HIP SHADE DESIGN INSTALLATION



RECTANGULAR EMBEDDED RECTANGULAR WITH BASE PLATES SQUARE EMBEDDED SQUARE WITH BASE PLATES

INSTALLATION INTRODUCTION

It is very important that you read this entire manual before beginning the installation process. We are continuously striving to improve our product, and the *Installation Introduction* will Contain the latest up-to-date information.

STORAGE:

When Shade Unit equipment is received at the job site it should be installed as soon as possible (within a few days). We package the equipment components to keep them safe and damage-free during shipment. However, the packaging material is not suited for periods of extended storage in an uncontrolled environments. The combination of moisture in the air mixed with heat generated inside the plastic shrink-wrap may cause damage to the finish of powdercoated frame members.

If an immediate installation is not possible, certain steps should be taken to minimize the risk of damage to the components. If Shade components must be stored, ideally they should be kept in a controlled warehouse or storage container environment away from heat and moisture. If this is not possible, the packaging material should be removed. Care is recommended when using cutting blades to remove packaging. Keep blades away from powdercoated surfaces to avoid damage to finish..

INVENTORY:

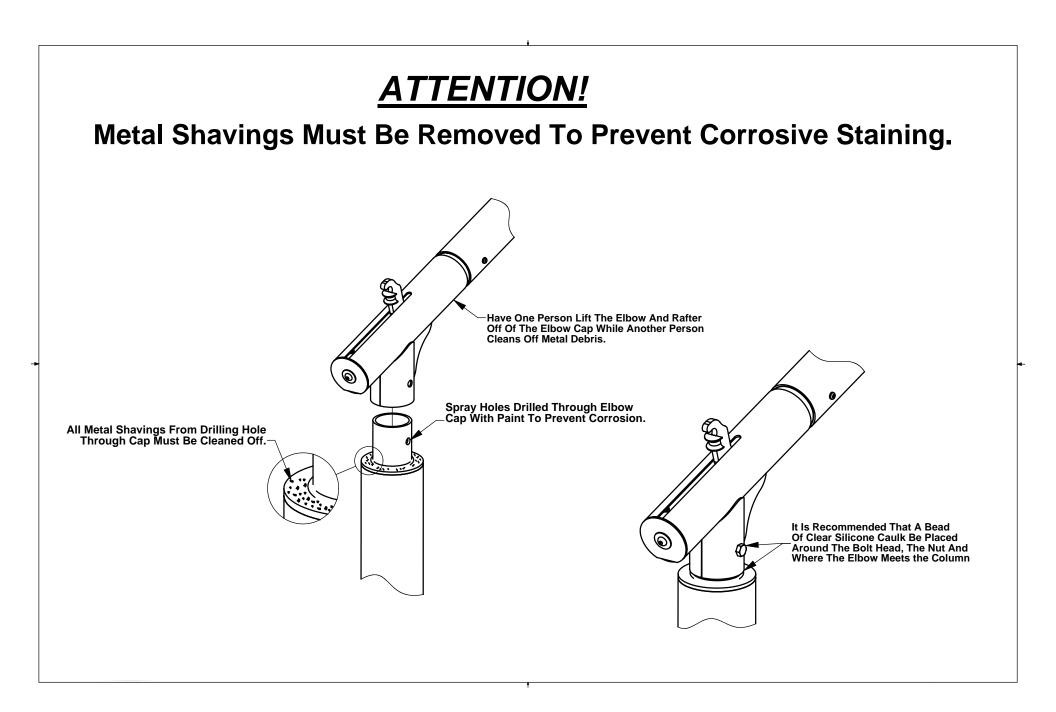
It is very important that you inventory all Shade equipment received using the Packing List that shipped with your unit. Review all items for proper quantities and check for any damaged components.



WARNING:

Cables must exit through holes under webbing

to ensure spacing for the <u>FOUR</u> cable clamps.



SHADE UNIT SITE PREPARATION

Using the provided plan view drawing of your unit, locate the position of all four support columns.

All loose asphalt, concrete and debris must be removed from the entire site prior to installation.

Site must be graded as close to level as possible to aid in unit construction. Special installation considerations must be implemented for sites that are not level.

The customer is responsible for checking local soil and drainage conditions within the site area. Proper drainage around the unit and the support columns is important. Inquire with local contractors in your area for drainage recommendations.

Site must be surveyed for underground hazards such as Electrical Cables, Phone Lines and Gas or Water Pipes. Serious injury or death could result if these hazards are not first located and marked within the site.

Never leave the job site unattended without making sure that all open holes are covered with material such as plywood. Rope off all unfinished construction to keep children away from site until job is complete.





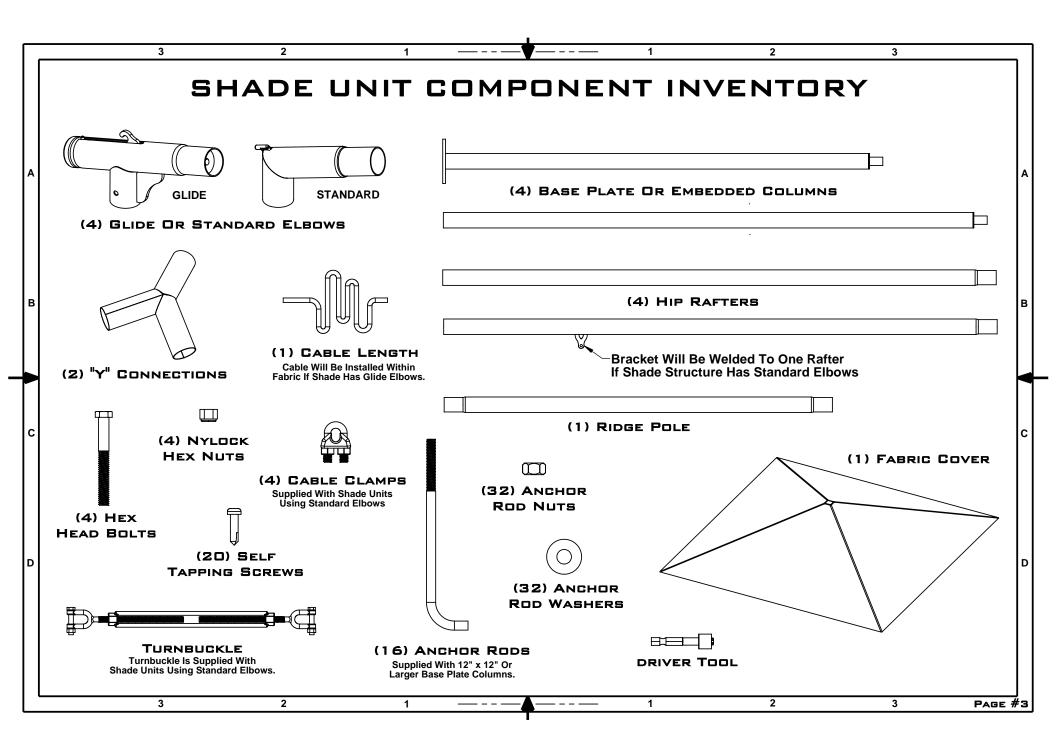
<u>REQUIRED TOOLS</u>

- (A) Safety Glasses
- (B) String Level, Magnetic Level
- (C) Rubber Mallet
- (D) Shovel / Post Hole Digger / Auger
- (E) Tape measure
- (F) Rechargeable Drill / Drill Bit Set
- (G) Socket Set (SAE)
- (H) Adjustable Wrench
- (I) Center Punch
- (J) Two Ladders (10' recommended)
- (K) Duct Tape
- (L) One 2" x 8" x 16" Wood Length
- (M) Multiple Scrap 2" x 4" x 8' Lengths
- (N) 1/2" x 4' x 4' Plywood Sheet
- (O) Wheelbarrow / Loader

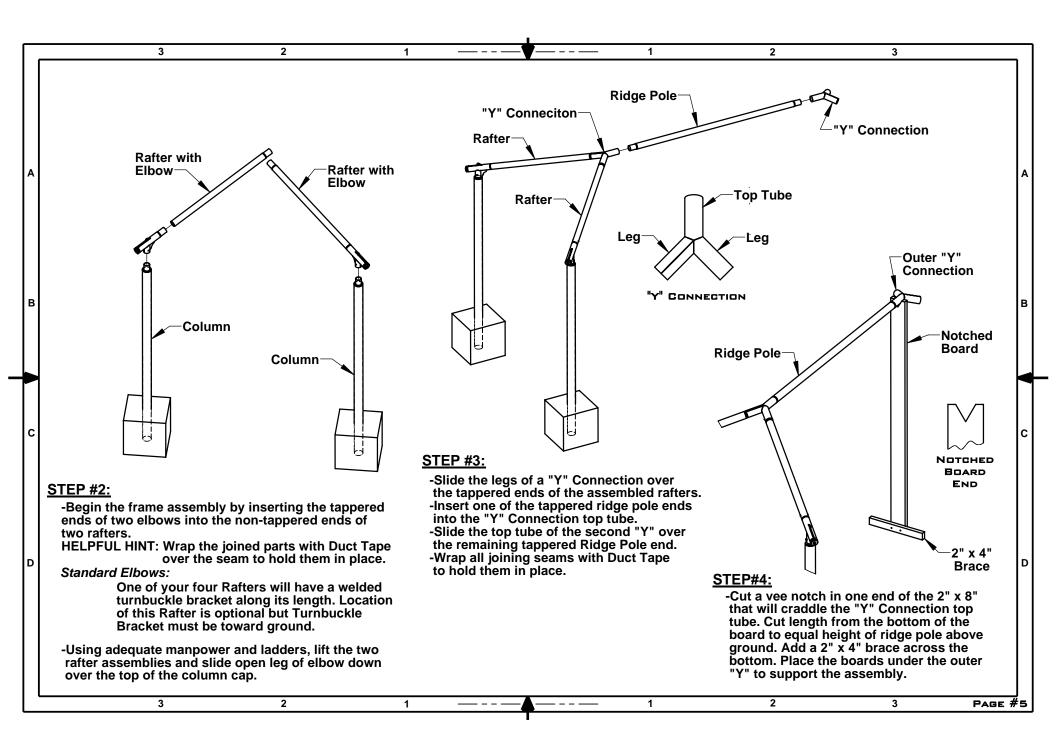


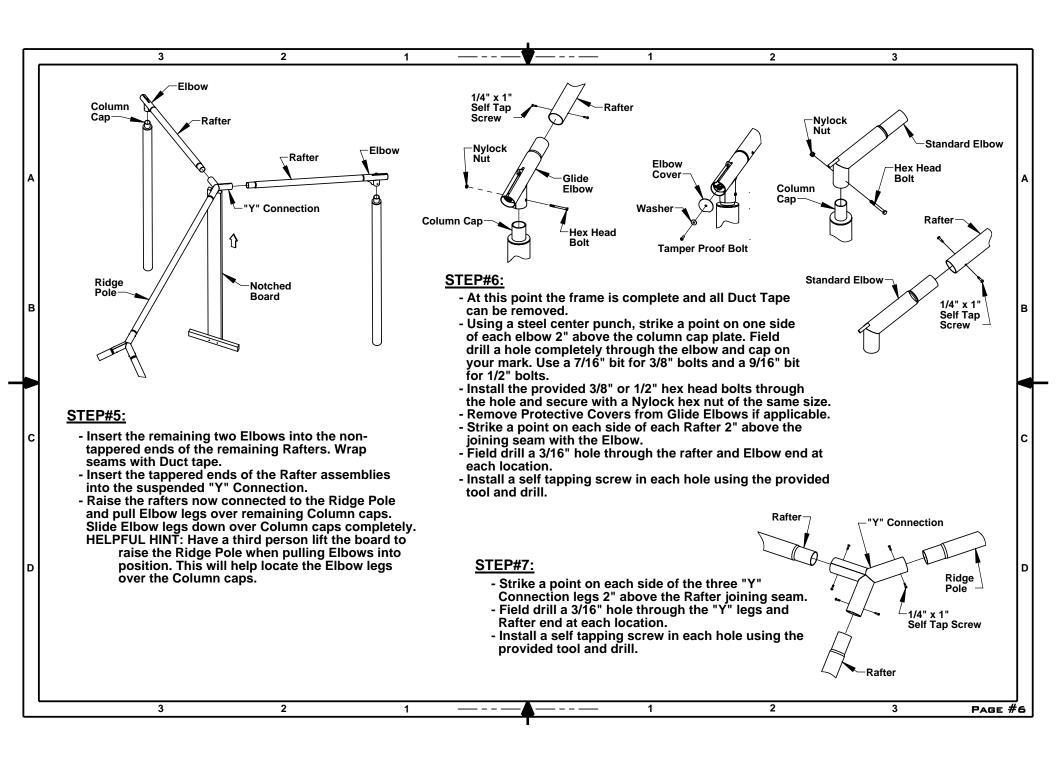


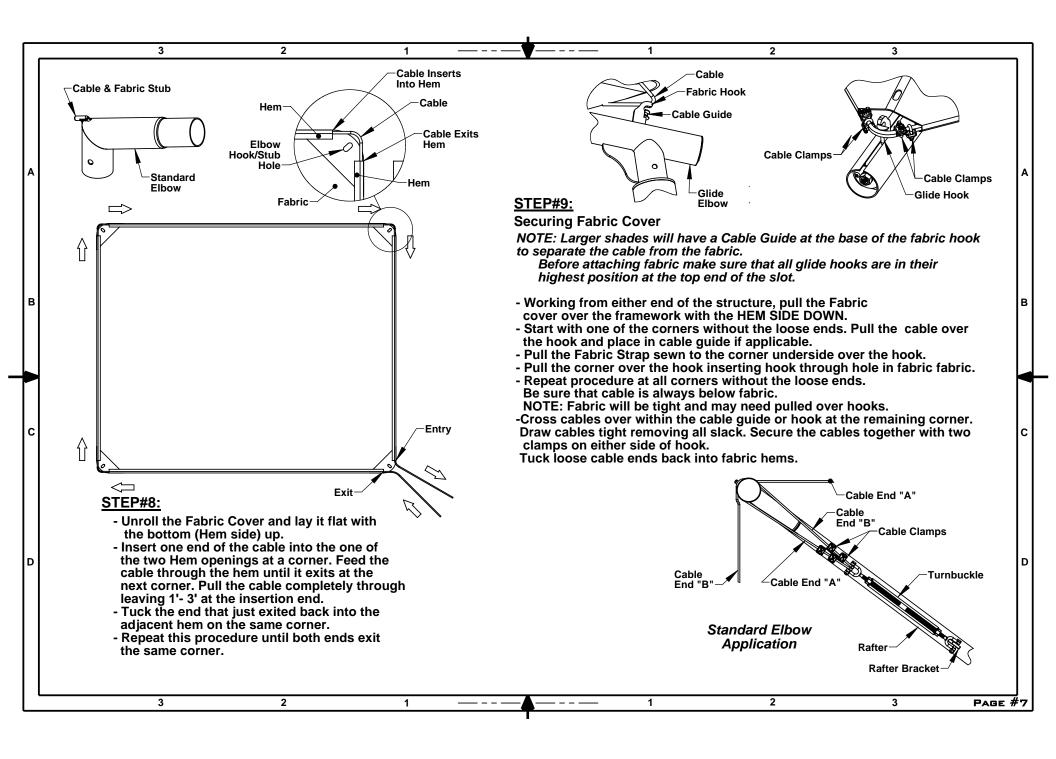


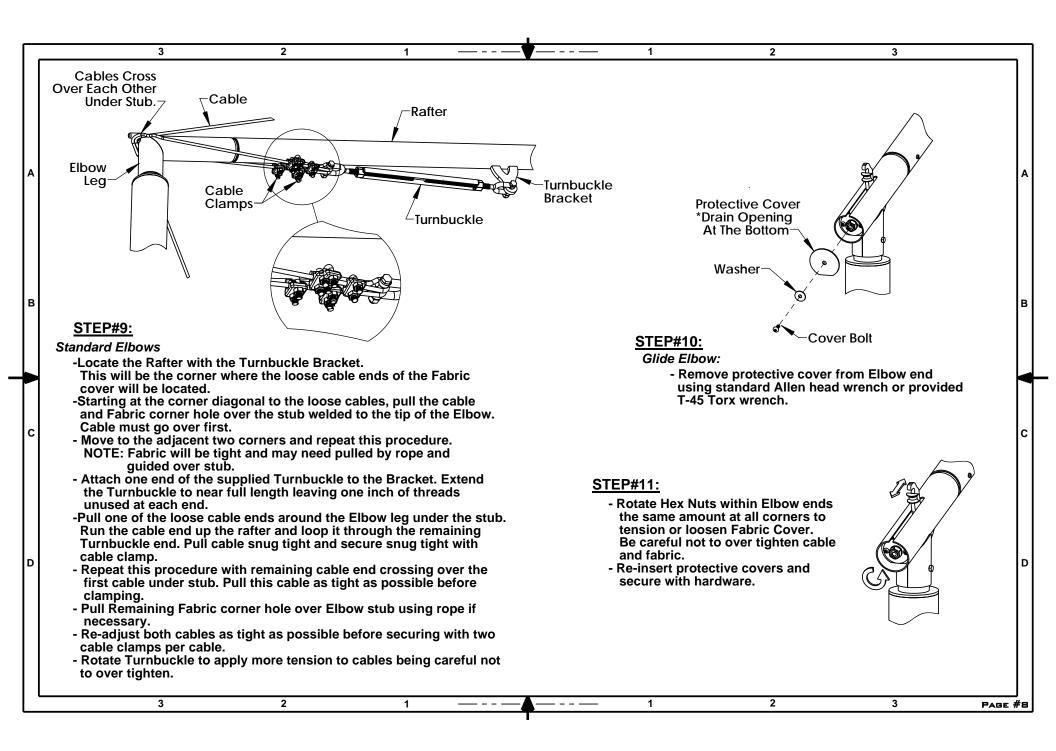


3 2 1	<u> </u>
STEP #1: Locate and mark the positions of the four upright columns. Refer to the specific dimension information for your Shade	
 unit provided in this packet. EMBEDDED COLUMNS: Excavate footings in accordance with the dimensions specified for your Shade unit. A Refer to the specific dimensions provided for your unit within in this packet. Place a 3" block in the bottom of each hole. Place a column into each hole on top of each block. Block and brace each column into position making sure that they are plumb and remain on centers. The distance between the columns at the top between cap centers 	LENGTH Ø1 1/8" + 20" SQUARE + TOP VIEW Ø1 1/8" • 0 COLUMN DIAGONAL Q WIDTH 2 5/8" +
must be correct. -Pour concrete around columns until it is three inches below grade level. <u>Allow concrete to harden</u> for 48-hours before proceeding to next step.	SQUARE
BASE PLATE COLUMNS: -Excavate footings for concrete pads in accordance with the dimensions specified for your shade structure. Refer to the specific dimensions provided in this packet. -Cut the plywood sheet into four squares 2" larger than your base plates. Working from the center, mark off the hole pattern that applies to your base plate. Mark the center point of the column as well.	
 Drill four holes through the plywood at the outer marks. Make the holes slightly larger then the anchor diameter. Insert the four anchors through the holes. Thread a nut completely over each anchor on top of the plywood. The four anchors should hang from the plywood. Fill the footer holes with concrete to 4" below grade. Place one Plywood sheet with anchors over each footer submersing the anchors into the concrete. Make sure the the center marks are on your column 	Grade 6" Base Plate Washer & Nut
 -After the concrete has started to harden you must remove the hardware and plywood from each footer. -Let concrete harden for 48-hours. -Re-thread a nut over each anchor down to the concrete. Place a washer over each anchor followed by each column base plate. Adjust the nuts under the base plates to plumb each column. Insert a washer and thread a nut over each anchor tight against base plate. 	Depth $\begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
 Apply concrete Grout base between base plates and concrete. 	NOTE: A HOLE IS PROVIDED AT THE BASE OF EACH COLUMN FOR ONE #4 ROD
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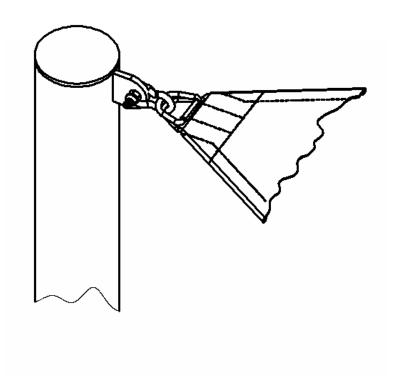






FABRIC INSTALLATION AND REMOVAL INSTRUCTIONS

COLUMN BRACKET SAILS



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