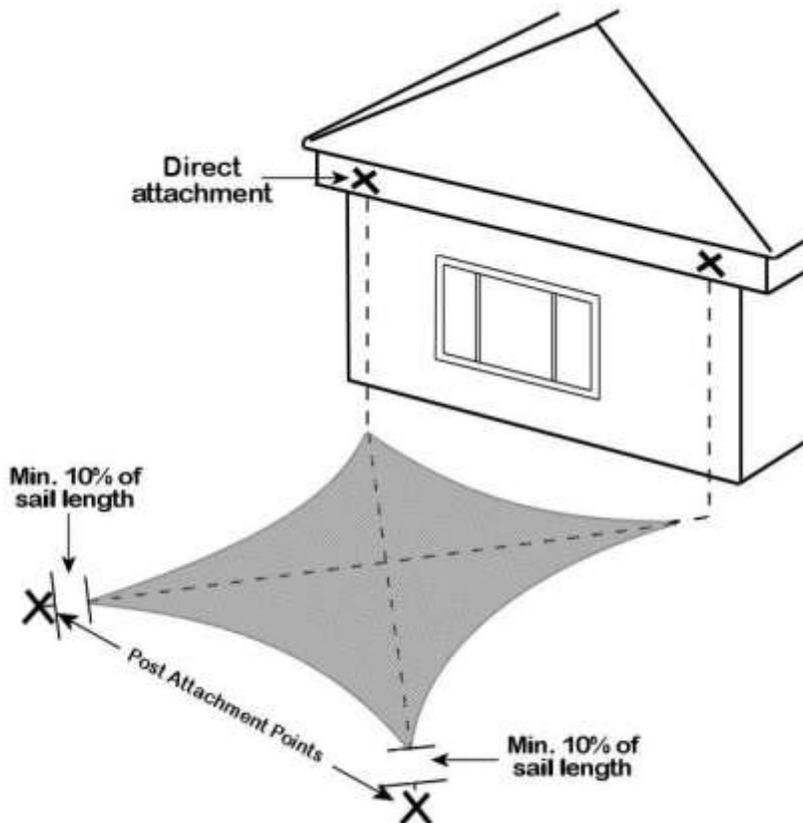
As to post location (either for a two or four post structure), inspect the proposed areas for suitability for digging, as well as type and condition of the soil. Unless certain of the obstacles that may be below ground at your proposed post location, digging will require underground utility location service from your local “before you dig” agency. This is a free service that generally takes one or two days to have performed and is well worth the peace of mind. You will want to determine what equipment will be required to dig the desired size and depth of hole.

Other considerations for placement:

- Size of the shades
- Strength of existing structures intended to be anchor points
- Location of obstacles, such as barbecues etc.
- Sun angles at various times of days and seasons
- High wind areas
- Above and below ground utilities.

Height considerations will depend on your specific application, such as affixing to an existing structure, clearance necessary for objects such as playground equipment below the shade, and to allow adequate warp or angle for drainage.

Example: Direct attachment (to structure) and distance between D-ring of shade and post to allow for tensioning. (Typically, 10% of the shade’s length.)



On custom shades with a cabled perimeter, the cable resides in a pocket on the outer edge of the shade. To permit adjustment of the cable, there is a 2 to 3 foot velcro'ed fabric flap for accessibility. When ordering a custom shade with a cabled perimeter, keep in mind that the shade's cable adjustment flap must be at one of the lowest points for best accessibility. When ordering, identify the lowest point on the shade where you will want the adjustment flap located.

Determining post length:

Once the desired shade height and clearances have been established, the typical installation will require 3-1/2 to 4-1/2 foot foundation depth. In sandy soil, you should allow for approximately 1/3rd of the post to be buried belowground. So if you want an 8 foot above-ground post, you bury 4 feet of a 12 foot post. If your soil conditions are not ideal or if your shade is larger than 650 sq. ft., then plan on burying the post 6 to 12 inches deeper. But, more importantly, a larger diameter foundation with more concrete may be necessary.

Determining triangle square footage: The formula is:

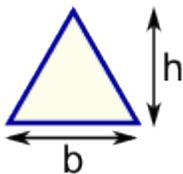
AREA = ONE HALF times BASE times HEIGHT

The BASE is the length of the bottom line.

The HEIGHT is the 'straight up' distance from the (horizontal) bottom line to the tip.

And ONE HALF is, well, one half.

So if your triangle had a bottom line of length 5 ft, and a height of 7 ft, the area would be 1/2 times 5 times 7, that is, 35/2 or 17.5 square feet.



Triangle

$$\text{Area} = \frac{1}{2}b \times h$$

b = base

h = vertical height

6. INSTALLATION

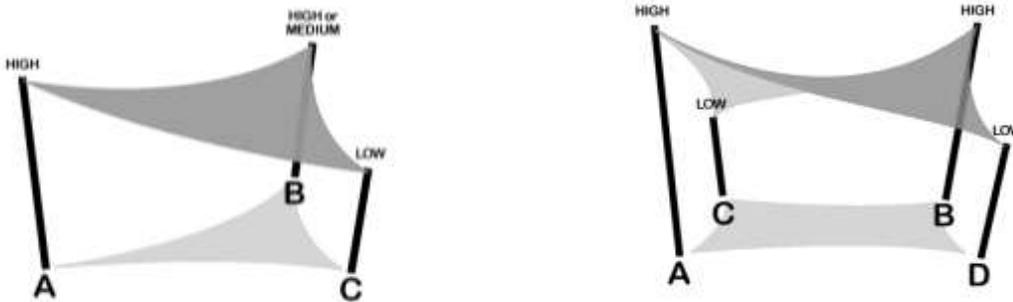
Typical tools and equipment needed for residential and smaller commercial installations may include:

- Spade shovel
- Post hole digger
- Bubble level
- Angle indicator
- Garden hose with nozzle
- Wheelbarrow

Post Installation:

Size	PT Wood	Aluminum	Steel
Up to 150 sq. ft.	6"x6"	4"x4"x .125"	3" Rnd Sch 40
150 – 225 sq. ft.	6"x6"	N/A	4" Rnd Sch 40
225 – 600 sq. ft.	6"x6"	N/A	4" Rnd Sch 40
600 – 1300 sq. ft.	N/A	N/A	6" Rnd Sch 40
1300 sq. ft. and up	N/A	N/A	8" Rnd Sch 40

Structure Installation:



Whether a contractor or do-it-yourself installation, code and/or home owner association compliance may be required. Once you have identified the location for your shade(s) it is important to determine the most suitable attachment points for the shade's corners. Some of these attachment points could already exist (e.g. pergola, sundeck, large tree, fence post or fascia). This stage of installation is critical. You should ensure all attachment points are structurally sound, and if unsure, obtain secondary advice from a builder or engineer. A suggested lowest attachment height, with consideration to walk traffic, is 6.5 feet. In the chosen area, lay out the shade in a relaxed state to determine suitable attachment points.

To determine attachment points for shades with four attachment points, typically two points of the shade will be directly attached. For the other two points, allow a minimum of an additional 10% of the shade's length between the shade's D-rings and the attachment points for tensioning. For triangles, typically one point will require tensioning, however two or even three points may be tensioned, if desired. Example: On 16' square shade, you should measure 1.6" (or 10% of the 16' shade) between the shade's D-ring and the attachment hardware on the post or structure.

Ready-made shades:

It must first be determined that a ready-made size shade is available that will fit the project's requirements. Accurate measurements to determine its proper fitment is essential.

Custom-sized shades:

Accurate measurements between all attachment points are essential to ensure proper fitment. When possible, we suggest the installation of attachment points first and then taking final measurement for custom shade fabrication.

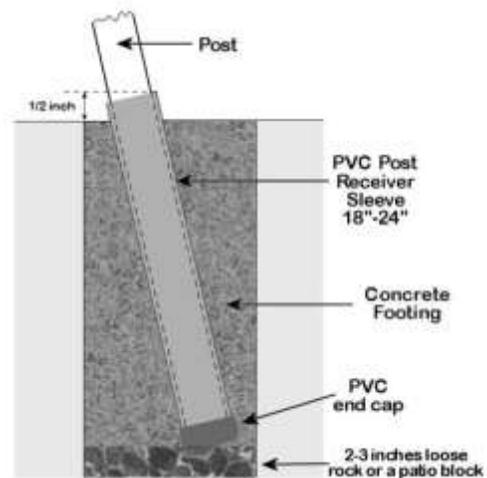
Driveway shades:

This type of shade can have either 4 or 5 attachment points (and must be ordered as one or the other). As seen in the diagram below, the fifth point, centered above the garage door, can be at the same height as the two outer attachment points (Method A) or several inches higher (Method B) to allow for water runoff. When used in a temporary or occasional application, PVC receiver sleeves are used for quick set up and removal.

Recommended post size:

- Minimum 1-1/2" OD Schedule 40 – up to 250 sq. ft. shades
- 2", 2-1/2", or 3" OD Schedule 40 – for 400 to 600 sq. ft. shades

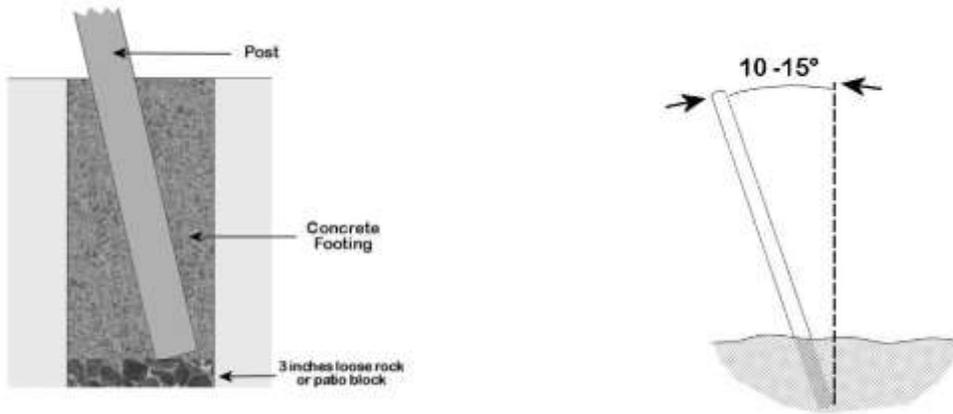
PVC receiver sleeves with a slightly larger ID than the OD of the posts should be set in concrete with no more than a 1/2 inch of the PVC receiver sleeve above ground. If set in grass or sod, this will allow clearance for lawn mowers. The receiver sleeve should be 18" to 24" in length and set in 2 to 3 cubic feet of concrete at a 10 to 15 degree outward angle from its opposing corner attachment point. It is recommended that a PVC cap with a 1/2" hole drilled in the center for drainage be used in the bottom end of each PVC receiver sleeve. Depending on soil conditions and the size of shade, it may be necessary to have a slightly deeper and larger diameter foundation.



Permanent Post Installation:

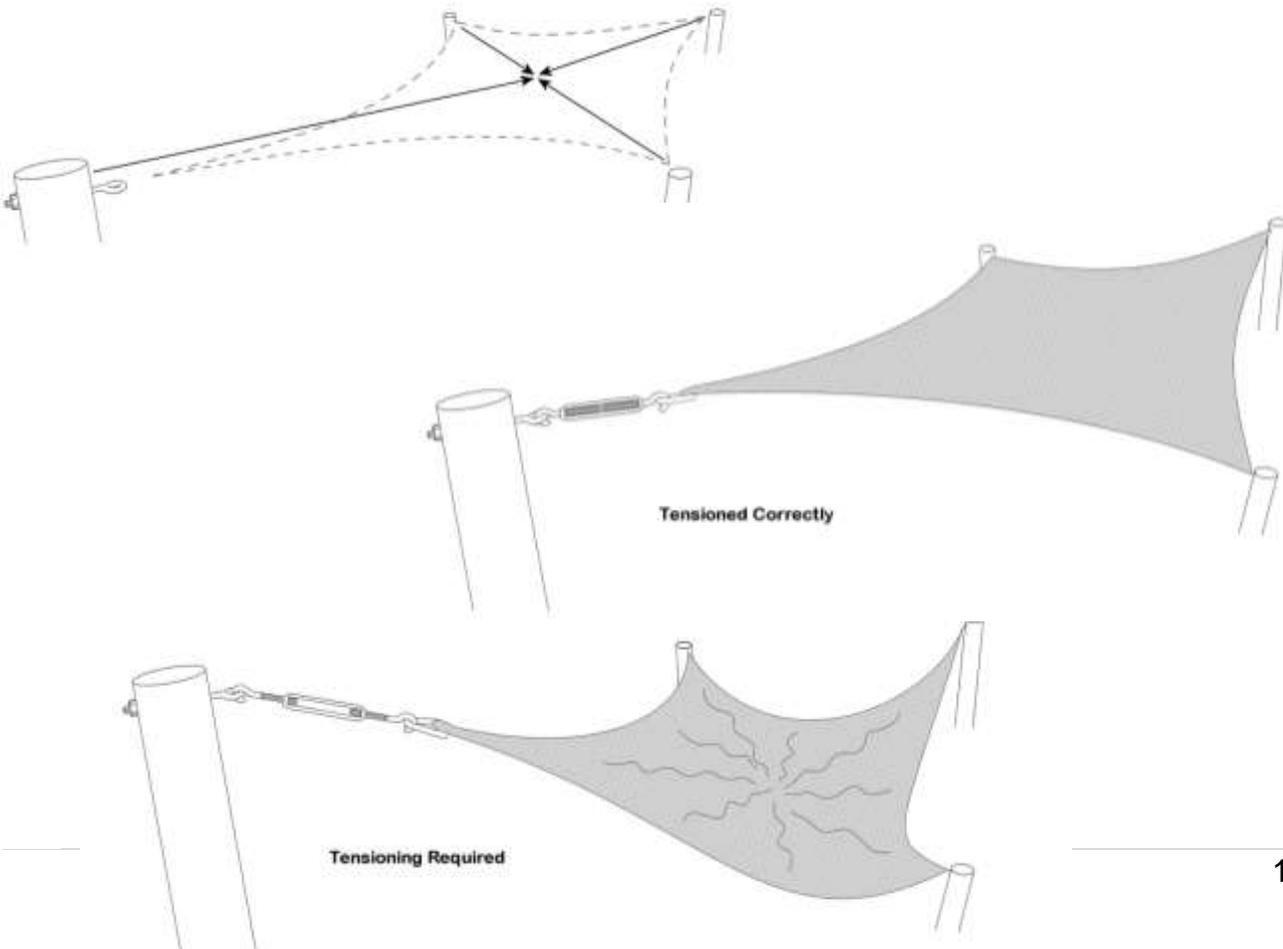
Typical soil conditions should require an 18" to 24" diameter and 3.5' to 4.5' deep foundation hole. For most any size shade, utilizing up to 6" round schedule 40 steel posts, it is unlikely that a foundation any larger than 2' in diameter and 4.5 deep would be necessary.

As with most all tension shades suspended from posts, it is best to have the post at a 10 to 15 degree outward angle from its opposite attachment point – be it post or structure. This slight angle, in addition to being more aesthetically pleasing, allows for the possibility of a slight movement of the post under tension going virtually unnoticed. Conversely, if the posts were initially set straight up vertically, any deviation from its 90 degree position to the ground would be quite noticeable.



Tensioning the shade:

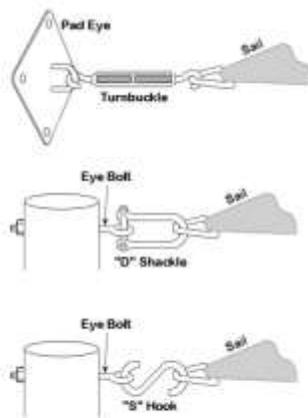
Whether tensioning from one or all attachment points of a shade with turnbuckle, ratchet strap or heavy-duty ratchet tensioner, it is imperative for proper fitment that the angle of pull be as shown in the diagrams below.



7. HARDWARE

The type of attachment hardware for a structure is determined by that structure's composition, i.e. cement block, wood frame, etc.

		
D rings – Used to attach shade to attachment hardware.	Triangle rings – Used to attach shade to attachment hardware.	Quicklinks – Used to attach shade to attachment hardware.
		
Eyebolts – Attachment hardware for aluminum or metal posts or structure.	Eyescrews – Attachment hardware for wood posts or structure.	Eye pads – Attachment hardware for structure that connects to shade hardware.
		
Turnbuckles – for shades under 300 sq. ft.	Ratchet straps – for shades under 600 sq. ft. Available in 1", 1.5" and 2".	Heavy duty 2" ratchet tensioner –for shades 600 sq. ft. and up



8. FABRICS AND MATERIALS

The standard shade fabric is heavy duty, professional grade architectural shade fabric (see attached brochure). It is made from UV stabilized HDPT knitted monofilament and tape yarns. This material is designed to let heat escape and to block UV sun rays. It comes in a variety of colors to blend with any environment or to attract attention. Features:

- Specialized lock stitch knit for more air movement and better channeling of cooling breezes.
- Constructed to block up to 98.8% of harmful UV sun rays.
- Heat set for ease of fabrication and to limit shrinkage.
- Recyclable, tear and fade resistant and will not crack, mildew, or rot.
- 10 year manufacturer's warranty against UV degradation.

In addition to the standard fabric, waterproof material is offered.

Reinforcement webbing and threads all have the same service life and warranty as the fabrics.



9. SHIPPING

Upon receipt of order, orders usually ship within 7 to 10 business days. Shipping time is dependent on the freight carrier and the customer's chosen method of delivery, given the customer's location.

For custom order shades and to ensure proper fitting, it is recommended that attachment points are installed first, whether post, structure, or a combination. The installer then takes final measurements for the shade, and gives the order to proceed with the shade fabrication. As above, the order usually ships within 7 to 10 business days of the final measurements being transmitted to the manufacturer.

Freight damage: Whether damage is obvious from the condition of the shipment when received or not, it is the customer's responsibility to immediately inspect the contents for damage. Any damage must be reported to the company and to the freight carrier within 3 business days of receipt. The damaged product must be available at the recipient's address with all original packaging for the freight carrier's inspection.

10. WARRANTY

Oasis Shades LLC warranties this product to be free from defect in materials or workmanship from the original date of purchase for the periods specified below.

- Shade fabric is warranted for ten (10) years by the fabric manufacturer. See product warranty and liability limitations information attached.
- Waterproof fabric is warranted for ten (10) years with the smooth side down and for five (5) years with the smooth side up.
- Shade fabrication is warranted by Oasis Shades LLC. for seven (7) years.

This warranty does not apply to any damage resulting from abuse or not of normal wear and tear, unauthorized alteration, improper installation or failure to use the product in accordance with its instructions.

In the event of any defect, this product will be repaired or replaced at Oasis Shades LLC's option without charge. This obligation to repair or replace this product at Oasis Shades LLC's option shall be the company's only obligation with respect to defects in this product. A return authorization number must be obtained prior to returning the product. Insured postage is the responsibility of the party returning the product for warranty. Once the product has been received and examined, if it is a warrantable defect, we will repair or replace the product and pay the insured postage to return it to the claimant.

Oasis Shades LLC will have no liability for any consequential, incidental, or special damages arising out of the use of the product, any defect in the product or otherwise except to the extent that this limitation is precluded by applicable law.

This limited warranty, which states the full obligation of Oasis Shades LLC, gives you certain legal rights. You may also have other rights which vary from state to state. Oasis Shades LLC specifically excludes all implied warranties including, but not limited to, the implied warranties of fitness for purpose and merchantability.

11. RETURNS AND EXCHANGES

Standard-sized shades may be returned within thirty (30) days of receipt of product provided the item is in new and unused condition. Returned items will be subject to a 15% restocking fee. The purchase price less the 15% restocking fee, shipping and handling charges, will be refunded to the purchaser.

Standard-sized shades may be exchanged for other standard-sized or custom shades thirty (30) days of receipt of product provided the item is in new and unused condition. Returned items will be subject to a 10% restocking fee, as well as any price difference in the new order.

Custom shades may not be returned or exchanged unless found to be defective in workmanship or materials.

We understand every installation is different and encourage you to contact us with any questions you may have.