

PRODUCT MANUAL



If YOU can IMAGINE it... WE can BUILD it

QWIK-TOP® FRAME

WARNING

This tent product is not intended to be used as a shelter from severe weather. Evacuate immediately if threatening weather occurs (or is forecasted) or any condition arises concerning the safe use of this product. Threatening weather includes electrical storm systems, moderate to high wind (excess of 38mph), heavy rains, snow, or any condition that raises any doubt to the structural integrity of the tent

CAUTION

The installation of electrical, plumbing, lighting, appliances and/or HVAC equipment are not covered within this manual. Users/Installers shall follow local code requirements for the installation of these items using certified personnel. AztecTents shall be indemnified and held harmless from any such use or injury resulting from its use.

Important Safety Information

Proper personnel safety equipment should be worn at all times during the installation of any tenting products.

Hard Hat

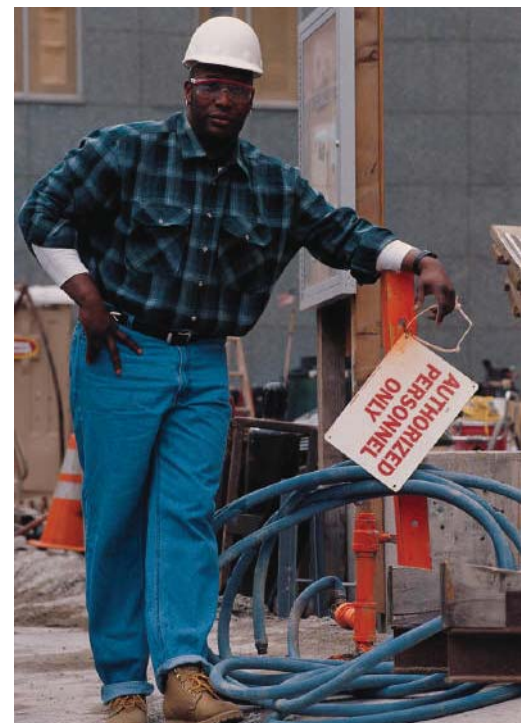
Safety Glasses

Work Gloves

Long Pants

Steel Toe Boots

OSHA Approved Harness and restraint system (for off ground activities)



Thank you for your recent purchase from Aztec Tents. The following procedures will help you through your installation. If you ever run into problems with the installation of your Aztec Tent give one of our sales/service professionals a call. Other product specific information, contact information, diagrams, and other operational support is available on our web site at www.aztectents.com.

Contents

General Care & Guidelines	
General Fabric Care & Maintenance	4
General Hardware Care & Maintenance	5
Fabric Flame Retardant Information	5
Anchoring	5
Pre-Installation Guidelines	6
General Installation Guidelines	6
Post Installation Guidelines- Maintenance	6
Safety & Evacuation Planning	7
General Take Down/Removal Guidelines	7
Special Care for Unsupported Clear Fabric	7
Other Resources	8
Tools Required for Installation	8
Optional Items & Accessories Available	8
Installation Procedure	9-15
Diagrams	16-25
Parts Images	26-27
Engineering Specifications	28-29
Replacement Parts	30

Questions? Call us.

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General Fabric Care & Maintenance

The vinyl fabric developed for this tent system requires specific attention during installation, cleaning, and storage to maintain its maximum life span. Please follow the following care and maintenance guidelines provided for this product.

GROUND CLOTHS:The usage of ground covering material under the tent during installation and dismantle will protect the tent fabric from soiling and from minor surface abrasions. A ground cloth can also help keep the tent top dry if the ground surface (i.e. dirt, grass, etc.) is wet during the installation or dismantle.

MILDEW TREATMENT:The fabric is pretreated with mildew inhibitors that help prevent the growth and spreading of mildew and fungus. Although treated, proper care should be given to prevent potential growth. If you see mildew wipe it away immediately with a clean towel and diluted soap solution. Never fold your fabric for storage if the fabric is even slightly wet. Mold/Mildew spores in the air and on the ground will come in contact with the fabric while installed. To grow, all the mildew needs is moisture and some source of food (often found in dirt that might be on the tent). Your best bet is to keep your fabric clean and dry to prevent mildew growth.

FABRIC CLEANING:The best way to clean the vinyl tent fabric is with a soft towel or soft bristled brush immersed in a diluted solution of warm water and our tent cleaning solution. A diluted and mixed solution of a tablespoon of traditional dish soap with a gallon of warm water will also work, but extra caution should be placed on insuring that this cleaning solution is thoroughly rinsed from the fabric especially with clear vinyls (See special notes on working with clear vinyls).

You will need a large, smooth, flat space slightly larger than the section of fabric. This space should be covered with a ground protecting layer to avoid damaging the tent membrane when moving in the washing area. Small impediments, sharp objects and rough surfaces all have the potential to damage the membrane you are trying to clean.

Follow the instructions for the proper dilution ratio of your cleaning product. Apply the diluted solution directly to the fabric using 1) a towel immersed in the solution, or 2) a spray bottle or larger pressurized spraying apparatus to evenly cover the fabric with the solution. Let this sit on the fabric for about one minute to allow the mixture to penetrate the fabric. Using a soft towel or soft bristled polypropylene brush (some can be mounted to a long handle to allow you to stand while working), gently work the cleaner into the fabric using only mild pressure. While harder bristled brushes can work, they will end up microscopically scratching the fabric, potentially permanently damaging the fabric and making it harder to clean the next time. The process of hand cleaning the fabric will allow you to apply only enough diluted solution to get the fabric clean. This will help limit the amount of water placed on the fabric to expedite drying time. Never allow the tent cleaner to dry on the fabric. For this reason, larger tents might be better to clean in sections. Once the cleaning is complete be sure to rinse away any cleaning solution completely from the tent membrane.

Full immersion of the fabric in water is not recommended. The use of commercial front loading or top loading washing machines is not recommended and will void the warranty of the fabric. These machines cause an excessive amount of stress to the fabric and can force water into the fabric causing increased occurrences of mildew growth and shorten the life of the fabric. As with any cleaning, the fabric should be hung to dry completely before folding and storage. Cleaners that include chlorine bleach, and/or any petroleum based solvents will degrade the fabric, discolor the fabric and shorten its life span.

If you have a difficult stain that cannot be removed with traditional cleaning, please consult with your sales person before trying any other chemicals that might end up damaging the material further. Do not use other chemicals or cleaners unless instructed by your sales professional.

FABRIC DRYING:The best way to dry the vinyl tent fabric is to hang-dry in a low humidity environment. Circulating air around the surface of the hanging fabric with the use of fans will also speed the drying process and improve drying time in more humid environments. Please also assure that subassemblies and other components within the tent system are dry before folding. These subassemblies can be reinforcements, lace lines, webbing, rope, thread, and/or any other part that is permanently affixed to the main tent membrane. The use of commercial drying equipment and any drying using heat will void the warranty of the fabric. **DO NOT STORE YOUR FABRIC WET.** Fabric folded and stored wet will mildew.

TENSIONING: Do not over tension your tent fabric during installation, use, or removal. Over tensioning can cause permanent damage to the tent membrane. The most obvious sign of over tensioning would be stress wrinkles at the tension points. Be sure to confirm that your frame/pole components match the tent design. In cases where the ground is not level, over tensioning is possible by trying to force the tent to dimension.

STORAGE RECOMMENDATIONS:The fabric for the tent system shall be stored dry in a cool, dry place in the protective storage bags included with your purchase. Other types of bags are acceptable as long as they can protect the fabric from the environmental elements of the storage area.

INSPECTION: Prior to each use, each component of the tent system needs to be thoroughly inspected to assure its structural stability has not been compromised. Fabric components that are ripped, torn, frayed, or damaged shall be immediately replaced and not used. Structural components of the fabric membrane are the most critical including but not limited to the main fabric membrane, structural reinforcements and webbing, web termination plates/rings/fasteners, and connection points from fabric panel to fabric panel or connection points between the fabric panel and the hardware support system.

General Hardware Care & Maintenance

The hardware components developed for this tent system requires specific attention during installation, cleaning, and storage to maintain its maximum life span. Please follow the following care and maintenance guidelines provided for this product.

OXIDATION:The hardware components for this tent system have been supplied to you with specialty coatings to help limit oxidation. With usage, these coatings will need to be maintained in order to limit oxidation and for the product reach its full intended lifespan. With plated or powder coated steel components, any rust should be removed immediately with a stiff wire brush and sprayed with either a galvanizing spray or durable paint to seal the steel from the elements. Anodized aluminum components will get scratched over time and these scratched areas can develop a thin black oxidation common with mill finish aluminum. This black oxidation can cause staining to any fabric components that come in contact with the pole/component. Your best preventative measure will be to avoid scratching of the anodized coating by avoiding any sharp edges that might be come in contact with the aluminum member.

HARDWARE CLEANING: It is very important to keep your hardware components clean and free of dirt, oxidation, and other chemicals especially if those hardware components come into contact with any fabric components during installation, use, or take-down of your product. Any dirt, oxidation, or chemical on the surface of the hardware member can transfer the contaminant to the fabric causing permanent staining, or permanent damage to the fabric membrane. If hardware components are found to be soiled, wipe down immediately to remove the foreign matter.

STORAGE RECOMMENDATIONS:The hardware for the tent system shall be stored dry in a cool, dry place. Anodized aluminum component can be stored outside, but should be covered to prevent foreign matter from collecting on the components that might stain or damage the fabric membrane during installation or use. Any/all steel components shall be stored indoors in a dry/low humidity environment.

INSPECTION: Prior to and after each use, each component of the tent system needs to be thoroughly inspected to assure its structural stability has not been compromised. Hardware components that are bent, cracked, frayed, or damaged shall be immediately replaced and not used. Specific attention should be paid toward any devices used for anchoring including ratchets, ropes, cables, and web straps.

Fabric Flame Retardancy

All vinyl fabric used in the production of our tents, walls, and accessories are certified flame retardant per NFPA 701 and the California State Fire Marshal. These vinyl products are produced so that they are inherently flame retardant, and thus will never require additional applications of flame retardant chemicals.

Every section of fabric produced by Aztec Tents contains a label identifying its flame resistance characteristics and date produced. This label matches a hard copy of the flame certificate that is mailed to you after receipt of your goods.

If at any time you need to be issued a duplicate flame certificate, you can request one from our customer service representatives. Please be sure to have the invoice number and date of production available when requesting duplicate flame certificates.

Anchoring

All anchoring locations must be laid out accurately as described in the manual and diagrams contained within (in advance of laying out the fabric) to a tolerance of +/- 4" in any direction (right or left, forward or back, up or down, etc.) All column base locations must be laid out to a tolerance of +/- 3" in any direction for any standard supported tents and within a tolerance of +/- .5" for any product utilizing keder channels.

A wide variety of ground anchoring devices are commonly used. Soil conditions and resulting ground anchor holding capacities vary from site to site, and can vary within a particular site. The Owner and/or Installer of the tent is fully responsible for assuring that the selection and installation of the anchoring devices is adequate to resist the pull out loads specified in the product manual.

Reduced anchor performance can occur under wet soil conditions and needs to be accounted for. Care should be taken that water is not allowed to drain or collect near anchors.

Anchoring device holding capacity can be developed using a single large device, or by using multiple smaller devices.

Ensure that the anchors installed are adequate to resist the pull out loads shown. Actual testing of some individual anchors to 75% of the anchor pull-out load is recommended.

Additional installation and anchoring information entitled "The IFAI Procedural Handbook For The Safe Installation And Maintenance Of Tentage" is published by the Tent Rental Division of the Industrial Fabric Association International (IFAI).

Pre-Installation Guidelines

Correct field installation of this tent system requires diligence and considerable skill and expertise which can be obtained only through the proper field training and experience of a professional rental tent supervised installation crew. This is instrumental to obtaining the optimal structural behavior of the tent.

- Obtain any required permits or inspections needed by local codes and regulations.
- Clear the site to prepare for the planned activity.
- Check for sub grade utilities before installing any anchoring devices.
- Check for any overhead obstructions that might interfere with the tent installation. Do not install any tent within 50' of any overhead utilities, power lines, or other obstructions. Installation under or within close proximity to trees should be avoided.
- Locate the public circulation routs with clearance from anchors around the exterior of the site. Identify clearly.
- Use drop cloths to prevent soiling or damaging the fabric membrane.
- Pad and tape objects with sharp projections which will remain on site under the tent.
- Cover any sharp edges on anchoring devices with protective material

General Installation Guidelines

Each component of the tent should be inspected at the beginning of installation for visual signs of damage by the installer. All damaged materials should be repaired or replaced immediately.

The weather should be carefully considered by the Owner and/or the Installer before raising the tent since the hardware and fabric cannot transmit design wind loads or shed rainwater loads (potential ponding) when it is not fully anchored, installed, and/or tensioned. It is recommended that installation or removal of the fabric members be informed when the wind speed is less than 15 mph. The decision to raise or lower the fabric of the tent should be the responsibility of the experienced rental tent installation supervisor based upon conservative life safety considerations and judgement.

Adequate and appropriate installation and maintenance procedures are necessary to achieve and sustain full design load capability for the tent. The Owner and/or Installer are fully responsible for assuring that the tent is properly installed and maintained.

Certification of this tent structure is valid only with the use of AztecTent supplied and assured components or those which meet or exceed the requirements of the design throughout the installation of this structure, with the exception of the anchoring devices which must be determined by the installation engineer.

Post Installation Guidelines/ Maintenance

Each component of the tent should be inspected at the end of installation for visual signs of damage by the installer. Additionally, an inspection should be performed after any severe weather/wind events that might have affected the overall integrity of the design. All damaged materials should be repaired or replaced immediately.

A variety of material and weather factors can result in fabric stretch, web belt stretch, rope stretch, mast base settling, changes to design geometry, etc. Changes to the design geometry of the tent and consequently the structural performance characteristics of the tent, can occur while the tent is in service and not attended by the professional installer. It is recommended that a maintenance agreement be arranged between the Client/User of the tent and the Installer involving periodic inspections and adjustments.

If rainwater ponding occurs at any point on the fabric, evacuate the tent, remove the water, and adjust the tie back rope/web prestress tension and/or fabric tensioning over the frame back to its design geometry to achieve positive drainage.

It is understood and expected that some damage to the fabric membrane and/or non structural components may occur in conditions below the overall design wind velocity rating of the tent system. This damage may result in components requiring repair or replacement as necessary.

Safety & Evacuation Planning

It is the responsibility of the Owner and/or the Installer to warn the User and or Occupants of the tent system that this product is not intended to be used as a shelter from severe weather. Aztec assumes no liability for such use. An evacuation and communication plan for the area covered within this tented space is imperative and shall be thoroughly communicated to all users and potential occupants of the tent. Severe weather including electrical storm systems, moderate to severe wind, heavy rains, snow, or any condition that raises any doubt to the structural integrity of the tent are immediate signs that an evacuation is necessary. Severe bodily injury and/or death can occur. A best practices document published by the American Rental Association covering this topic can be downloaded at: http://aztectent.com/webfm_send/151

Common signs that warrant the immediate evacuation of this tent:

- Any movement, displacement, or failure of any of the anchoring devices or support hardware.
- Any component failure in part or whole
- Any tear or puncture in the fabric membrane
- Any forecasted moderate to severe weather condition
- Any collection or accumulation of snow or ice on the tent
- Strong winds causing movement and/shifting of the tent or tent support structure
- Strong winds causing small branches to be ripped from trees
- Any lightning or electrical storms
- Hail or frozen precipitation any larger than pea size
- Any fire or smoke within close proximity of the tent
- Any small of gas, exhaust, or other odor from any combustible material

In the event of forecasted severe weather, hurricane, or other such early warning, it is recommended to immediately evacuate the tent and time permitting take down the tent and remove from the site.

General Take Down/ Removal Guidelines

The weather should be carefully considered by the Owner and/or the Installer before lowering the tent since the hardware and fabric cannot transmit design wind loads or shed rainwater loads (potential ponding) when it is not fully anchored, installed, and/or tensioned. It is recommended that installation or removal of the fabric members be informed when the wind speed is less than 15 mph. The decision to raise or lower the fabric of the tent should be the responsibility of the experienced rental tent installation supervisor based upon conservative life safety considerations and judgement.

Unless otherwise noted in the procedures that follow, the removal of this tent system shall follow the same procedures outlined but in the reverse order.

Once unassembled, each component of the system should be inspected for any signs of visual damage by the installer. All damaged materials should be marked or identified so that repair or replacement of these materials can occur prior to the next use of the product.

Special Care For Unsupported Clear Fabric

The clear fabric used in window style sidewalls, clear sidewalls, and clear tent tops needs to be managed differently than standard tent fabric. Polyester scrim is what gives standard tent fabric its strength, stability and durability. Laminated tent fabric enjoys the benefit of encasing this woven layer of rip-stop polyester between the layers of colored vinyl film. Clear vinyl does not enjoy those benefits. Because of this, clear vinyl has a very low tolerance to ultra violet ray exposure, wind, airborne particulate matter, hot or cold temperatures, elasticity due to wind and rain and handling. Any or all of these factors will cause clear fabric to under perform when compared to traditional tent fabric.

Special attention should be paid to the cleaning of these items. Use only the softest towels when cleaning the clear membrane to avoid scratching the highly polished surface, and wipe dry to avoid water spots. Use standard diluted tent cleaning solution. **DO NOT USE OTHER CHEMICALS.**

Exposure to ultra violet rays for an extended amount of time as will occur with time over the life of the product, will cause the fabric to appear milky or opaque. Putting away and storing damp or wet clear vinyl will result in an amber hue in the clear film. Steady wind can whip clear vinyl back and forth and cause surface or through cracks in the fabric. Heat in excess of Eighty-five degrees can cause clear vinyl to change shape, bubble, shrink or stretch. Although our clear vinyl has a cold crack rating of minus fifteen degrees Fahrenheit, that rating is for a static environment. Any introduction of wind or manipulation by handling will cause failure (cracking like glass) at nominal temperatures above freezing. Airborne particulate matter will abrade the surface and cause the finish to become less translucent.

Clear tent tops are also very susceptible to water ponding as they are highly elastic. If rain is forecasted during the use of these products it is recommended to take additional precautions and more frequent inspections throughout the duration of the rainfall to inspect for potential ponding on the roof fabric. If rainwater ponding occurs at any point on the fabric, evacuate the tent, remove the water, and adjust the tie back rope/web prestress tension and/or fabric tensioning over the frame back to its design geometry to achieve positive drainage.

Other Resources

American Rental Association- www.ararental.org

Tent Rental Division of The Industrial Fabric Association International- www.tentexperts.org

Tools Required for Installation

Sledge Hammer	For driving anchoring stakes
Canopy Jacks	For lifting Frame
Drop Cloths	For protecting fabric membrane
8' Ladder	General installation tool
Utility Knife	General installation tool
Tape Measure	General installation tool
Marking Paint/Chalk	Used to mark anchoring locations and tent boundaries

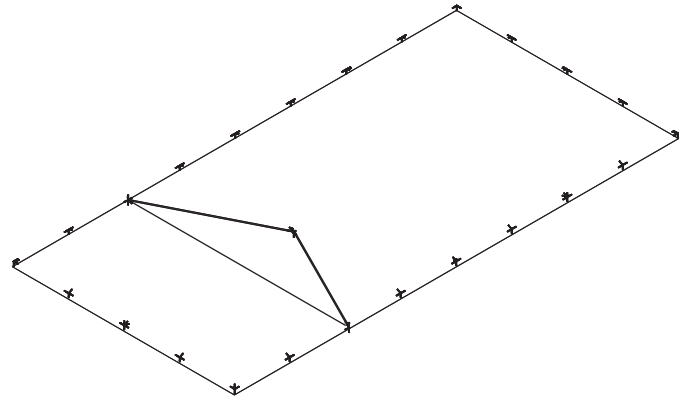
Optional Items & Accessories Available

Side Wall Panels	To enclose walls of tent
Raingutters	To collect and divert water away from connecting tent entrances
Decorative Liners	To add decorative look and hide most rafter framework
Canopy Doors	To add easily accessible means of egress to and from the tent
Additional Anchors	Additional anchors used to secure the tent system

The following installation procedure follows the step-by-step process for a 40' wide x 80' long Qwik-top frame tent. Although smaller widths do not have as many components the basic step-by-step procedure can be applied to all Qwik-top frame tents. The basic fundamentals include; building roof framework, place fabric cover over frame, lift & install legs on one side of tent frame, lift and install legs on opposing side of frame, install tiebacks/anchoring system, install any sidewall, finally tighten the tent fabric to the base plates.

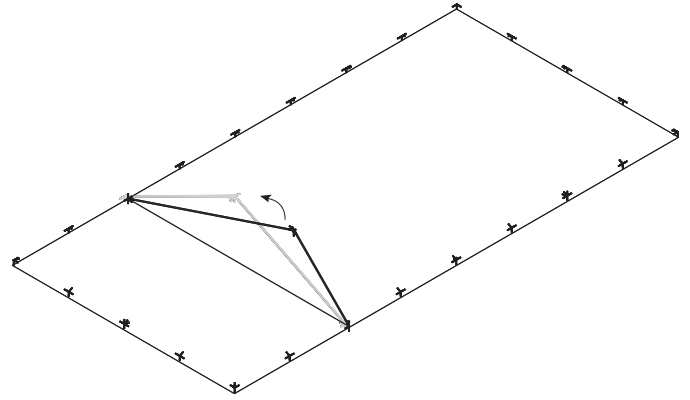
Step 1:

Assemble the starting arch. For tents smaller than 30' wide connect and pin the side tee to the rafter pole, connect and pin the crown fitting, the opposing rafter pole and opposing side tee. For 30' wide and 40' wide widths the perimeter fitting at this location would be a "Special Side Tee". See specific frame diagrams for correct pipe sizes. Once the main arch is assembled on the ground, place the large loop of the assembly cable over a perimeter arm of the tee fitting and stretch the cable across the tent to loop over the perimeter arm of the opposing tee or special side tee fitting.



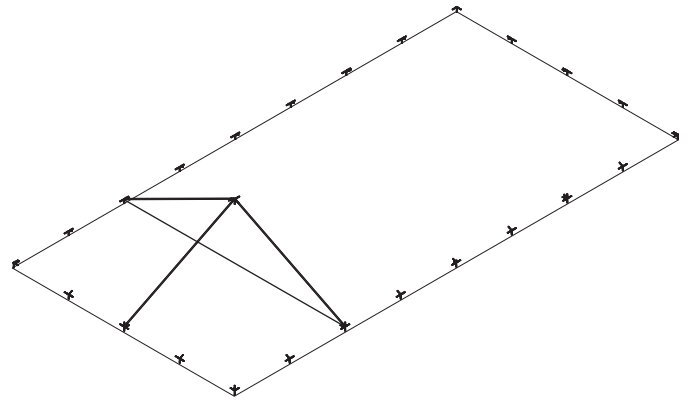
Step 2:

Rotate this beam arch into a vertical position and hold into place



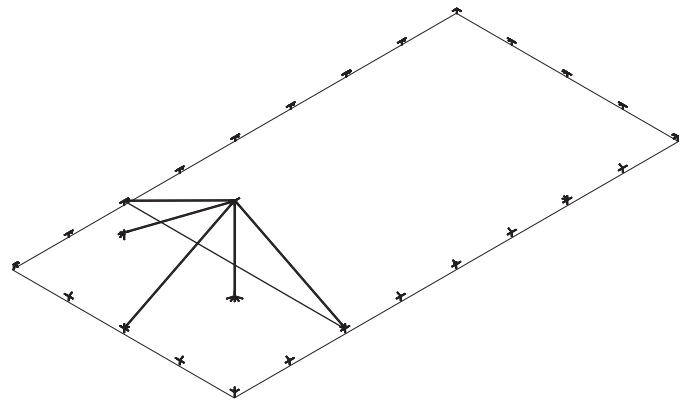
Step 3:

Connect and pin the end rafter to the crown fitting and connect and pin the side tee (or special side tee for 30' and 40' wide tents) along the perimeter of the tent.



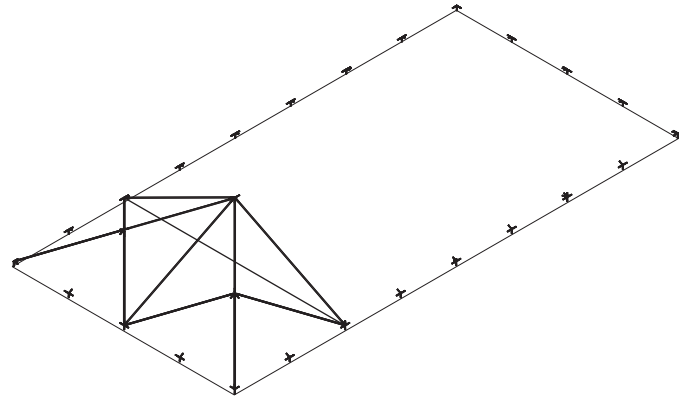
Step 4:

Begin assembling the hip end of one side of the tent. Connect and pin the hip rafter pipe to the crown fitting. For 20' wide and smaller units this pipe will extend to the corner of the frame. For 30' wide tents the hip rafter will also extend to the corner but you will also need to slide the 30' Slide Hip Intermediate fitting to the midpoint of this frame pipe. This fitting can lock into place by turning the thumb screw under the bottom of the fitting. For the 40' wide system the hip rafter is constructed with two 14'4" pipe with the 40' Hip Intermediate fitting as a connector in the center of this span.



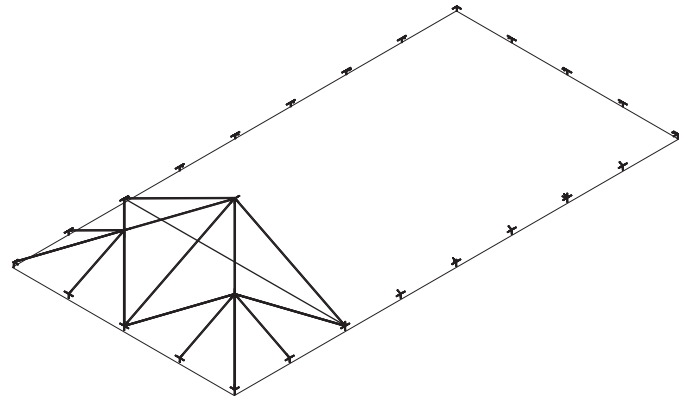
Step 5:

Connect and pin the hip brace pipes. These are only used on 30' wide and 40' wide units. Connect first at the hip intermediate fitting, then connect and pin to the special side tee at the bottom of your primary beam arch. For 20' wide and smaller tent sizes, proceed to step #7.



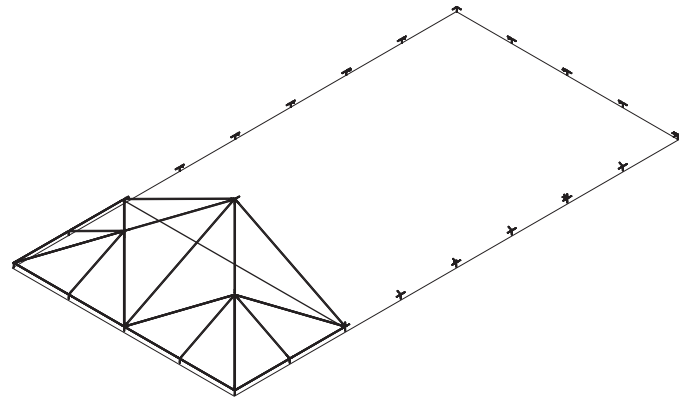
Step 6:

The 40' wide tent has a secondary set of hip brace pipes measuring 10'6". Connect and pin these to the 40x hip intermediate fitting, then connect and pin the side tee at the eave of the tent.



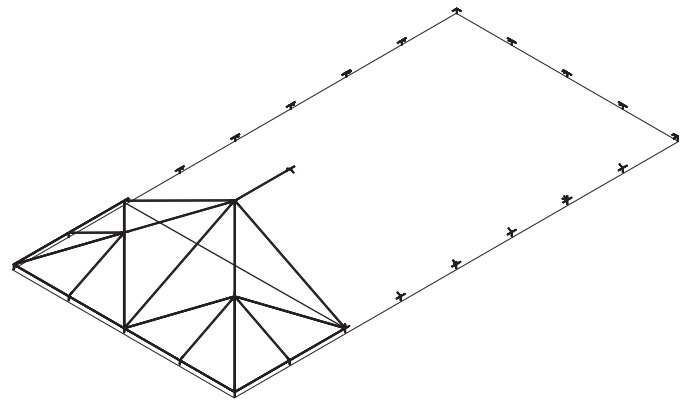
Step 7:

Connect and pin the perimeter/eave pipes to the perimeter fittings. Make all connections with the final connection to the corner fittings of the frame.



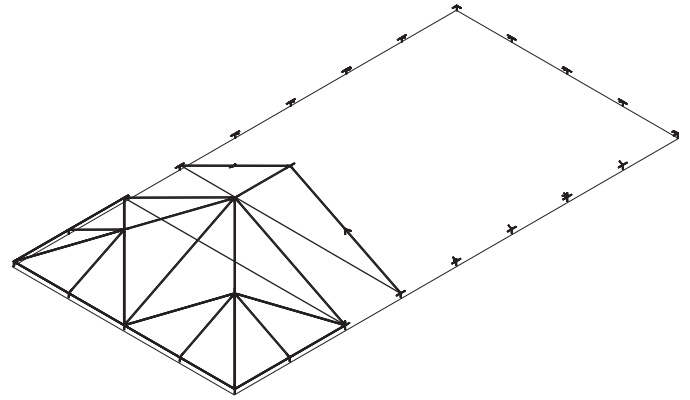
Step 8:

Connect and pin the first ridge pipe to the end crown of the tent frame.



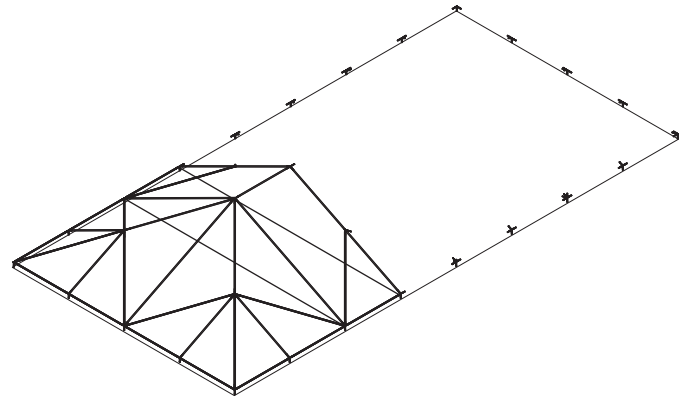
Step 9:

Connect and pin an additional set of rafter pipes to the top tee fitting at the end of your first ridge pipe. For 40' wide tents you will also need to slide the 40x Slide intermediate fitting half way up each rafter and secure from sliding by tightening the thumb screw on the underside of the fitting. Additionally, install the assembly cable by placing the large loop of the assembly cable over a perimeter arm of the tee fitting and stretch the cable across the tent to loop over the perimeter arm of the opposing tee or special side tee fitting. This process will continue for each additional beam arch that you construct.



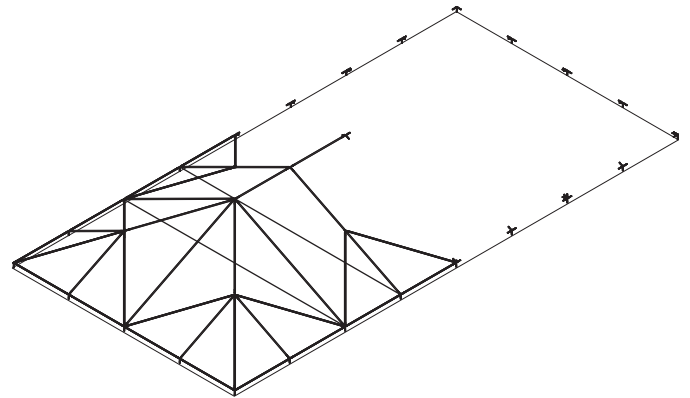
Step 10:

For 40' wide tents you will now connect and pin the 14'4" rafter diagonal brace pipe to first the 40x Slide Intermediate fitting then to the special tee on the eave of the tent. Once that is completed on both side of the tent, and for all smaller tents you will install the eave pipes to the eave fittings and pin into place.



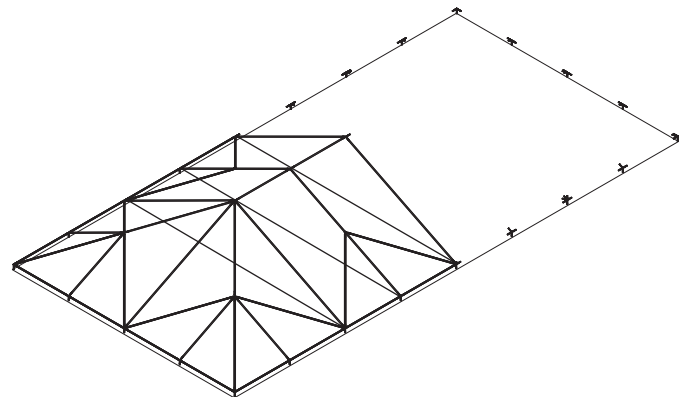
Step 11:

Continue building extensions to the frame by adding additional ridge pipe, top tee fittings, diagonal braces (as needed by size), and perimeter pipes. Connect and pin each of these connections as you work down the frame.



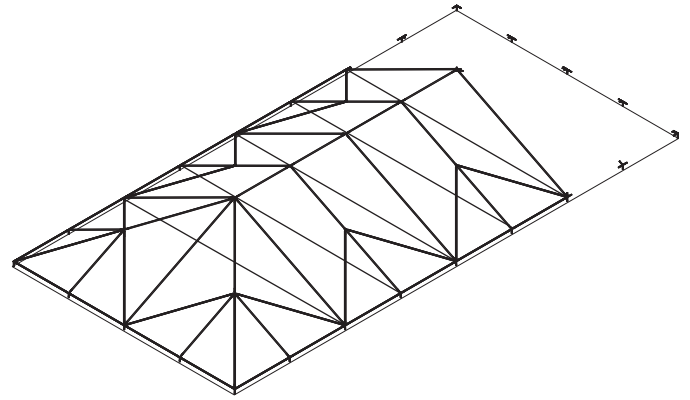
Step 12:

Add an additional set of rafter pipes to complete the next beam arch and install the assembly cable to span from eave fitting to eave fitting.



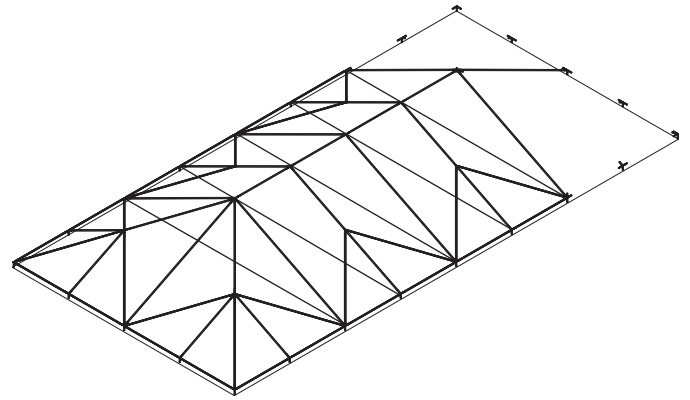
Step 13:

Continue building additional extensions in the same manner until you reach your last main beam arch. This arch will utilize a 6 way crown to allow connection of the opposing hip end framing for the remaining portion of the tent frame.



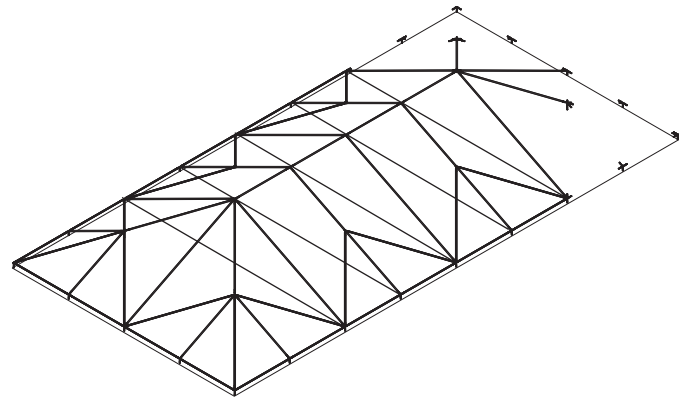
Step 14:

Start building the hip end frame by connecting and pinning the end rafter pipe to the 6pt Crown fitting.



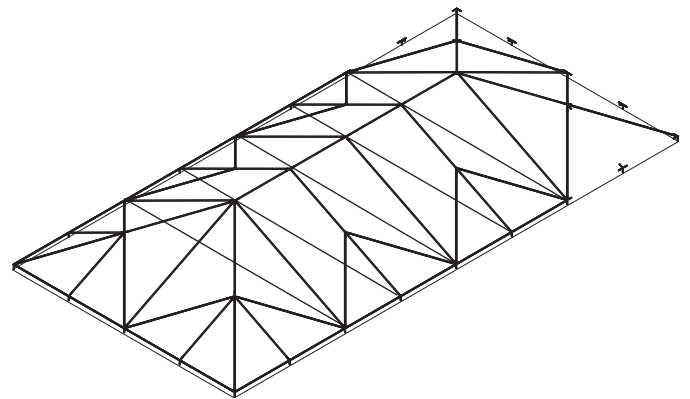
Step 15:

Begin assembling the hip end of one side of the tent. Connect and pin the hip rafter pipe to the crown fitting. For 20' wide and smaller units this pipe will extend to the corner of the frame. For 30' wide tents the hip rafter will also extend to the corner but you will also need to slide the 30' Slide Hip Intermediate fitting to the midpoint of this frame pipe. This fitting can lock into place by turning the thumb screw under the bottom of the fitting. For the 40' wide system the hip rafter is constructed with two 14'4" pipe with the 40' Hip Intermediate fitting as a connector in the center of this span.



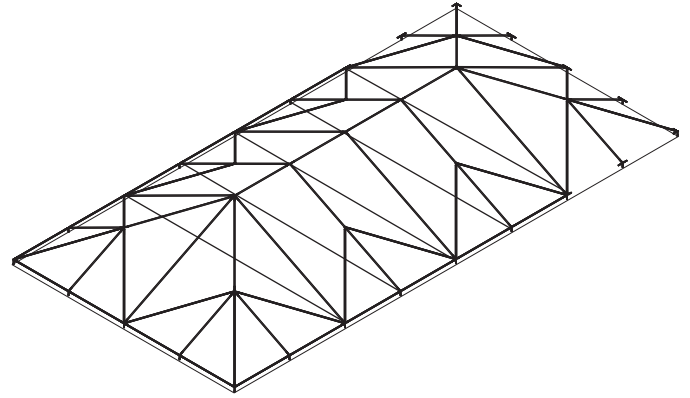
Step 16:

Connect and pin the hip brace pipes. These are only used on 30' wide and 40' wide units. Connect first at the hip intermediate fitting, then connect and pin to the special side tee at the bottom of your primary beam arch.



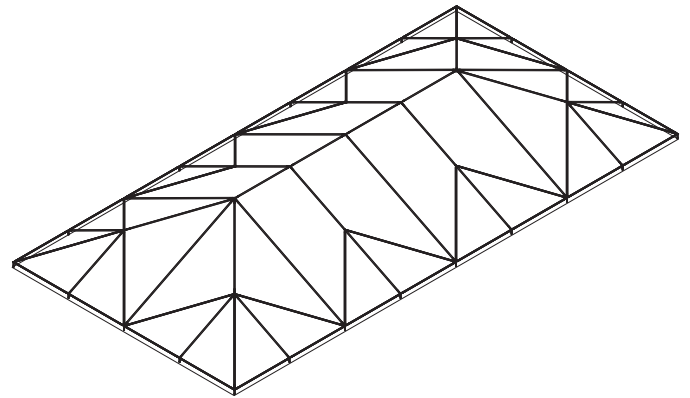
Step 17:

The 40' wide tent has a secondary set of hip brace pipes measuring 10'6". Connect and pin these to the 40x hip intermediate fitting, then connect and pin the side tee at the eave of the tent.



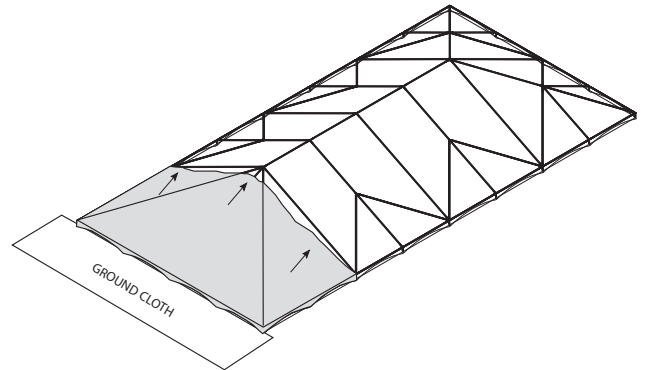
Step 18:

Connect and pin the perimeter/eave pipes to the perimeter fittings. Make all connections with the final connection to the corner fittings of the frame.



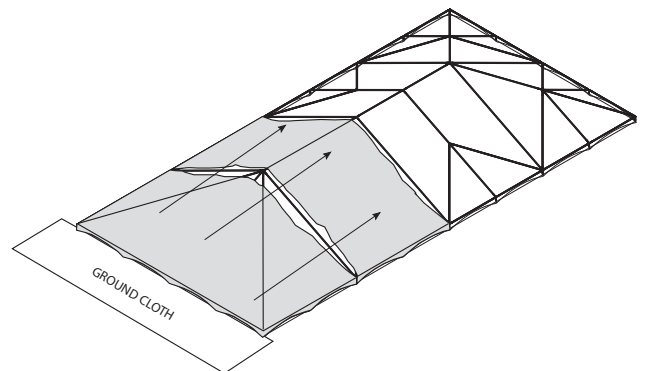
Step 19:

Lay down a drop cloth to unfold the end section of the tent top on one end of the tent. Make sure to inspect the tent top for cleanliness at this time as it becomes next to impossible to clean the exterior of the tent once the top is installed. Unfold the tent top and pull it over the frame shiny side up. **Dragging the top fabric on the ground, or pulling hard over frame parts can damage, tear, and scratch the fabric. Be careful with your fabric.

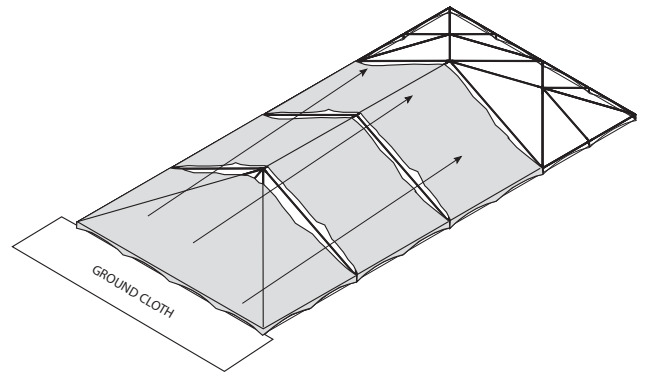


Step 20:

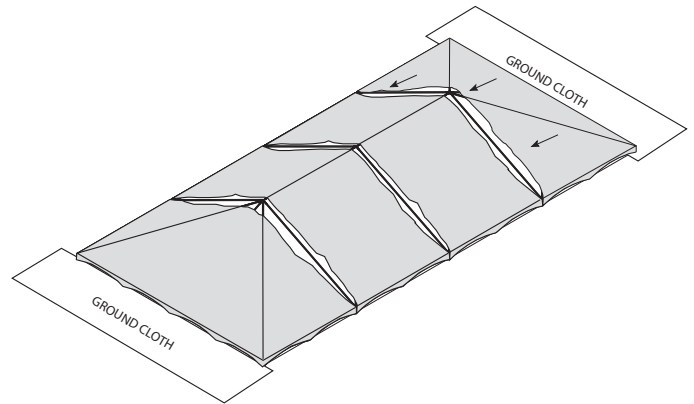
Unfold the middle section of the tent top and pull up and over the framework.



Step 21:
Continue pulling the other middle sections over the framework and into position.



Step 22:
Once you've reach the other end of the frame open the mating end of the tent on a drop cloth and pull up and over the framework.



Step 23:
The connection of the fabric sections to one another is achieved by using either a clasp or a lace connection. Proceed to step 24 for lace connection. The clasp connection features a male/female metal clasp system to connect the sections. Start at the ridge of the tent and connect the tent fabric sections together. As you work your way down to the perimeter close the Velcro rain flap as this will provide the weather protection to this seam.

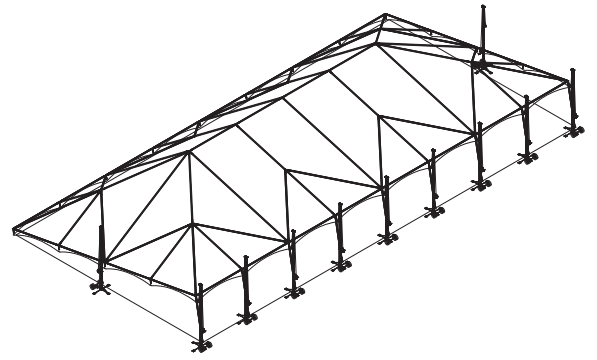


Step 24:
The lace connection features a series of webbing loops on one side of the connection and a series of equally spaced grommets on the opposing section. Start at the ridge of the tent and insert the lace cord through the mating grommet of the next section. Pull the lace cord downward toward the next lace/grommet set. As you insert the next lace through the grommet of the opposing section pass the lace through the loop of the preceding lace. You will continue this "lace chain" until you reach the perimeter of the tent and finish by tying and overhand knot. As you work your way down to the perimeter close the Velcro rain flap as this will provide the weather protection to this seam.



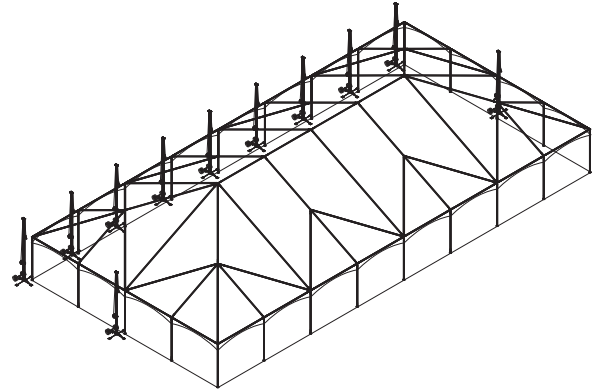
Step 25:

Position a tent jack next to each leg along the length of the tent and slowly and evenly raise one side of the tent frame off the ground. Once the frame is at an adequate height, connect and pin the leg poles to the perimeter fittings and connect and pin the Qwik baseplates to the bottom of the legs. Once the legs are all installed you can lower the frame so the legs hold the weight of the tent on the ground. Disconnect the tent jack straps from the frame and reposition the jacks on the opposite side of the tent.



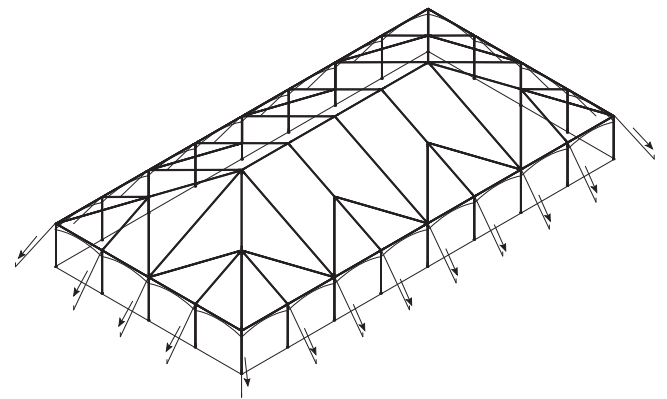
Step 26:

Position a tent jack next to each leg along the opposite length of the tent and slowly and evenly raise this side of the tent frame off the ground. Once the frame is at an adequate height, connect and pin the leg poles to the perimeter fittings and connect and pin the Qwik baseplates to the bottom of the legs. Additionally connect and pin all the remaining legs and baseplates along the end of the tent at this time. Once the legs are all installed you can lower the frame so the legs hold the weight of the tent on the ground.



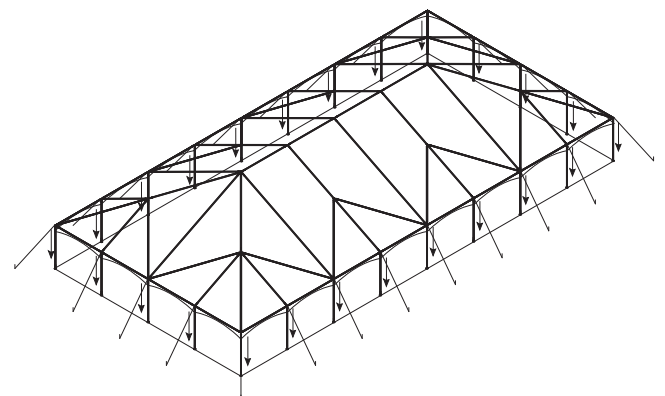
Step 26:


Using the included tieback ropes, loop a rope around each eave fitting and tie to the fitting using an overhand slip knot. Drive your anchor stakes vertically into the ground so that all but a few inches is embedded into the ground. Position these stakes at a distance equal to the leg height of the tent at an angle perpendicular with the eave frame. Tie the tieback rope in between the head of the stake and the ground and tighten until secure. If you are unable to tension to rope fully, you can drive the stake further into the ground until the rope is taught.

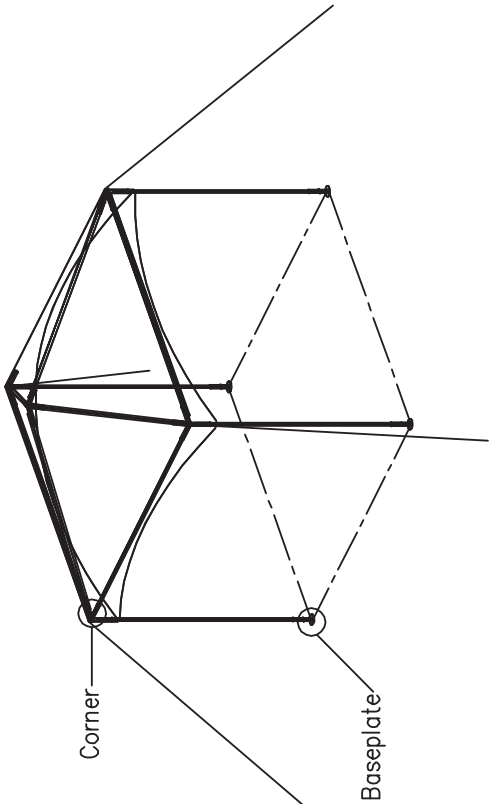


Step 28:

Tension the tent top. At each leg you will need to apply tension down to the base plate to ensure the proper fit and performance. Each tent top section ends with a 2" D-Ring and a 1/4" braided rope extends out from the valance hem. The round ring on the end of this rope MUST be passed through the D-Ring on the adjoining fabric section and then down toward the base plate. Use the included 1" tensioning ratchets to "hook" both of the round rings of the adjoining sections and tension toward the base plate.



REV		DRAWING NUMBER		DATE		CHECKED		DRAWN		ENGINEER		PART DESCRIPTION		CODE		SIZE		FRAME		FRAME	
0				06/28/06		-		CM		KT		FRAME		A-1010		- FRAME		0		0	
 <p>490 ALASKA AVE. TORRANCE, CA 90503 (800) 228-3687 - FAX (310) 381-0722</p>												<p>STANDARD</p> <p>FRAME TENT / STANDARD</p> <p>10' x 10' x 10' L</p>									
<p>ALL DATA AND INFORMATION CONTAINED IN OR DISCLOSED BY THIS DOCUMENT IS CONFIDENTIAL AND PROPRIETARY INFORMATION OF AZTEC TENTS AND ALL RIGHTS THEREIN ARE EXPRESSLY RESERVED. BY ACCEPTING THIS MATERIAL THE RECIPIENT AGREES THAT THIS MATERIAL AND INFORMATION CONTAINED HEREIN IS HELD IN CONFIDENCE AND IN TRUST AND WILL NOT BE COPIED, REPRODUCED WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS, EXCEPT TO MEET THE SPECIFIC PURPOSE FOR WHICH IT WAS DELIVERED.</p>																					



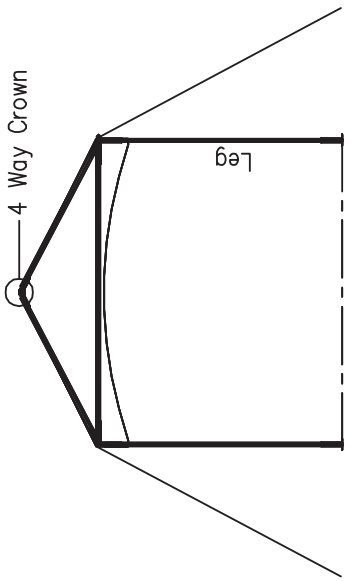
ISOMETRIC VIEW

- PIPE: 2"
 (4) 6'-8" / 7'-8" / 9'-4" LEGS
 (4) 6'-10" HIP RAFTER
 (4) 9'-4" WHITE SPREADER

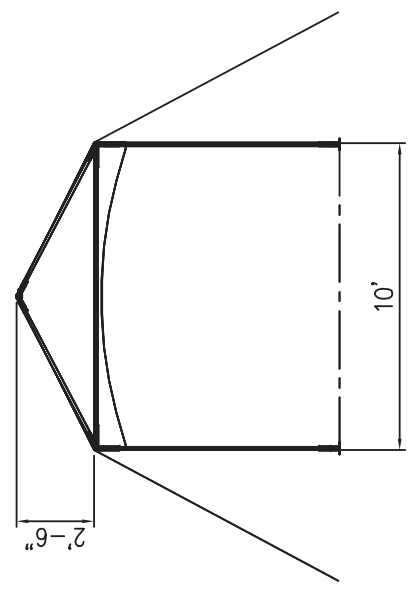
10' x 10' FRAME TENT

- FITTINGS:
 (4) CORNER
 (1) 4 WAY CROWN
- EXPANDABLE:
 (2) 3 WAY CROWNS
- OPTIONS:
 (24) ASSEMBLY PINS
 (4) STAKES
 (4) ROPES
 (4) BASEPLATES

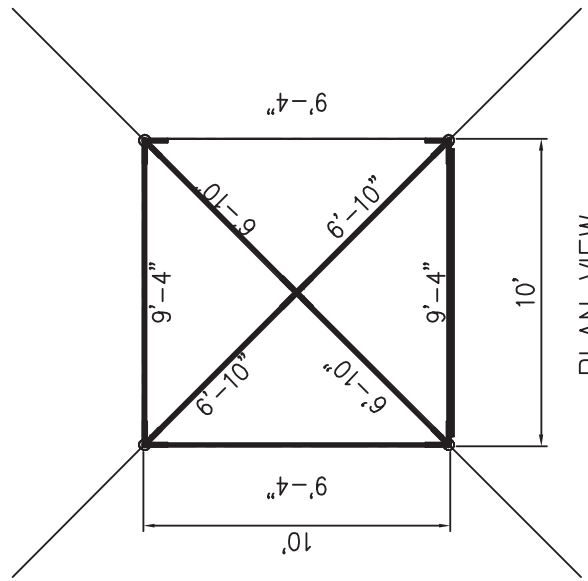
- QWIK TOP OPTIONS:
 (4) RATCHET TENSIONERS
 (4) QWIK BASEPLATES




SIDE VIEW

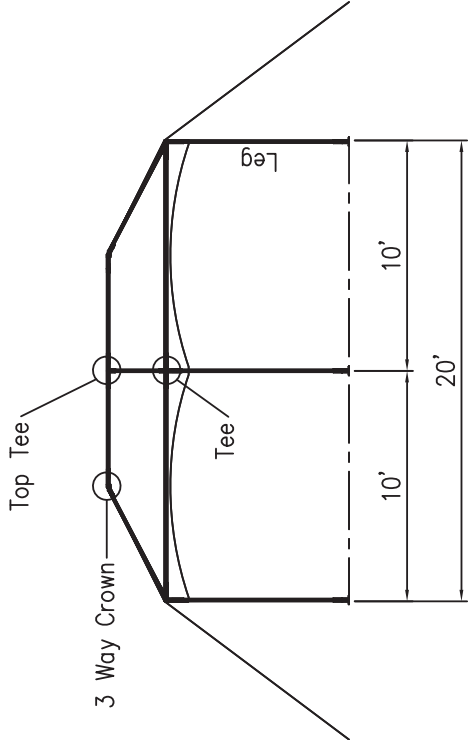


END VIEW

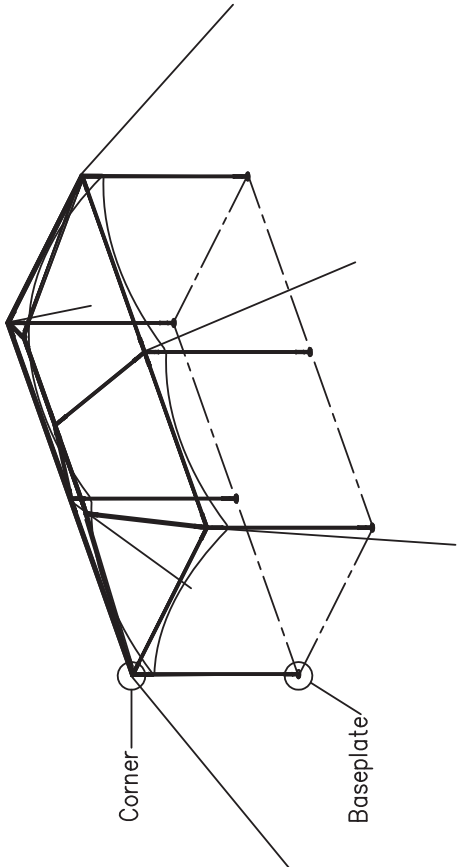


PLAN VIEW

REV		DRAWING NUMBER		PART DESCRIPTION		CODE		SIZE		DATE		CHECKED		ENGINEER		DRAWN		DATE		PROJECT	
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<p>ALL DATA AND INFORMATION CONTAINED IN OR DISCLOSED BY THIS DOCUMENT IS CONFIDENTIAL AND PROPRIETARY. THE RECIPIENT AGREES THAT THIS MATERIAL AND INFORMATION ARE EXPRESSLY RESERVED. BY ACCEPTING THIS MATERIAL AND INFORMATION OF AZTEC TENTS AND ALL RIGHTS THEREIN CONTAINED HEREIN IS HELD IN CONFIDENCE AND IN TRUST FOR THE EXCLUSIVE USE OF THE PARTY PROVIDING THE SAME. THIS DOCUMENT IS NOT TO BE COPIED, REPRODUCED WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS, EXCEPT TO MEET THE SPECIFIC PURPOSE FOR WHICH IT WAS DELIVERED.</p>																					
<p>2665 COLUMBIA ST. TORRANCE, CA 90503 (800) 228-3687 - FAX (310) 381-0722</p> 																					



SIDE VIEW



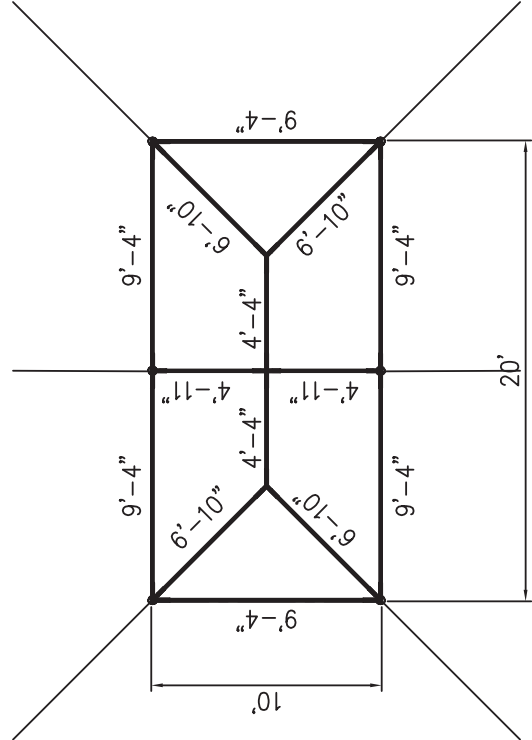
ISOMETRIC VIEW

10' x 20' FRAME TENT

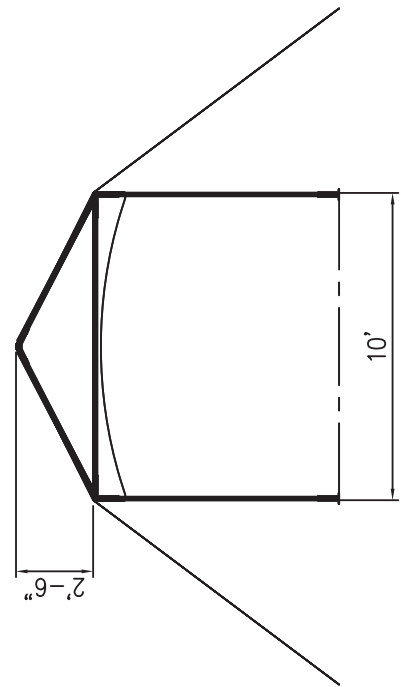
- PIPE: 2"
- (6) 6'-8" / 7'-8" / 9'-4" LEGS
 - (4) 6'-10" HIP RAFTER
 - (2) 4'-4" SPREADER
 - (2) 4'-11" RAFTER
 - (6) 9'-4" SPREADER

- FITTINGS:
- (4) CORNER
 - (2) 3 WAY CROWN
 - (1) TOP TEE
 - (2) TEE


- QWIK TOP OPTIONS:
- (36) ASSEMBLY PINS
 - (6) RATCHET TENSIONERS
 - (6) QWIK BASEPLATES
 - (6) STAKES

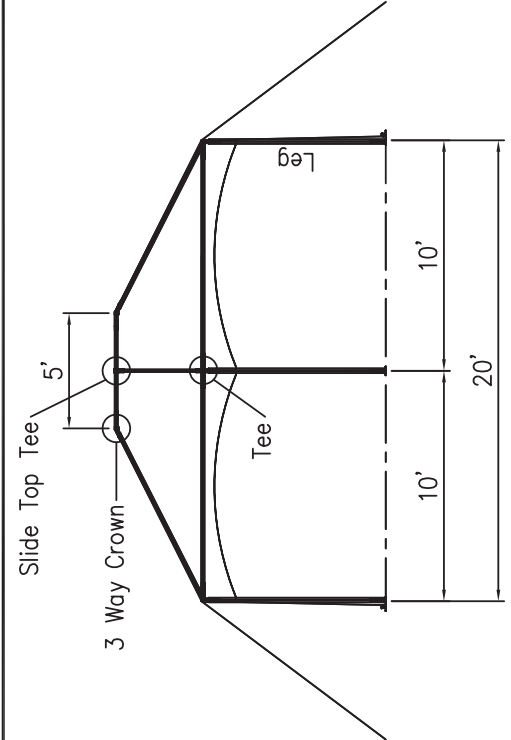


PLAN VIEW

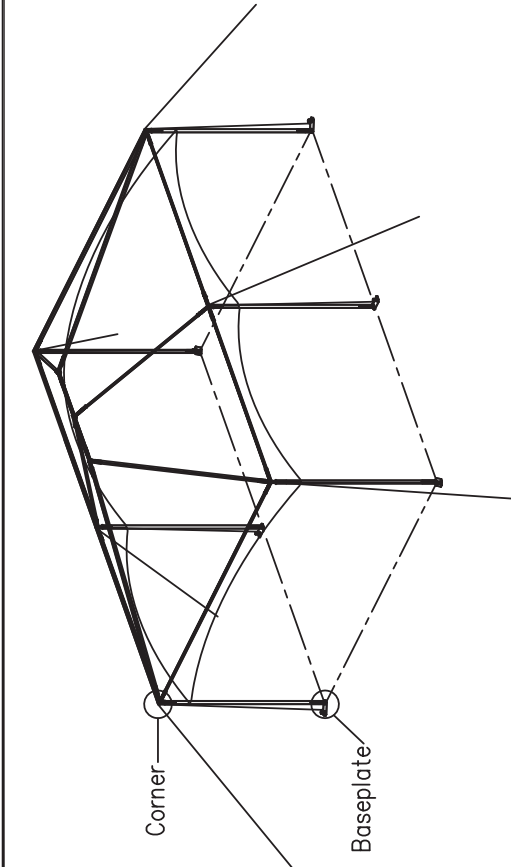


END VIEW

REV		DRAWING NUMBER		PART DESCRIPTION		CODE		SIZE		FRAME		DATE		CHECKED		ENGINEER		DRAWN		KT	
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FRAME TENTS\DIAGRAMS\15x20-10 QWIK 062509 1735 ALL DATA AND INFORMATION CONTAINED IN OR DISCLOSED INFORMATION OF AZTEC TENTS AND ALL RIGHTS THEREIN ARE EXPRESSLY RESERVED. BY ACCEPTING THIS MATERIAL CONTAINED HEREIN IS HELD IN CONFIDENCE AND IN TRUST THE RECIPIENT AGREES THAT THIS MATERIAL AND INFORMATION AND WILL NOT BE COPIED, REPRODUCED WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS, EXCEPT TO MEET THE SPECIFIC PURPOSE FOR WHICH IT WAS DELIVERED.																					
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FRAME TENT / STANDARD 15' W x 20' L x 10' LEG SPACING STANDARD																					



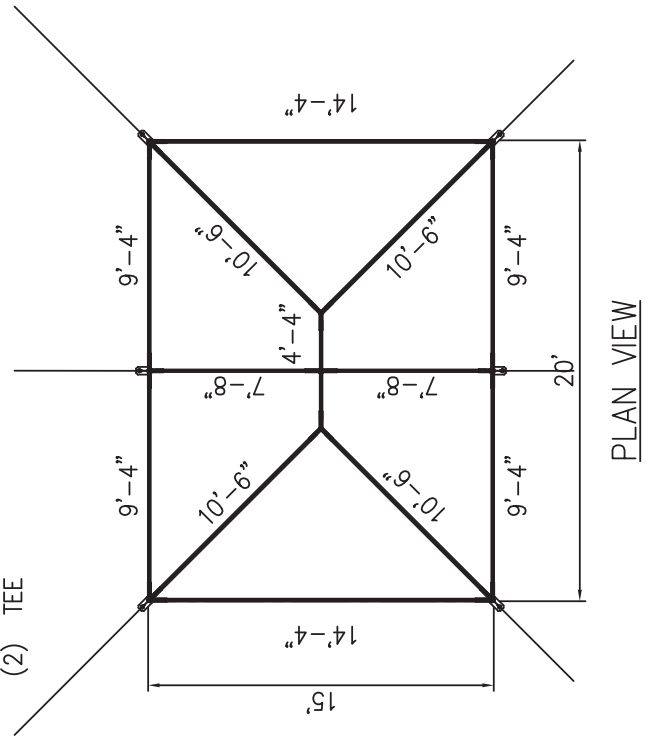
SIDE VIEW



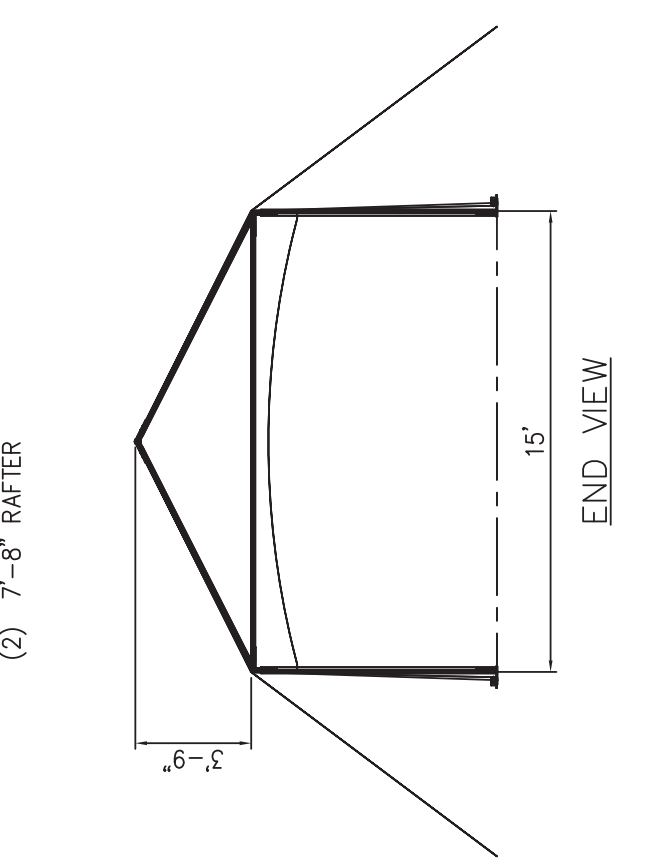
ISOMETRIC VIEW

15' x 20' FRAME TENT

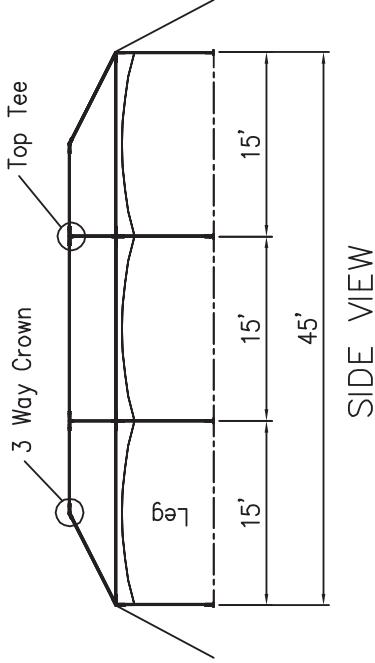
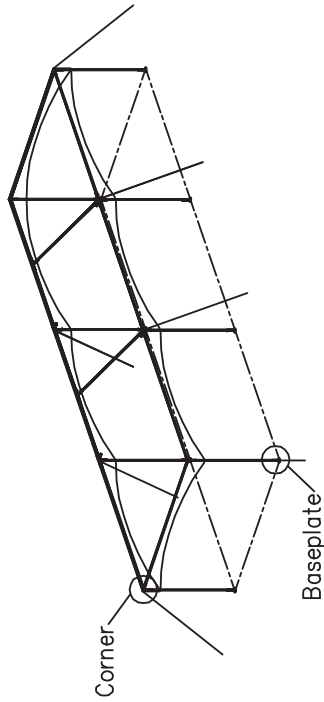
- PIPE: 2"
- (6) 6'-8" / 7'-8" / 9'-4" LEGS
 - (4) 10'-6" HIP RAFTER
 - (1) 4'-4" SPREADER
 - (2) 7'-8" RAFTER
- PIPE: 2"
- (4) 9'-4" SPREADER
 - (2) 14'-4" SPREADER
- FITTINGS:
- (4) CORNER
 - (2) 3 WAY CROWN
 - (1) SLIDE TOP TEE
 - (2) TEE
 - (38) ASSEMBLY PINS
 - (6) RATCHET TENSIONERS
 - (6) QWIK BASEPLATES



PLAN VIEW



END VIEW



SIDE VIEW

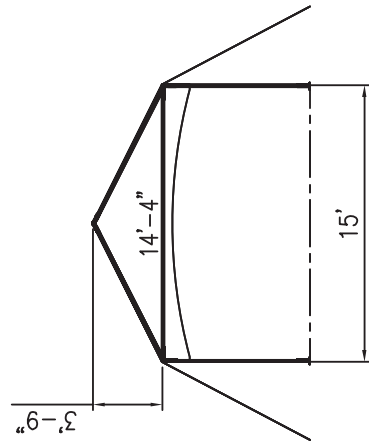
15' x 45' FRAME TENT

- PIPE: 2"
 (8) 6'-8" / 7'-8" / 9'-4" LEGS
 (4) 10'-6" HIP RAFTER
 (2) 6'-10" SPREADER
 (4) 7'-8" RAFTER
 (9) 14'-4" SPREADER

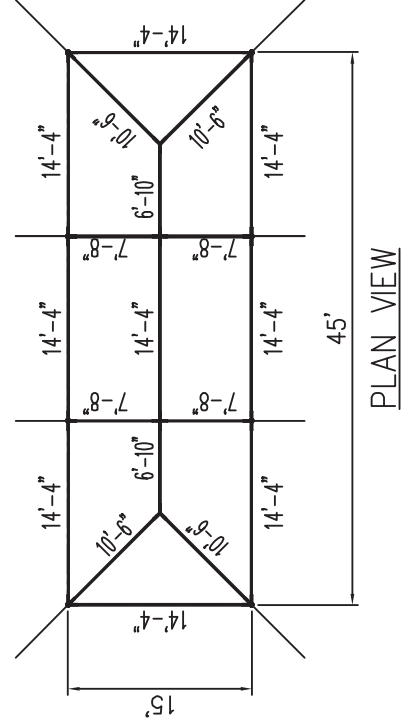
- FITTINGS:
 (4) CORNER
 (2) 3 WAY CROWN
 (2) TOP TEE
 (4) TEE

- QWIK TOP OPTIONS:
 (8) STAKES
 (8) RATCHET TENSIONERS
 (8) QWIK BASEPLATES
 (54) ASSEMBLY PINS

- FABRIC:
 (1) 15'x30' 2PC. END
 (1) 15'x15' MIDDLES



END VIEW

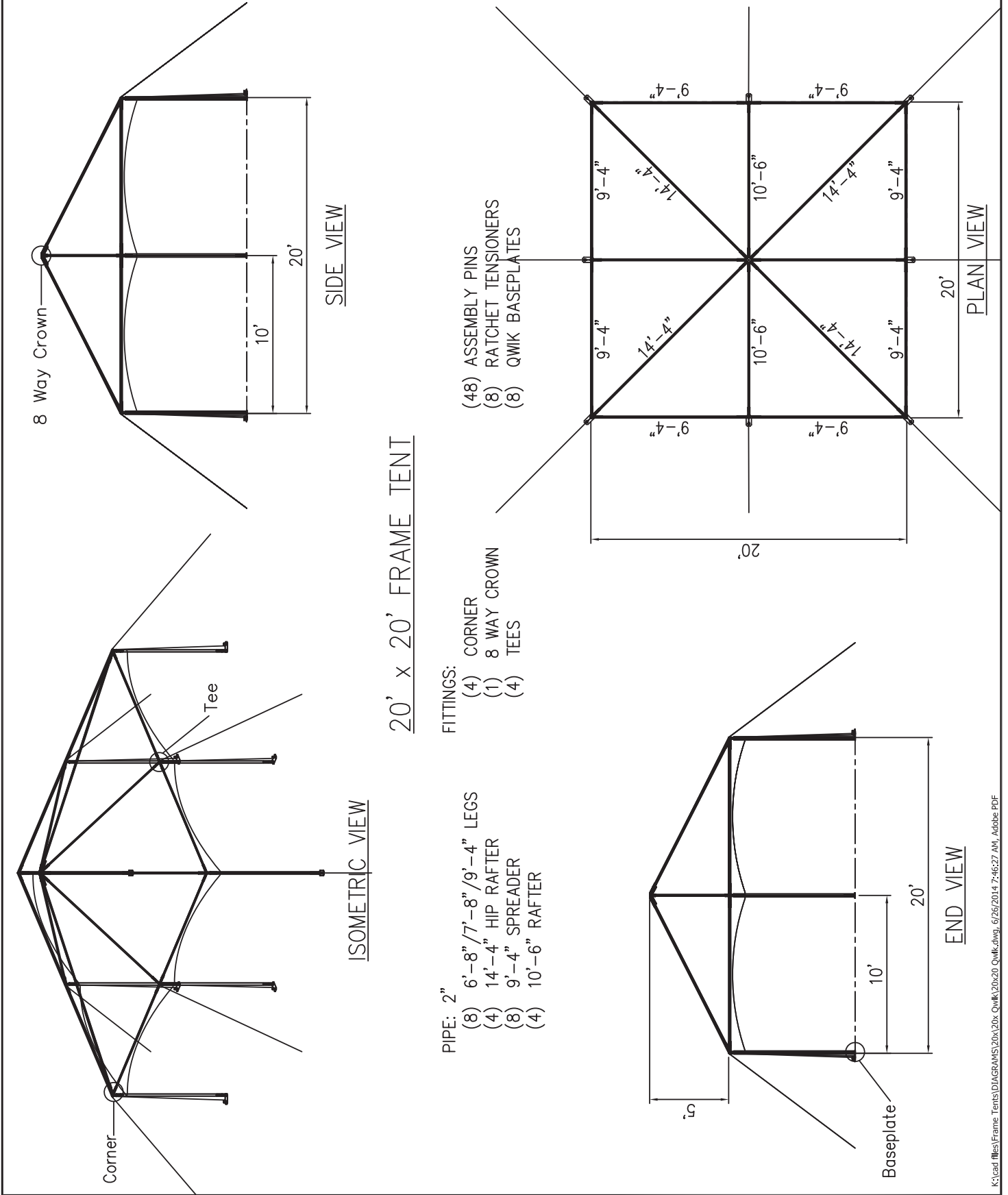


PLAN VIEW

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PART DESCRIPTION FRAME TENT / STANDARD	CODE AZ-1545-FRAME	DRAWING NUMBER 0	SIZE 15' W x 45' L x 15' MIDDLES	REV 0



DATE	06/25/09	ENGINEER	CM	CHECKED	-	FRAME TENTS \ DIAGRAMS \ 20' x 20' QWIK
DRAWN	KT	2665 COLUMBIA ST TORRANCE, CA 90503	KT	06/25/09	0	062509 1755
PART DESCRIPTION		FRAME		A 2020 - FRAME		
CODE		FRAME TENT / STANDARD		20' W x 20' L x 10' LEG SPACING		
SIZE		DRAWING NUMBER		REV		
DRAWING NUMBER		0		0		



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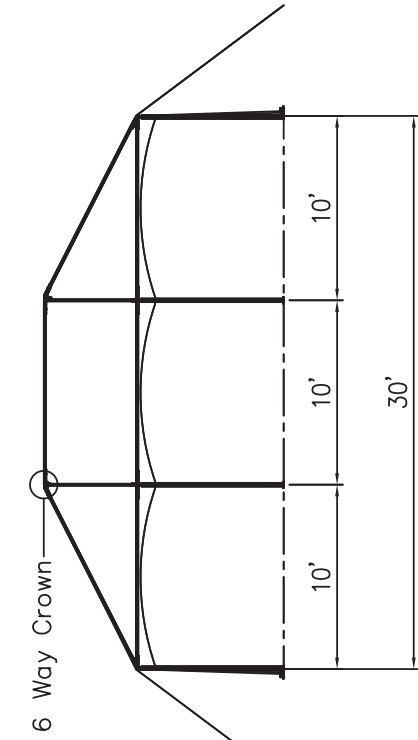


REV		DRAWING NUMBER		PART DESCRIPTION		CODE		SIZE		DATE		CHECKED		ENGINEER		DRAWN		KT		DATE		07/20/07		FRAME		A2030 - FRAME		0	
				FRAME TENT / STANDARD		20' W X 30' L				07/20/07		CM		KT		KT		KT		KT		KT		KT		KT		KT	

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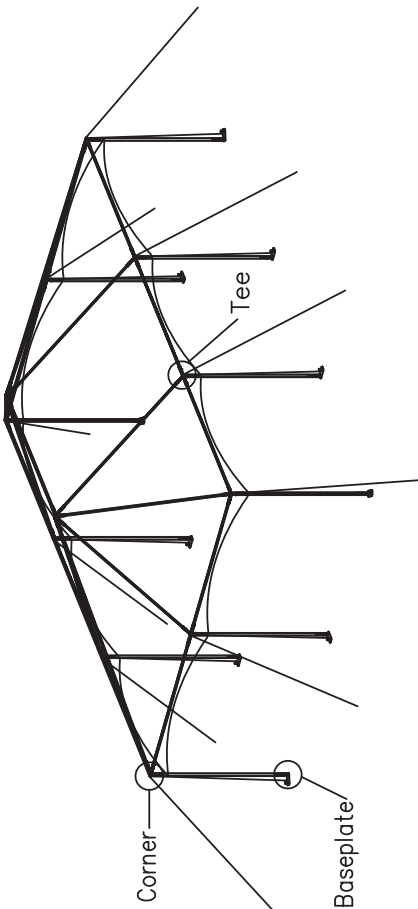
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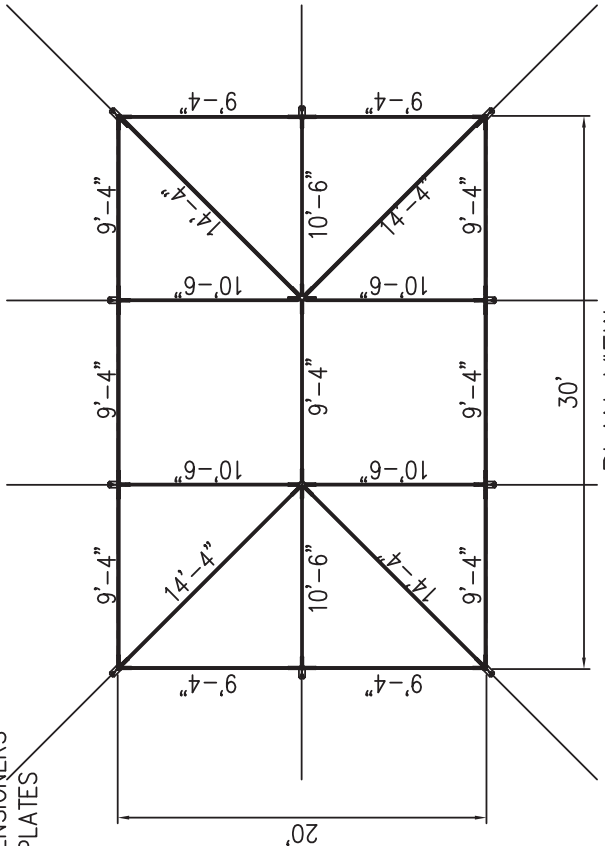
SIDE VIEW

20' x 30' FRAME TENT

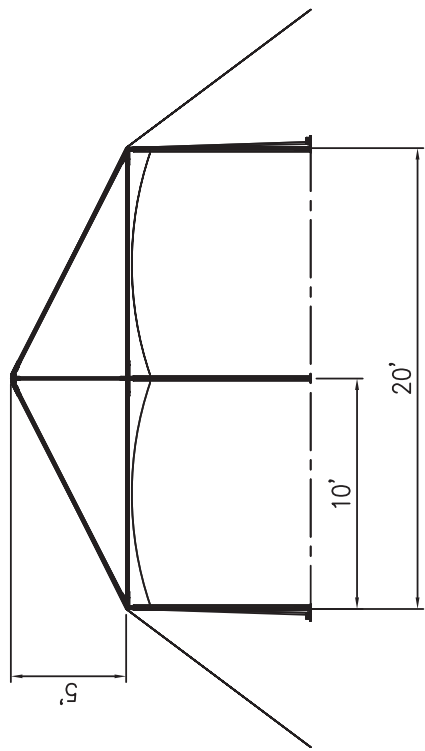
- PIPE: 2"
- (10) 6'-8"/7'-8"/9'-4" LEGS
- (4) 14'-4" HIP RAFTER
- (11) 9'-4" SPREADER
- (6) 10'-6" RAFTER
- FITTINGS:
- (4) CORNER
- (2) 6 WAY CROWN
- (6) TEES
- (10) RATCHET TENSIONERS
- (10) QWIK BASEPLATES
- OPTIONS:
- (62) ASSEMBLY PINS
- (10) STAKES
- FABRIC: QWIK TOP
- (1) 15'x30' 1PC TOP



ISOMETRIC VIEW



PLAN VIEW



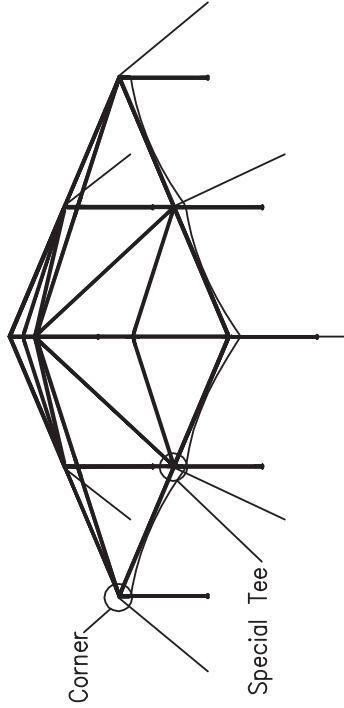
END VIEW

REV	0	DRAMA NUMBER		DATE	02/03/09	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\30x30 QWIK\30x30 QWIK 020309 1615
PART DESCRIPTION			FRAME	DATE	02/03/09	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\30x30 QWIK\30x30 QWIK 020309 1615
SIZE			AZ-3030-FRAME	DATE	02/03/09	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\30x30 QWIK\30x30 QWIK 020309 1615
DRAWING NUMBER			0	DATE	02/03/09	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\30x30 QWIK\30x30 QWIK 020309 1615

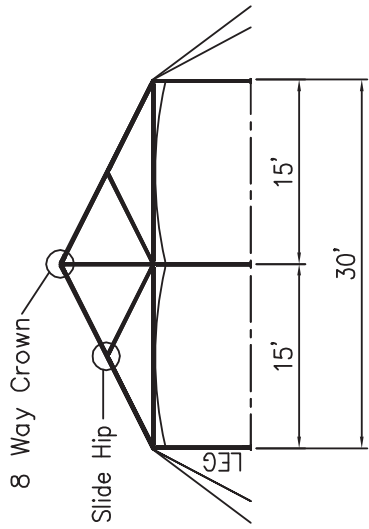
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AZTEC

STANDARD
 FRAME TENT / STANDARD
 30' W x 30' L QWIK TOP



ISOMETRIC VIEW

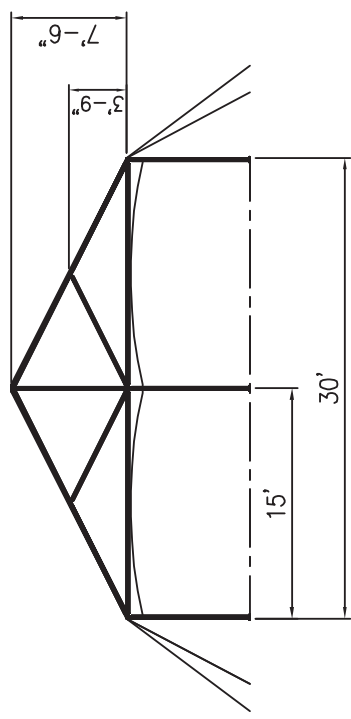


SIDE VIEW

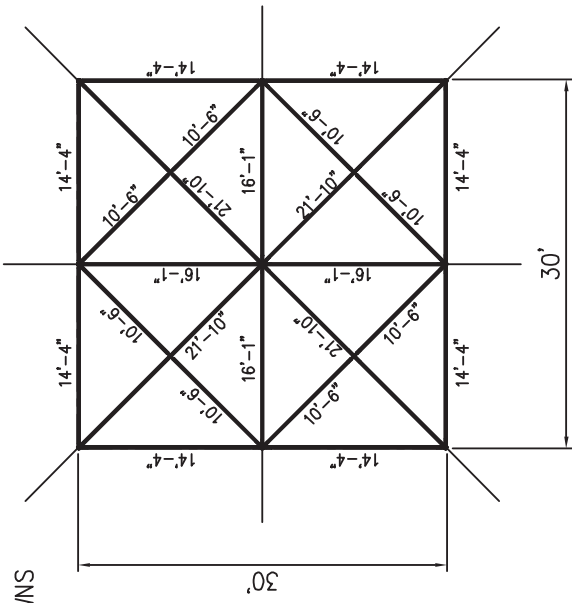
30' x 30' FRAME TENT

- PIPE: 2"
- (8) 6'-8" / 7'-8" / 9'-4" LEGS
 - (8) 14'-4" SPREADER
 - (8) 10'-6" RAFTER
 - (4) 16'-1" RAFTER
 - (4) 21'-10" HIP RAFTER
- FITTINGS:
- (4) CORNER
 - (1) 8 WAY CROWN
 - (4) SPECIAL TEES
 - (4) SLIDE HIP
 - (1) 30' FRAME CABLE
 - (2) 6 WAY CROWNS
- EXPANDABLE:
- (2) 6 WAY CROWNS

- OPTIONS:
- (64) ASSEMBLY PINS
 - (8) STAKES
 - (8) ROPES
 - (8) QWIK BASEPLATES
 - (8) RATCHET TENSIONERS

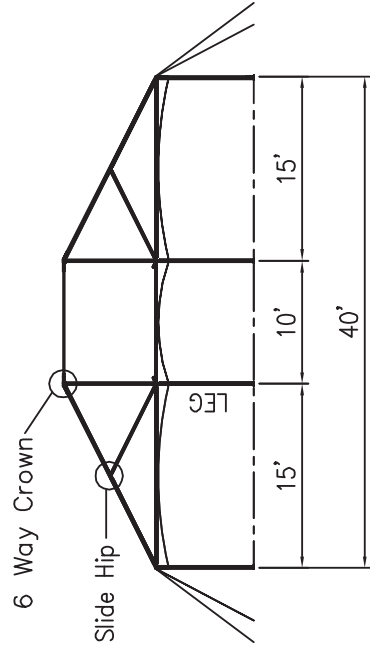


END VIEW



PLAN VIEW

FRAME TENTS\DIAGRAMS\30x30x QWIK\30x40 QWIK 111009 1340		CHECKED	-	DATE	07/12/06
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2655 COLUMBIA ST. TORRANCE, CA 90503 (800) 228-3687 - FAX (310) 381-0722		AZTEC			
FRAME TENT / STANDARD		PART DESCRIPTION		CODE	SIZE
STANDARD		FRAME		AZ-3040-FRAME	3
DRAWING NUMBER		REV			

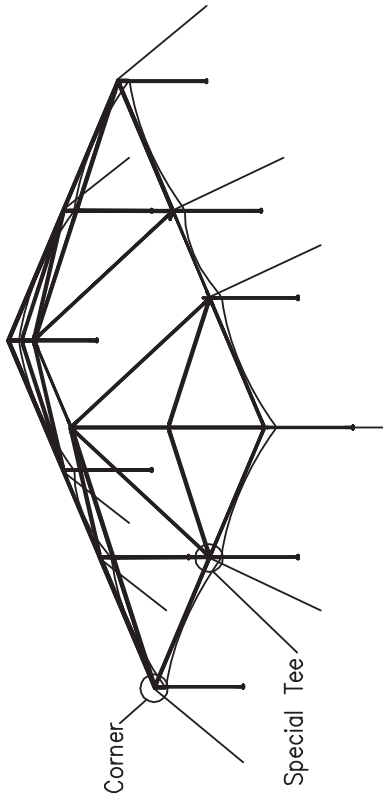


SIDE VIEW

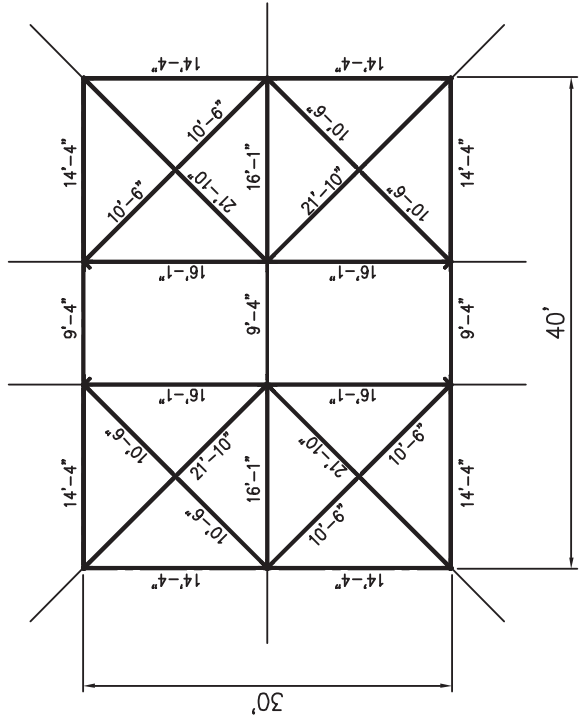
30' x 40' FRAME TENT

- PIPE: 2"**
- (10) 6'-8" / 7'-8" / 9'-4" LEGS
 - (3) 9'-4" SPREADER
 - (8) 14'-4" SPREADER
 - (8) 10'-6" RAFTER
 - (6) 16'-1" RAFTER
 - (4) 21'-10" HIP RAFTER
- FITTINGS:**
- (4) CORNER
 - (2) 6 WAY CROWN
 - (6) SPECIAL TEES
 - (4) SLIDE HIP
 - (2) 30' FRAME CABLE

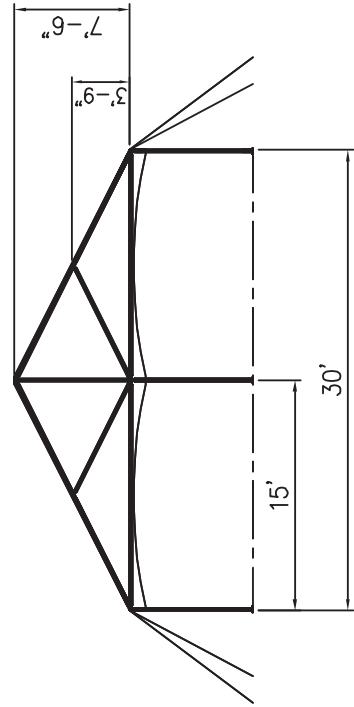
- OPTIONS:**
- (78) ASSEMBLY PINS
 - (10) STAKES
 - (10) RATCHET TENSIONERS
 - (10) QWIK BASEPLATES



ISOMETRIC VIEW

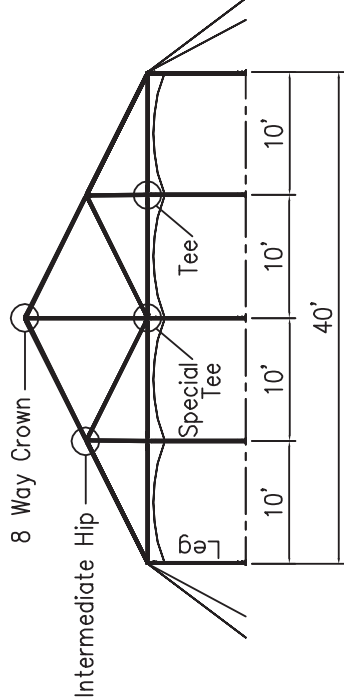


PLAN VIEW

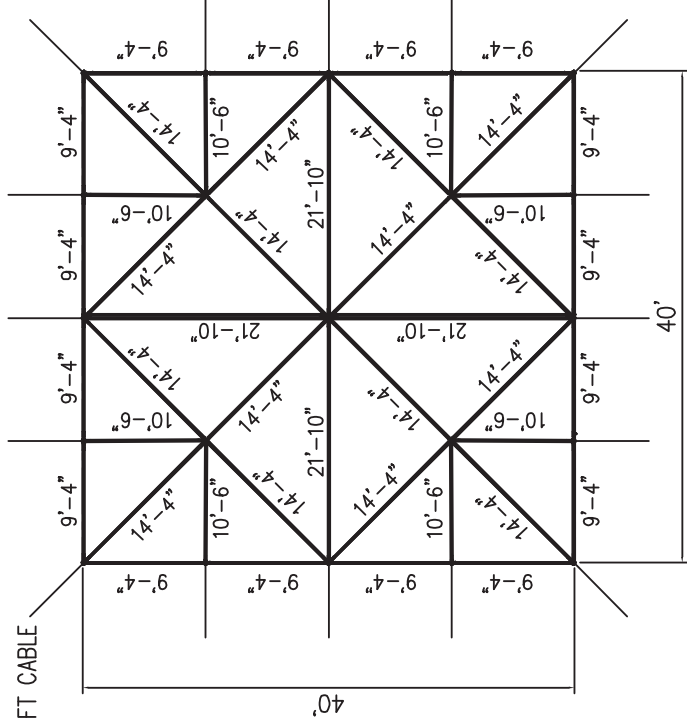


END VIEW

REV		DRAWING NUMBER		DATE		CHECKED		ENGINEER		DRAWN		PART DESCRIPTION		CODE		SIZE	
1		FRAME		07/12/06		-		CM		KT		QWIK FRAME TENT / STANDARD		40' W X 40' L		FRAME	
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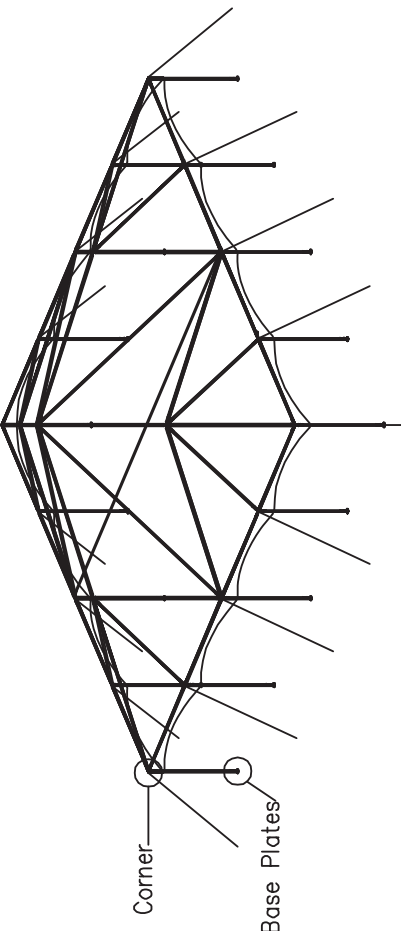
SIDE VIEW



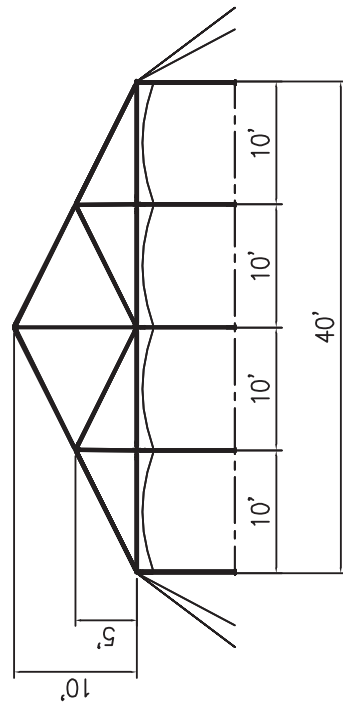
PLAN VIEW

40' x 40' QWIK FRAME TENT

- PIPE:** 2"
 (16) 6'-8" / 7'-8" / 9'-4" LEGS
 (16) 9'-4" SPREADER
 (8) 10'-6" INTERMEDIATE HIP
 (16) 14'-4" INT HIP
 (4) 21'-10" RAFTER
- FITTINGS:**
 (4) CORNER
 (1) 8 WAY CROWN
 (8) TEE
 (4) SPECIAL TEE
 (4) INTERMEDIATE HIP
 (1) 1/4" x 40' AIRCRAFT CABLE
- EXPANDABLE:**
 (2) 6 WAY CROWNS
- (120) ASSEMBLY PINS
 (16) 1" x 42" STAKES
 (16) RATCHET TENSIONERS
 (16) QWIK BASEPLATES

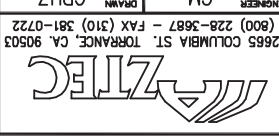


ISOMETRIC VIEW

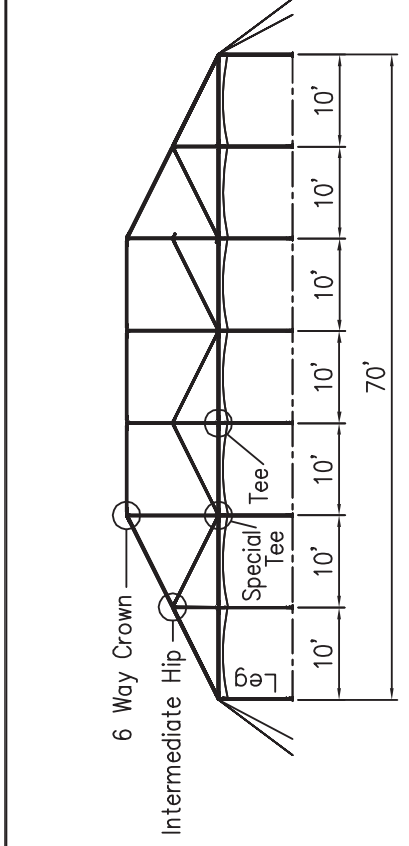


END VIEW

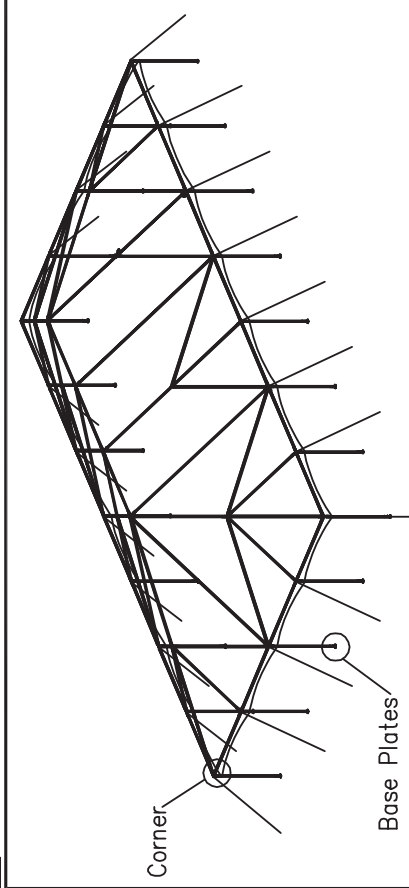
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DRAWING NUMBER		DATE	1/5/11	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\40x40x70 021607 1800
SIZE		DATE	1/5/11	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\40x40x70 021607 1800
CODE		DATE	1/5/11	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\40x40x70 021607 1800
PART DESCRIPTION	QWIKTOP FRAME TENT / STANDARD	DATE	1/5/11	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\40x40x70 021607 1800
DESCRIPTION	QWIKTOP FRAME TENT / STANDARD	DATE	1/5/11	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\40x40x70 021607 1800
DESCRIPTION	QWIKTOP FRAME TENT / STANDARD	DATE	1/5/11	ENGINEER	CM	CHECKED	-	PROJECT	FRAME TENTS\DIAGRAMS\40x40x70 021607 1800



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ISOMETRIC VIEW



SIDE VIEW

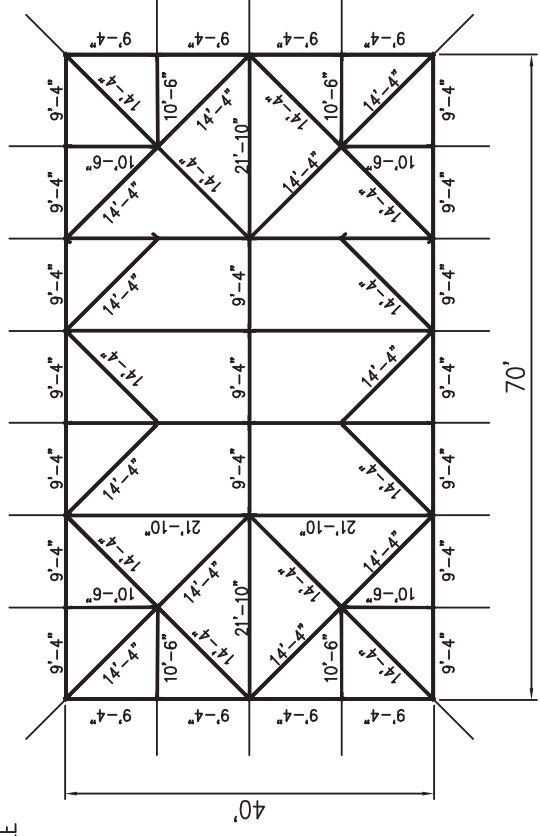
40' x 70' QWIKTOP FRAME TENT

- PIPE: 2"
 (22) 6'-8"/7'-8"/9'-4" LEGS
 (25) 9'-4" SPREADER
 (8) 10'-6" INTERMEDIATE HIP
 (22) 14'-4" INT HIP
 (10) 21'-10" RAFTER

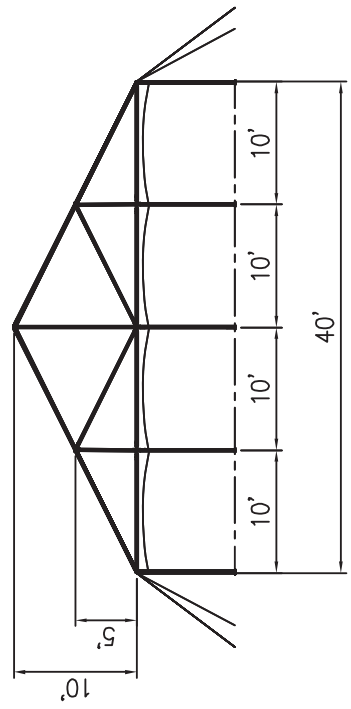
- FITTINGS:
 (4) CORNER
 (2) 6 WAY CROWN
 (2) TOP TEE
 (10) TEE
 (8) SPECIAL TEE
 (4) INTERMEDIATE HIP
 (4) SLIDE INTERMEDIATE
 (4) 40' FRAME CABLE

- OPTIONS:
 (174) ASSEMBLY PINS
 (22) STAKES
 (22) ROPES
 (22) BASEPLATES

- QWIK TOP:
 (22) RATCHET TENSIONERS
 (22) QWIK BASEPLATES



PLAN VIEW



END VIEW

Qwik-top® Frame Parts Images



20x Std. Assembly Cable



30x Std. Assembly Cable



40x Std. Assembly Cable



Gable Corner Right



Gable Corner Left



Gable Crown 3pt



Gable Crown 4pt



2" Slide Fitting "Add Leg"



Qwik Corner



3Way Crown



4Way Crown



6Way Crown



8Way Crown



Hip Intermediate- 40x



Hip Slide Intermediate 30x



Rafter Slide Intermediate- 40x



SlideTop Tee- 2"



Special Side Tee



Side Tee



Gable Tee Fitting

Qwik-top® Frame Parts Images



Top Tee



Acadapin/Assembly Pin



Jumbo Pin



2' Adjustable Qwik Baseplate



Standard Baseplate



Standard Baseplate 2' Adjustable



Qwik Footplate



1/2" Polopro x 18' Rope



2" Slide Bally Corner Fitting



2" Round Tubing Extrusion

Qwik-top® Frame Engineering Specifications

Design Criteria: 10' wide -20' wide Systems
Code: ASCE 7-10, 2012 IFC, 2012 IBC
Wind Speed: 105MPH 3-Second Gust Exposure C
Mean Recurrence Interval (MRI): 7.5 Years

Design Criteria: 30' wide Systems
Code: ASCE 7-10, 2012 IFC, 2012 IBC
Wind Speed: 50MPH 3-Second Gust Exposure C
Mean Recurrence Interval (MRI): 7.5 Years

Design Criteria: 40' wide Systems
Code: ASCE 7-10, 2012 IFC, 2012 IBC
Wind Speed: 40MPH 3-Second Gust Exposure C
Mean Recurrence Interval (MRI): 7.5 Years



Notes:
External Guys to be installed at 45 degree from horizontal
Tent not to be located near abrupt changes in topography

Maximum 40lb hanging load from each crown. Soil conditions will vary from site to site. The included anchoring package for this tent may need to be supplemented with additional or alternate anchoring to meet the loads below. The below chart lists the required resistance loads that must be supported by the anchoring system to meet the engineering loads specified under the code.

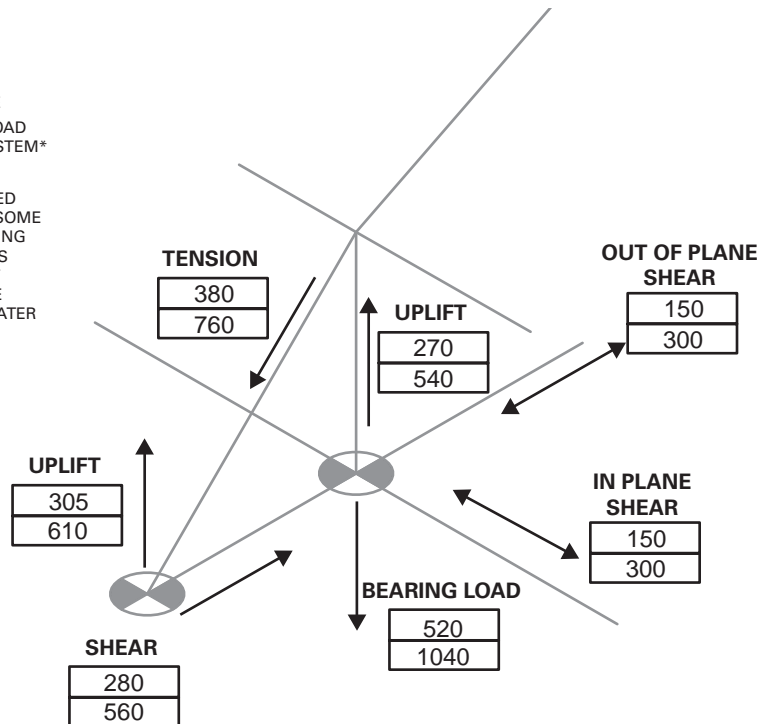
A Factor of Safety of 2.0 times the design load has been used for the pull out tension in lbs that the anchoring devices must resist in the direction of the load. Ensure that the anchors installed are adequate to resist pull out loads show on the diagram. Actual testing of some individual anchors to 75% of the anchor pull-out load is recommended.

Qwik-top® Frame Load Summary- 10', 15', and 20' Width

SAMPLE

	ACTUAL LOAD VALUE
	MINIMUM DESIGN LOAD FOR ANCHORING SYSTEM*

* MINIMUM DESIGN LOAD FOR ANCHORING SYSTEM IS CALCULATED USING A FACTOR OF SAFETY = 2.0. SOME FIXED MECHANICAL ANCHORS HAVING ULTIMATE LOADS IN EXCESS OF THIS SPECIFIED LOAD CAN BE USED, BUT THOSE ANCHORS MUST ALSO HAVE ALLOWABLE/WORKING LOADS GREATER THAN ACTUAL LOAD VALUE.

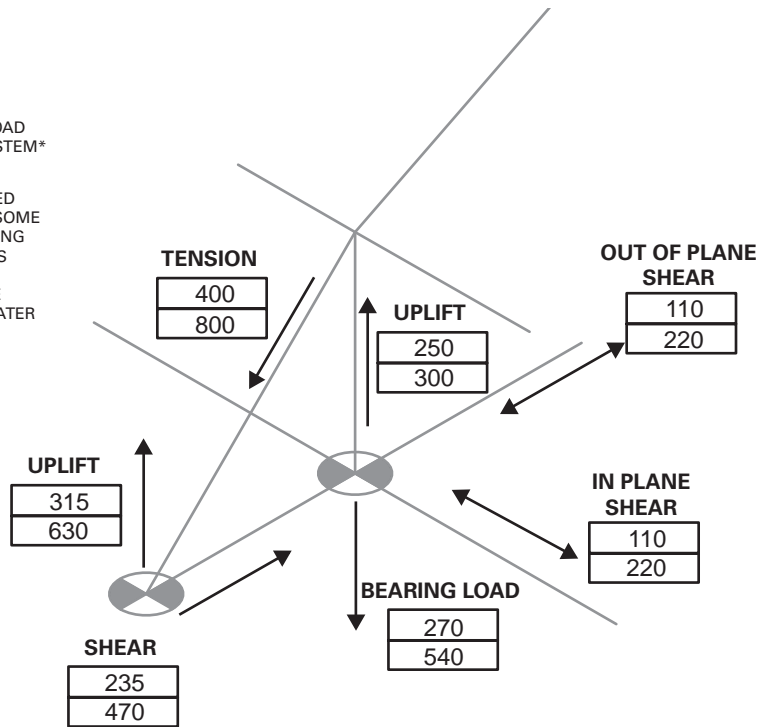


Qwik-top® Frame Load Summary- 30' Width

SAMPLE

	ACTUAL LOAD VALUE
	MINIMUM DESIGN LOAD FOR ANCHORING SYSTEM*

* MINIMUM DESIGN LOAD FOR ANCHORING SYSTEM IS CALCULATED USING A FACTOR OF SAFETY = 2.0. SOME FIXED MECHANICAL ANCHORS HAVING ULTIMATE LOADS IN EXCESS OF THIS SPECIFIED LOAD CAN BE USED, BUT THOSE ANCHORS MUST ALSO HAVE ALLOWABLE/WORKING LOADS GREATER THAN ACTUAL LOAD VALUE.

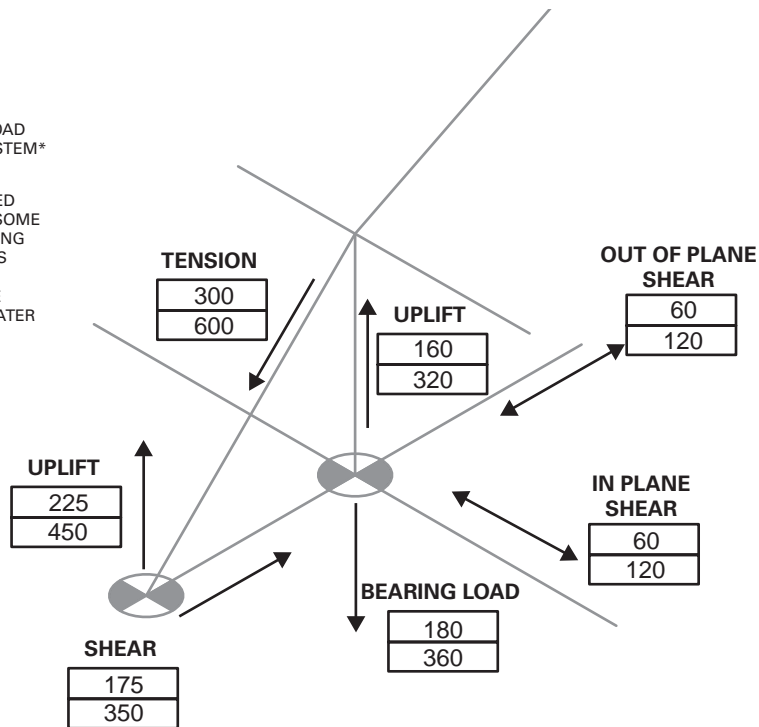


Qwik-top® Frame Load Summary- 40' Width

SAMPLE

	ACTUAL LOAD VALUE
	MINIMUM DESIGN LOAD FOR ANCHORING SYSTEM*

* MINIMUM DESIGN LOAD FOR ANCHORING SYSTEM IS CALCULATED USING A FACTOR OF SAFETY = 2.0. SOME FIXED MECHANICAL ANCHORS HAVING ULTIMATE LOADS IN EXCESS OF THIS SPECIFIED LOAD CAN BE USED, BUT THOSE ANCHORS MUST ALSO HAVE ALLOWABLE/WORKING LOADS GREATER THAN ACTUAL LOAD VALUE.



Qwik-top® Frame Components

Fittings/Components	Item Number
20x Std. Frame Assembly Cable	Z29900120
30x Std. Frame Assembly Cable	Z29900130
40x Std. Frame Assembly cable	Z29900140
Gable Corner Right	Z299F00010
Gable Corner Left	Z299F00015
Gable Crown 3PT	Z299F00020
Gable Crown 4 PT	Z299F00021
2" Slide Fitting "Add Leg"	Z299F00030
2" Slide Bally Corner Fitting	Z299F00031
Medinah Rafter Brace Fitting	Z299F00032
Qwik Corner	Z299F00040
3Way Crown	Z299F00050
4Way Crown	Z299F00060
6Way Crown	Z299F00070
8Way Crown	Z299F00080
Hip Intermediate -40X	Z299F00090
Hip Slide Intermediate- 30X	Z299F00100
Rafter Slide Intermediate 40X	Z299F00110
SlideTop Tee- 2" (Red)	Z299F00120
Special SideTee	Z299F00130
Side Tee	Z299F00140
Gable Tee Fitting	Z299F00145
Top Tee (Red)	Z299F00150
Acadapin/Assembly Pin	Z299F00160
Jumbo Pin	Z299F00170
2' Adjustable Qwik Baseplate	Z299F00180
Standard Baseplate	Z299F00190
Standard Baseplate 2' adjustab	Z299F00195
Qwik Footplate	Z299F00200
1/2" Polypro x 18' Rope-Tape E	Z299F00220

Aluminum Beams	Item Number
1' -10" x 2" Pipe	Z299P20110
2' -8" x 2" Pipe	Z299P20208
3' 4" - 2" Pipe	Z299P20304
3' 10" - 2" Pipe	Z299P20310
4' 4" - 2" Pipe	Z299P20404
4' 6" - 2" Pipe	Z299P20406
4' 11" - 2" Pipe	Z299P20411
5' 2" - 2" Pipe	Z299P20502
5' 4" - 2" Pipe	Z299P20504
6' 0.5" - 2" Pipe	Z299P2060.5
2" x 6' 0" Pipe	Z299P20600
6' 8" - 2" Pipe	Z299P20608
6' 10" - 2" Pipe	Z299P20610
7' 4" - 2" Pipe	Z299P20704
7' 8" - 2" Pipe	Z299P20708
8' 4" - 2" Pipe	Z299P20804
9' 4" - 2" Pipe	Z299P20904
9'-11.25" - 2" Pipe	Z299P20911.25
10' 6" - 2" Pipe	Z299P21006
11' 4" - 2" Pipe	Z299P21104
11' 10" - 2" Pipe	Z299P21110
12' 10" - 2" Pipe	Z299P21210
13' 3 1/2" - 2" Pipe	Z299P21303.5
14' 4" - 2" Pipe	Z299P21404
16' 1" - 2" Pipe	Z299P21601
18' 1" - 2" Pipe	Z299P21801
19' 4" - 2" Pipe	Z299P21904
21' 10" - 2" Pipe	Z299P22110

Tent Jacks	Item Number
Std. Rolling Canopy Jack 10'-10"	Z51400010
Ext. Rolling Canopy Jack 13'-8"	Z51400020
Canopy Jack Strap & Hook - Black	Z51400030
Replacement Winch Only	Z51400065

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