



ClearSpan™ Carport
12' Wide with Polycarbonate Roof Panels



Photo may show a different but similar model.

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STK#	DIMENSIONS
105505	12' W x 12' L
105506	12' W x 16' L
105507	12' W x 20' L
105508	12' W x 24' L



YOU MUST READ THIS DOCUMENT BEFORE YOU BEGIN TO ASSEMBLE THE SHELTER.

Thank you for purchasing this ClearSpan™ shelter. When properly assembled and maintained, this product will provide years of reliable service. These instructions include helpful hints and important information needed to safely assemble and properly maintain the shelter. Please read these instructions **before** you begin.

If you have any questions during the assembly, contact Customer Service for assistance.

SAFETY PRECAUTIONS

- Wear eye protection.
- Wear head protection.
- Wear gloves when handling metal tubes.
- Use a portable GFCI (Ground Fault Circuit Interrupter) when working with power tools and cords.
- Do not climb on the shelter or framing during or after construction.
- Do not occupy the shelter during high winds, tornadoes, or hurricanes.
- Provide adequate ventilation if the structure is enclosed.
- Do not store hazardous materials in the shelter.
- Provide proper ingress and egress to prevent entrapment.

ANCHORING INSTRUCTIONS

Prior to assembling this shelter, please read the **MUST READ** document included with the shipment.

⚠ WARNING: The anchor assembly is an integral part of the shelter construction. Improper anchoring may cause shelter instability and failure of the structure. Failing to anchor the shelter properly *will void the manufacturer's warranty* and may cause serious injury and damage.

LOCATION

Choosing the proper location is an important step before you begin to assemble the structure.

The following suggestions and precautions will help you determine whether your selected location is the best location.

- Never erect the structure under power lines.
- Identify whether underground cables and pipes are present *before* preparing the site or anchoring the structure.
- Location should be away from structures that could cause snow to drift on or around the building.
- Do not position the shelter where large loads such as snow and ice, large tree branches, or other overhead obstacles could fall.

SITE

After choosing a location, proper preparation of the site is essential. The following site characteristics will help ensure the integrity of the structure.

- A level site is required. The site must be level to properly and safely erect and anchor the structure. If the site is not level, construct footings to provide a secure base to assemble the structure. Pre-cast concrete blocks, pressure-treated wood posts, or poured footings are all acceptable when properly used.
- Drainage: Water draining off the structure and from areas surrounding the site should drain away from the site to prevent damage to the site, the structure, and contents of the structure.

⚠ WARNING: The individuals assembling this structure are responsible for designing and furnishing all temporary bracing, shoring and support needed during the assembly process. For safety reasons, those who are not familiar with recognized construction methods and techniques must seek the help of a qualified contractor.

ASSEMBLY PROCEDURE

Following the instructions as presented will help ensure the proper assembly of your shelter. Failing to follow these steps may result in an improperly assembled and anchored shelter and will void all warranty and protection the owner is entitled.

The steps outlining the assembly process are as follows:

1. Verify that all parts are included in the shipment. Notify Customer Service for questions or concerns.
2. Read these instructions, the Must Read document, and all additional documentation included with the shipment **before** you begin assembling the shelter.
3. Gather the tools, bracing, ladders (and lifts), and assistance needed to assemble the shelter.
4. Check the weather **before** you install the roof cover and any panels (if equipped). Do not install covers or panels on a windy or stormy day.
5. Re-evaluate the location and site based on the information and precautions presented in the documentation included with the shipment.
6. Lay out the site (if this has not been completed).
7. Assemble the frame components in the order they are presented in these instructions.
8. Assemble the frame including the struts (if equipped).
9. Consult the Must Read document for anchoring comments and instructions.
10. Assemble and install the cable assemblies (if equipped). These are typically found on larger shelters. Your shelter may include struts or other methods of bracing attached during the frame assembly procedure. (Some shelters do not require cables or struts.)
11. Install, tighten, and secure the end panel (if equipped) and main cover. This applies to fabric covers that stretch over the frame assembly. *Your shelter may include roof panels or side panels or both.*
12. Read the Care and Maintenance information at the end of these instructions.

LIST OF WORDS AND PHRASES

Before you begin, it is important to become familiar with the words and phrases used in this instruction manual.

These words and phrases are common to most ClearSpan™ shelters and identify the different parts of the shelter. (Some are used in this document. Others may not apply to this particular shelter.)

These terms describe the shipped parts and can also be found on the materials list/spec sheets included with the shipment. To aid in the assembly, read through the following definitions before you begin to assemble your shelter.

- **Conduit:** An assembly of pipes used to secure the main cover and end panels (if equipped). Purlins and some strut assemblies also consist of connected pipes to form a conduit. Each pipe joint of a conduit assembly is secured with a self-tapping Tek screw.
- **Coupler or Fitting:** A part of the frame assembly where legs, purlins and rafter pipes are inserted and secured. In most instances, 3-way and 4-way couplers are used. In some larger applications, couplers are used to secure the joints of the different rafter sections during the assembly of the rafters. Some shelters do not use couplers.
- **Foot or Rafter Foot:** The part attached to and found at the base of the rafter or leg of the shelter. Depending on the shelter, the foot is an optional purchase. Some shelters do not offer an optional foot. Some use 1-way connectors.
- **Must Read Document:** This document includes building and shelter anchoring instructions, steps for end wall reinforcement, safety precautions, and notices and warnings. The Must Read document is sent with all shelters and buildings. If you did not receive a Must Read document, contact Customer Service to request one.
- **On-Center:** Term used to describe a measurement taken from the vertical center of the rafter or frame member to the vertical center of another.
- **Purlin:** The pipe assembly that runs perpendicular to the rafters or framework that supports the main cover. Purlins are found on the sides and roof areas of the assembled frame, are evenly spaced, and typically run from the front to the back of the shelter.
- **Plain or Straight Pipe:** A term used to describe a pipe that has the same diameter or width throughout its entire length.
- **Strut:** A strut is usually a length of pipe with two flattened ends and is used for diagonal bracing of the shelter frame. A strut is typically secured to the frame work by special brackets and bolts.
- **Swaged End or Swaged Pipe:** The term "swaged" refers to the tapered end of the pipe or tube. Swaged ends of a pipe can be inserted into couplers and the straight ends of other pipes.
- **Tek Screw:** A self-tapping fastener used to secure pipe joints and to fasten brackets to rafters.

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REQUIRED TOOLS

Space below is reserved for customer notes.

The following list identifies the main tools needed to assemble the shelter. Additional tools and supports may be needed depending on the structure, location, and application.

- Tape measure or measuring device
- Chalk line (optional)
- Marker to mark locations on the pipes
- Variable speed drill and impact driver (cordless with extra batteries works best)
- Metal-cutting tool for pipe
- Wrench, ratchet and socket (recommended)
- Hammers and gloves
- Tin snips or similar cutting tool
- Ladders, work platforms, and other machinery for lifting designed to work safely at the height of the shelter

UNPACK AND IDENTIFY PARTS

The following steps will ensure that you have all the necessary parts before you begin to assemble the shelter.

1. Unpack the contents of the shipment and place where you can easily inventory the parts. Refer to the Bill of Materials/Spec Sheets.
2. Verify that all parts listed on the Bill of Materials/Spec Sheets are present. If anything is missing or you have questions, consult the Pictorial Parts Guide and all shelter diagrams for clarification, or contact Customer Service.

NOTE: At this time, you do not need to open the plastic bags containing the fasteners (if used).

QUICK START GUIDE

For a quick overview of this shelter and its components, consult the Quick Start Guide at the back of these instructions.

ClearSpan

The following graphics and photos will help you identify the different parts and show you how they are used.
(Not all parts are shown.)



FA4482B
Tek Screw



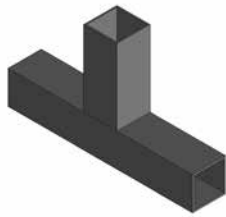
100441
Nut Setter



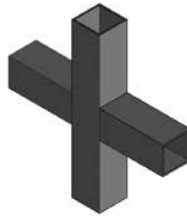
102921B
Neo-bonded
Galvanized Washer



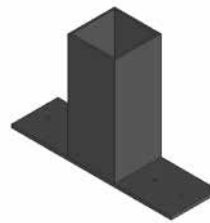
104075
1.75" x 1.75" Square
Tube Insert



104626
3-Way Square Tube
Fitting



104627
4-Way Square Tube
Fitting



104624
1-Way Square Tube
Fitting w/ Plate



Photo shows a frame that differs from actual frame.

Carport 12' Wide with Polycarbonate Roof Panels

OVERVIEW

This section is an overview of the process for assembling your Carport. For details, please see section, Assembling the Carport Roof Frame Components. See illustration below to identify main parts of shelter.

1. Locate the required parts for each assembly procedure.
2. Assemble and position base rails.
3. Assemble rafters and frame.
4. Square and anchor carport.
5. Install hat channel and roof panels.

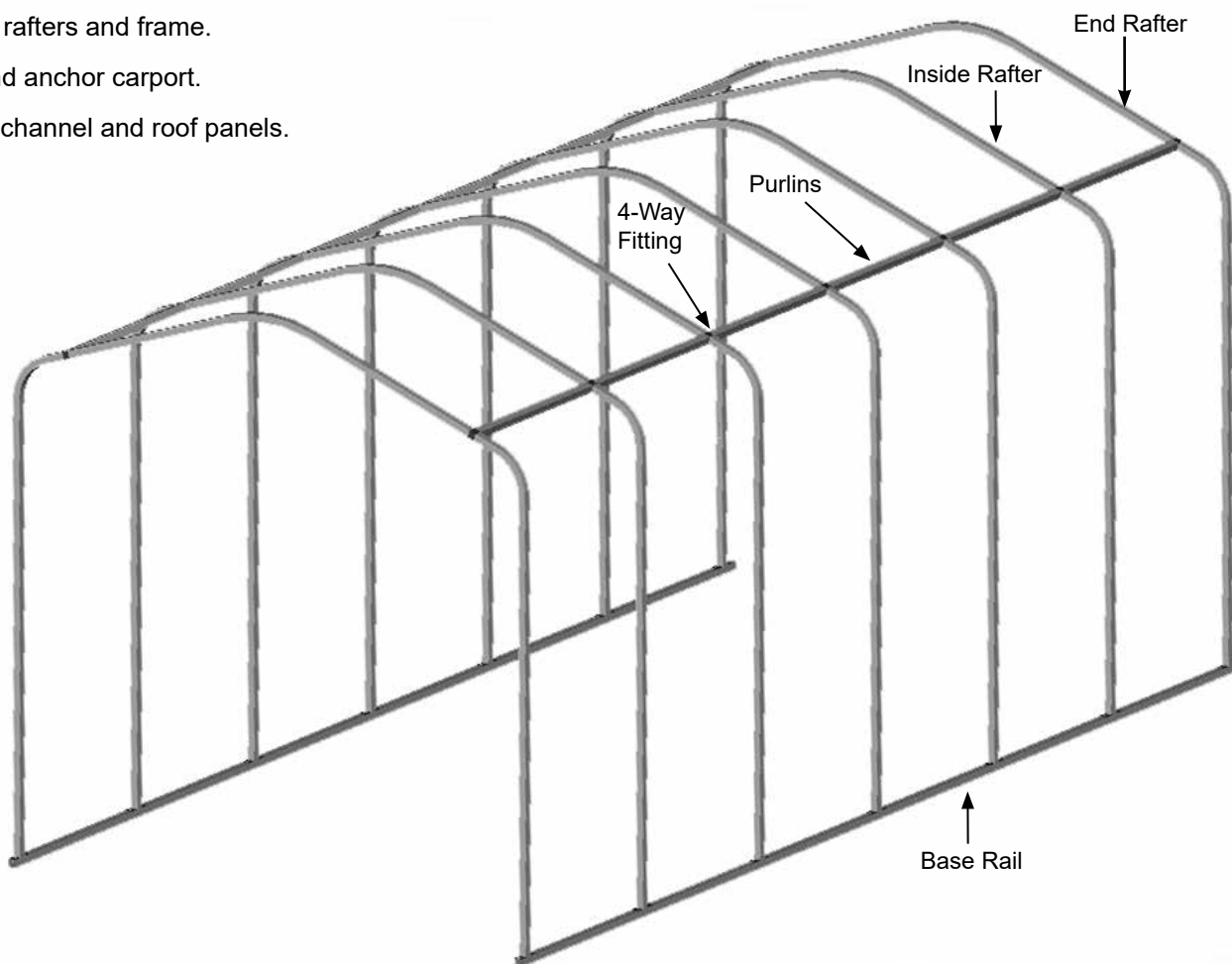


Diagram may show a different shelter length.

LAY OUT THE BUILDING SITE

After the site is prepared, marking the ground where the shelter will be situated and identifying the location of the shelter corners helps to square the frame after it is assembled.

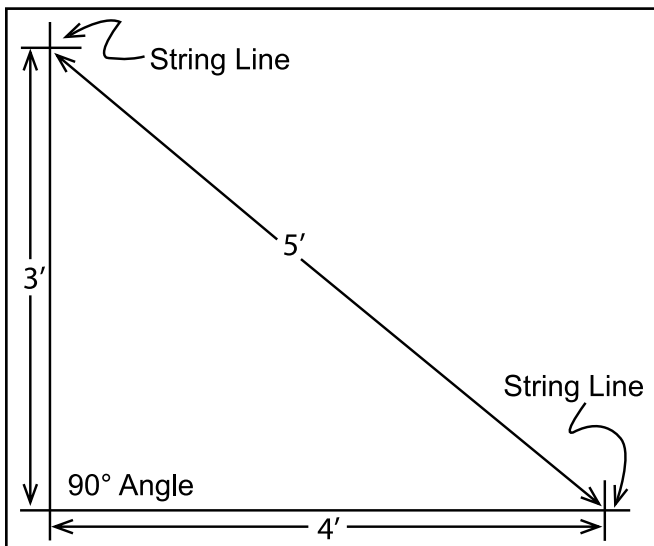
Taking these steps **before** assembling the shelter saves time and ensures that the structure is positioned as desired. The following procedure is a suggested method. Its use depends on the size of the shelter, shelter application, the footings, and the method used to anchor the shelter.

SQUARE THE SITE

1. Identify a corner where a building rafter or base rail will be positioned, drive in a stake, and string a line the exact width of the building and stake in place.
2. Sting a line at least as long as the building from the first stake at 90°.

NOTE: A transit can be used to ensure an accurate 90° angle, or the 3-4-5 rule can be used. Refer to diagram. Using multiples of 3-4-5 such as 6-8-10 or 12-16-20 helps to maintain an accurate 90° angle.

3. After squaring the position of the building and placing a stake at all corners, string a line between the stakes to mark the base of the building.



4. Continue with the BASE RAIL ASSEMBLY procedures that follow.

ASSEMBLE AND POSITION BASE RAILS

NOTE: Assistance may be required to assemble the carport frame.

Gather the Parts:

- Square tubing (See chart below)
- 1.75" x 1.75" square tube insert (#104075)
- 1-Way square tube fittings (#104624)
- Tek screws and nut setter 3/8" x 2-9/16 magnetic

The base rails consist of 2" x 2" square tubing and run the length of the building. The tubing is connected by a 16" square tube (1.75" x 1.75") insert. Each frame length has a different configuration of 2" x 2" square tubes.

Listed below are the shelter lengths and the needed tubing for one (1) base rail.

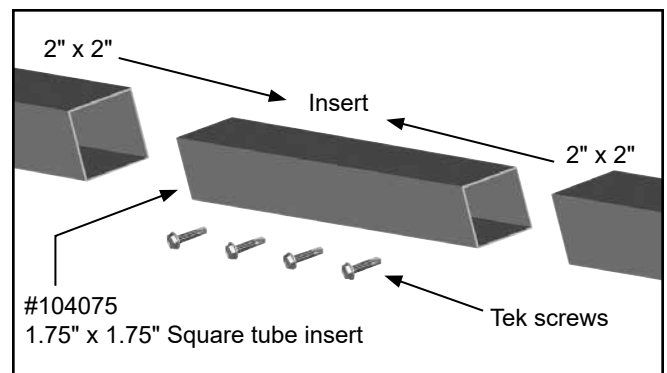
Shelter Length	Tubing Requirement
12'	124" & 26"
16'	124" & 74"
20'	124" & 122"
24'	124" & 124" & 46"

ASSEMBLE BASE RAILS

1. Locate your shelter in the table above and determine the required tubing for the two base rails.

Example: For a shelter that is 20' long, one base rail would require one 124" tube and one 122" tube.

2. At each splice, insert the 1.75" x 1.75" square tube 8" into one of the 2" x 2" tubes and secure with two Tek screws.
3. Slide the remaining 2" x 2" tube onto the exposed portion of the insert and secure with Tek screws. See diagram below.



4. Repeat the steps for all base rail splices (if present) and for the remaining base rail.

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ASSEMBLE AND POSITION BASE RAILS (Continued)

ATTACH 104624 FITTINGS (RAFTER FEET)

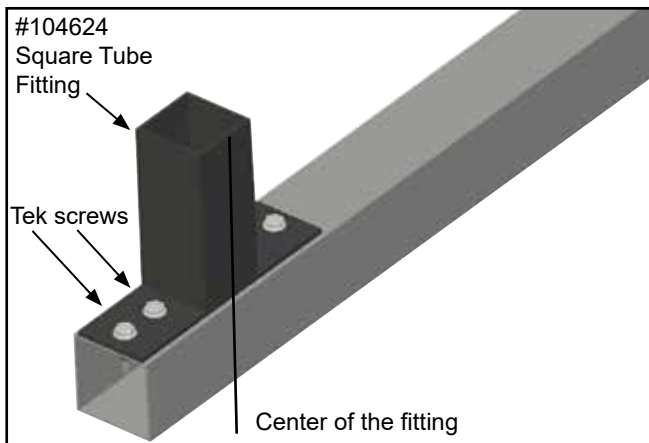
Gather the Parts:

- Assembled base rails
- 1-Way square tube fittings (#104624)
- Tek screws and nut setter 3/8" x 2-9/16 Magnetic
- Tape measure and marker

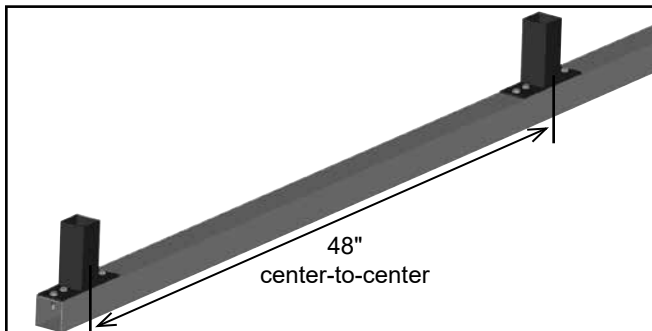
NOTE: Before attaching the 104624 square tube fittings, position the base rail so the heads of the Tek screws face the inside or the outside of the shelter.

Do not position the rail with the Tek screws on the top or bottom of the rails. Doing so may interfere with the installation of the #104624 fittings for the rafters.

1. Using Tek screws, attach the first square tube fitting (#104624) to the top of the base rail flush with the end of the base rail as shown.



2. From the center of the installed square tube fitting (#104624), measure and mark 48" increments along the length of the base rail. These marks represent the 4' on-center rafter positions.
3. Center a square tube fitting (#104624) on each mark and secure the fitting to the rail using Tek screws.
4. Repeat the steps for the remaining base rail.



NOTE: Rafter spacing is measured center-to-center.

5. Position base rails on the site where the shelter will be assembled. Space rails at the approximate width of the shelter.

ATTENTION: Do not anchor the rails to the site at this time.

6. After the base rails are assembled, continue with the RAFTER ASSEMBLY.

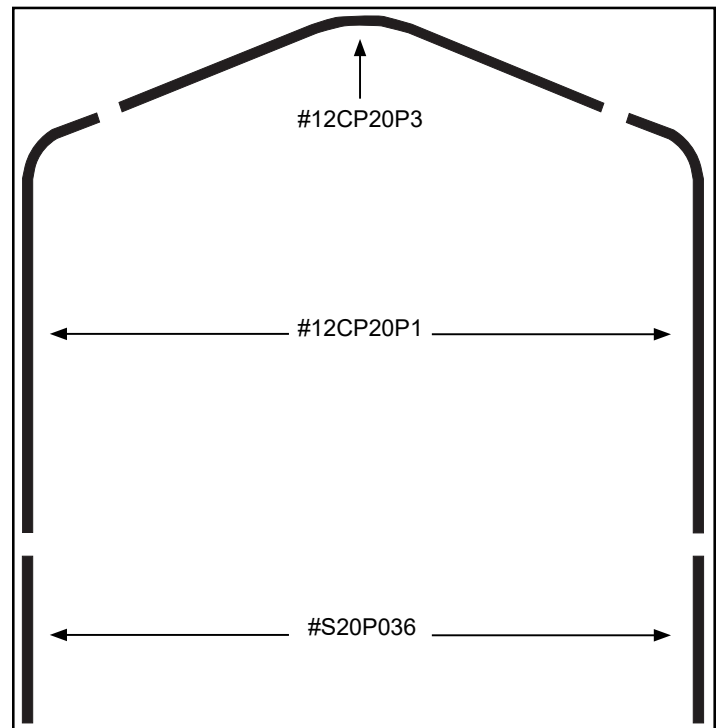
RAFTER ASSEMBLY

Gather the Parts:

- Rafter pipe (#12CP20P1)
- Rafter pipe (#12CP20P3)
- Rafter pipe (#S20P036)
- 3-Way Square tube fittings (#104626)
- 4-Way Square tube fittings (#104627)
- Tek screws and nut setter 3/8" x 2-9/16 magnetic

Rafter Assembly Procedure

Each rafter assembly consists of five (5) rafter tubes: one (1) curved center pipe (for the top or peak), two (2) bent leg pipes, and two (2) straight pipes.



NOTE: The different end rafter tubes are connected using 3-Way tube fittings (upper rafter) and square tube insert (#104075) for the rafter legs (lower).

Interior or mid rafters use 4-Way tube fittings in place of the 3-Way tube fittings used for the end rafters.

RAFTER ASSEMBLY (continued)

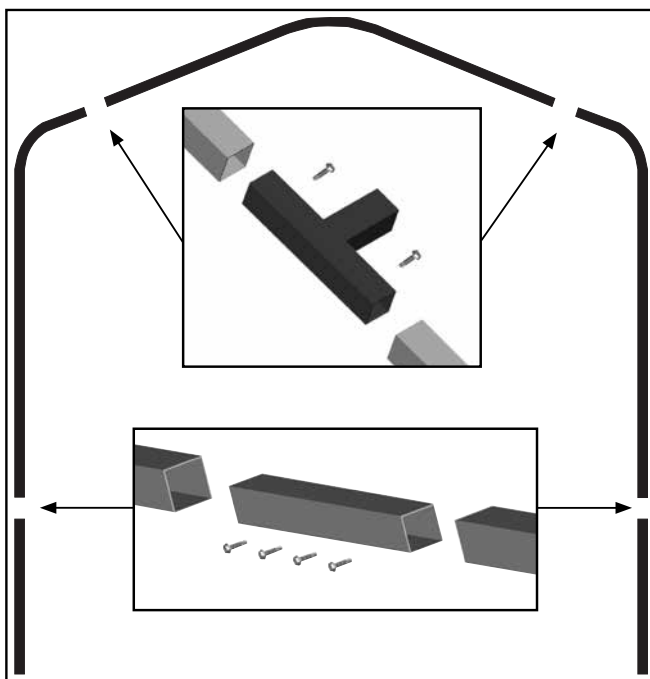
END RAFTERS

Complete the following steps to assemble the two (2) end rafters.

NOTE: The two (2) end rafters are assembled using 3-Way square tube fittings (#104626) positioned between the upper tube splices.

1. Select the tubes needed to assemble the rafter and place these on the ground as shown on previous page.
2. Insert the 3-Way square tube fitting (#104626) into the rafter pipes as shown below and secure them using Tek screws.

The free end of each 3-Way square tube fitting (#104626) must face the same direction. The free section of the tube fitting is used to connect the purlin pipes.



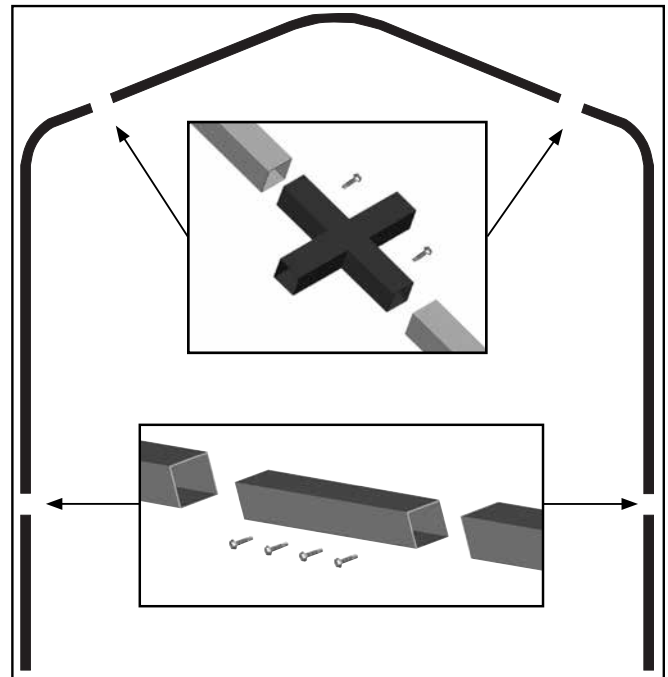
IMPORTANT: To prevent damage to the roof panels, position the Tek screws so the heads do not contact the panels when installed.

3. Connect the lower rafter legs using the 1.75" x 1.75" square tube insert (#104075). (See the Base Rail assembly steps if needed.) Place the insert 8" into the rafter pipes and secure using Tek screws.
4. Repeat Steps 1–3 for the remaining end rafter.

NOTE: There are only two (2) end rafter assemblies.

INTERIOR RAFTERS

1. Select the tubing for the *first interior rafter assembly* and position it on the ground as previously done for the end rafters.
2. Install a 4-Way square tube fitting (#104627) in the locations shown in the diagram below and secure the joints using Tek screws.



IMPORTANT: To prevent damage to the cover, install Tek screws so the heads do not contact the roof panels when these are installed.

3. Repeat the steps for all remaining interior rafters.
4. Once all rafter assemblies are complete, continue with the FRAME ASSEMBLY instructions that follow.

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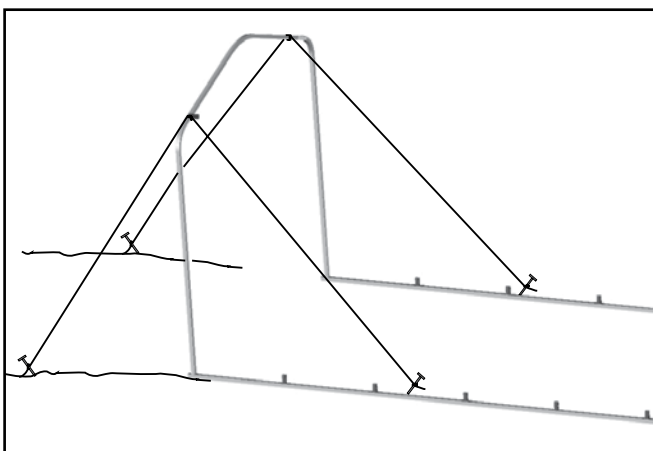
FRAME ASSEMBLY

The following instructions assume the 104624 fittings (rafter feet) are properly spaced on each base rail.

ATTENTION: If the site is not level as recommended, you must take the necessary steps to level the site. The frame will not assemble properly without a level side.

Gather the Parts:

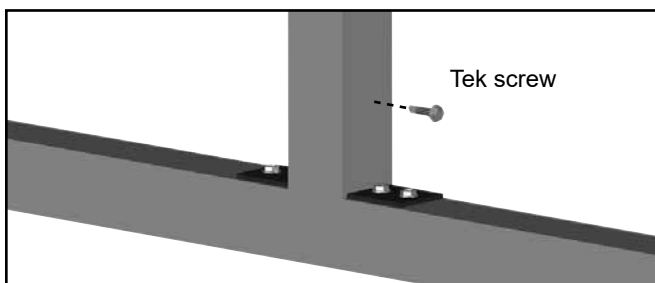
- Rafter assemblies
 - Assembled base rails
 - Square tubes (#S20P046)
 - 3-Way Square tube fittings (#104626)
 - 4-Way Square tube fittings (#104627)
 - Tek screws and nut setter 3/8" x 2-9/16 magnetic
1. Stand the first end rafter and place the leg pipes on the first set of 104624 fittings on the base rails.
 2. Anchor the first rafter with ropes or other temporary bracing. *Verify that the rafter is plumb (straight).*



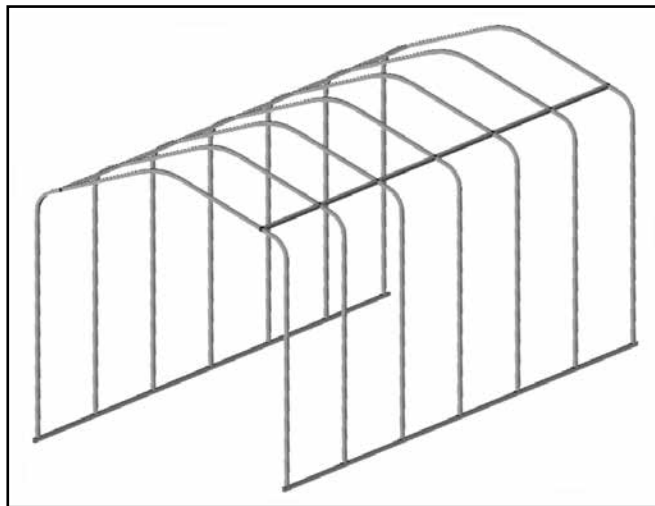
NOTE: In the above diagram, ropes (identified by black lines for clarity) are used to temporarily anchor the rafter in place. *Frame shown may differ from actual frame.*

For this first end rafter, all temporary bracing *must remain* in place until other rafters are set and attached to the first rafter and each other.

3. Secure each rafter leg tube to each 104624 fitting using one Tek screw as shown below.



4. Carefully stand the first *interior rafter* and place the leg pipes on the next set of 104624 square tube fittings.
5. Secure the rafter leg tubes to the fittings using Tek screws as previously described.
6. Slide a 46" square tube (#S20P046) onto the 3-Way fittings of the *end rafter* and secure each with a Tek screw.
7. Place the free end of each purlin onto the 4-Way fittings of the second rafter, which is the first interior rafter.
8. Measure 48" from the center of the end rafter to the center of the second rafter. Adjust the rafter forward or backward to achieve the dimension.
9. When the dimension between the rafter peaks is achieved, secure the purlins to the 4-Way fittings of the interior rafters.
10. Verify that all rafters are plumb and continue with the next step.
11. Continue to stand, place, and secure the remaining rafters to the base rails to complete the assembly of the frame.



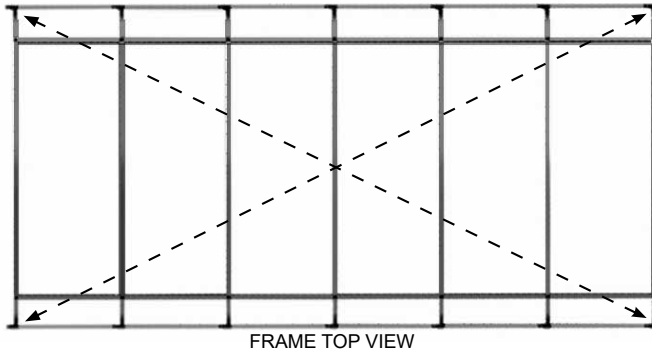
Frame shown may differ from actual frame. It is used for illustration only.

12. Once all rafters are set and all purlins are in place and secured to the 3-Way and 4-Way fittings, remove the temporary bracing (if needed), and square the assembled frame.

SQUARE THE ASSEMBLED FRAME

Complete these steps:

1. Perform a final square of the frame by measuring diagonally (corner to corner) at the base and verify that the two measurements are equal.



2. Examine the frame and remove any sharp edges from the frame or reposition screws so they do not come in contact with the roof panels.
3. Verify that all pipe and tube joints are secured with Tek screws. *This includes base rails, rafters, purlins, and all additional bracing.*
4. After the frame is squared, read or reread the **MUST READ** document and anchor the frame in place.

ANCHOR THE SHELTER

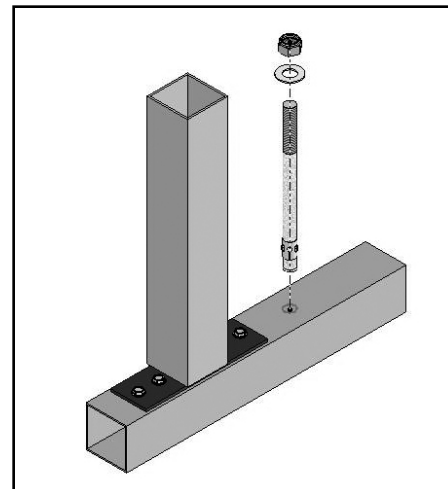
At this point in the assembly process, anchor the assembled frame. Once the frame assembly is anchored properly, continue with these instructions.

⚠ WARNING: Securing the base rails to concrete blocks or wood boards set on the site is not a substitute for properly anchoring the shelter. *You must anchor the shelter as described in the MUST READ document.*

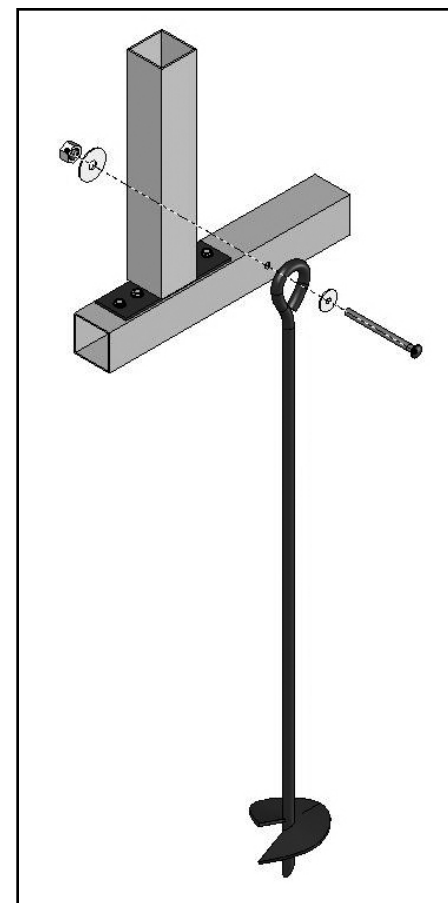
FAILING TO PROPERLY ANCHOR THE SHELTER WILL RESULT IN DAMAGE TO THE SHELTER AND MAY CAUSE PERSONAL INJURY.

READ THE MUST READ DOCUMENT TO PROPERLY ANCHOR THE SHELTER.

The diagrams below illustrate two possible ways to properly anchor the shelter to the site.



Anchor System for use on concrete



Ground Anchor System

The parts shown in the diagrams regarding anchor systems are *not included* with the shelter.

Contact Customer Service at 1-800-245-9881 to purchase additional parts to anchor the shelter.

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INSTALL HAT CHANNEL

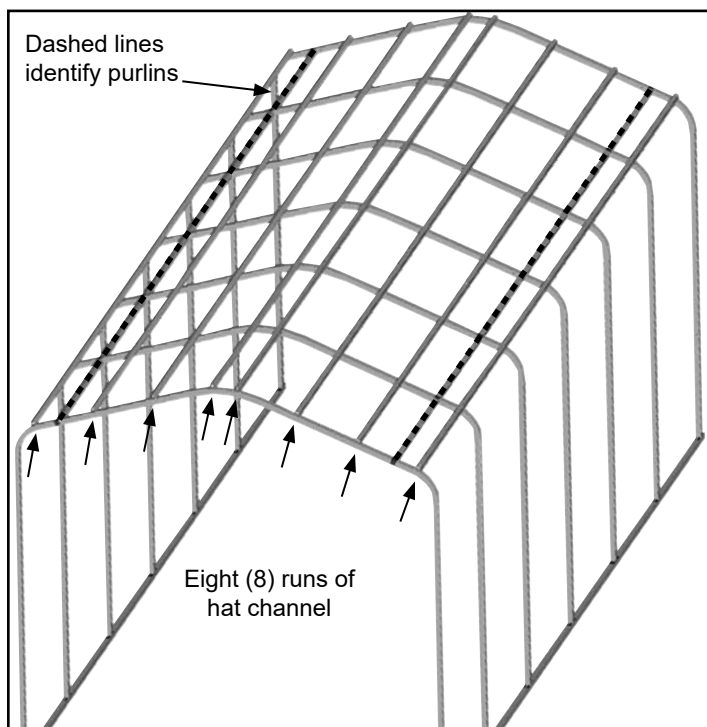
The roof panels are secured to the installed runs of hat channel using Tek screws and neo-bonded washers.

Required tools:

- Chalk line (optional)
- Tape measure
- Battery- (or electric-) powered driver
- Nut Setter 3/8" x 2-9/16 Magnetic

Gather the Parts:

- Hat channels (#105352)
- Tek screws



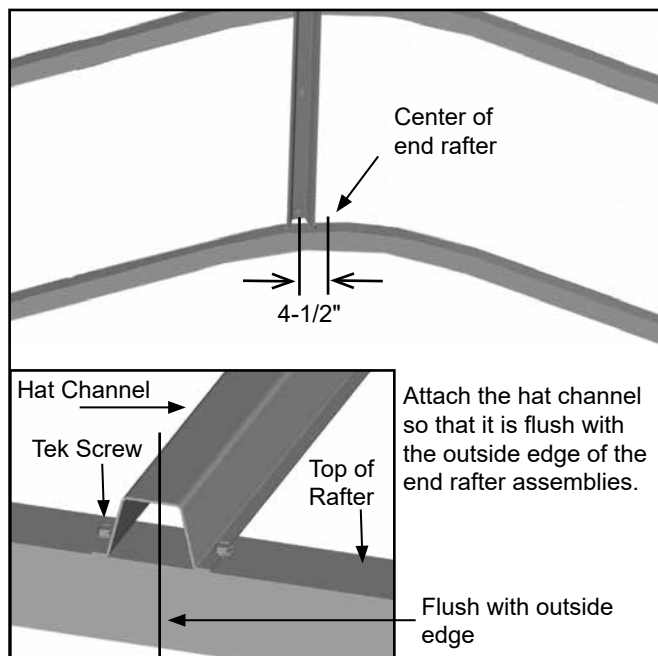
Hat Channel Location Diagram (See arrows for locations)

The following steps describe one way to install the hat channel and roof panels.

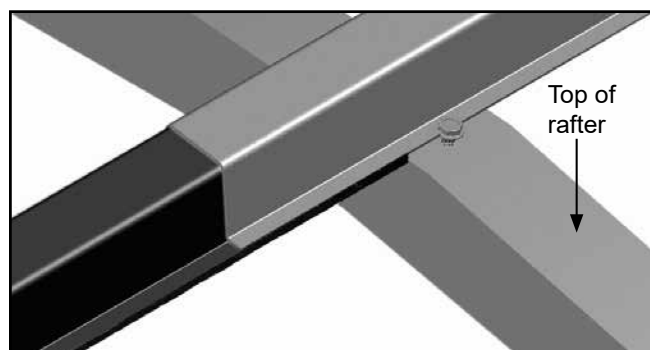
1. At the peak of the end rafter, locate and mark the center.
2. Move to the other end rafter and repeat Step 1.
3. Measure 4-1/2" from the center mark on *both sides of the center* and mark the locations.

NOTE: These marks identify the on-center locations of the upper two (2) hat channel runs. Consult the diagram in the next column.

4. Repeat the step for the other end rafter.
5. Take a chalk line and using the marks made in Steps 3 and 4, snap a line across the tops of the rafters.
6. Using the on-center marks and the chalk line (if used), position the first length of hat channel on the assembled frame and secure it in place using Tek screws only.



ATTENTION: If the length of the frame requires additional sections of hat channel for each run, cut the hat channel to length (see notes below) allowing 1"– 2" to overlap the previous section of hat channel, and secure to the rafter.



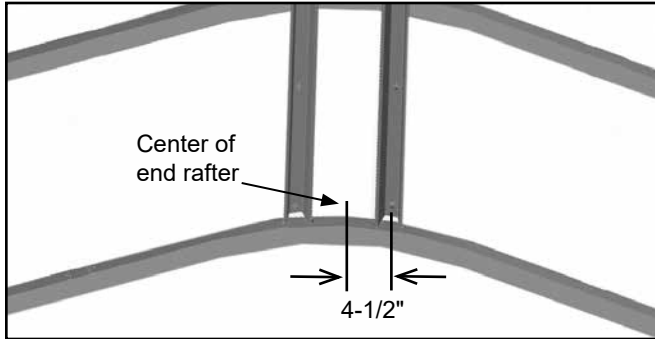
Hat channels are shipped in 12' 3" sections; overlap each section to complete a single run of hat channel.

For 12', 20', and 24' carport lengths: DO NOT cut the individual sections to length. The sections are overlapped when installed.

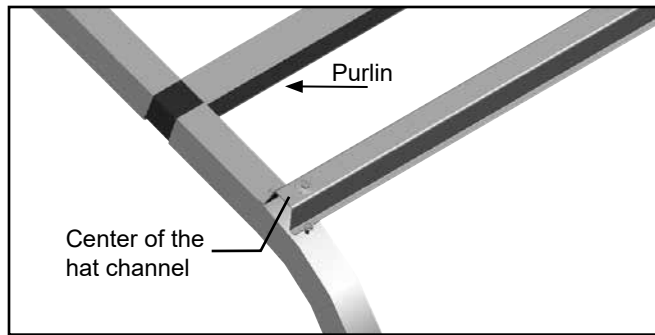
For 16' carport length: Cut four (4) of the 12' 3" sections in half and overlap the hat channel to complete the individual runs.

INSTALL HAT CHANNEL (continued)

- After installing the first run of hat channel on one side of the peak, repeat the steps to install the first run at the peak for the other side of the frame.

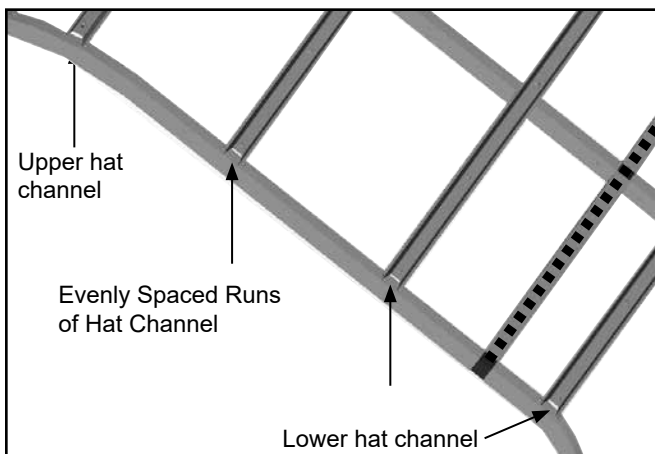


- With both runs of hat channel installed *near the peak* of the assembled frame, move down the rafter and mark the center of the next run of hat channel.



ATTENTION: For proper installation of the roof panels, the hat channel shown above must be positioned *near the curve of the rafter leg* but not on the curve.

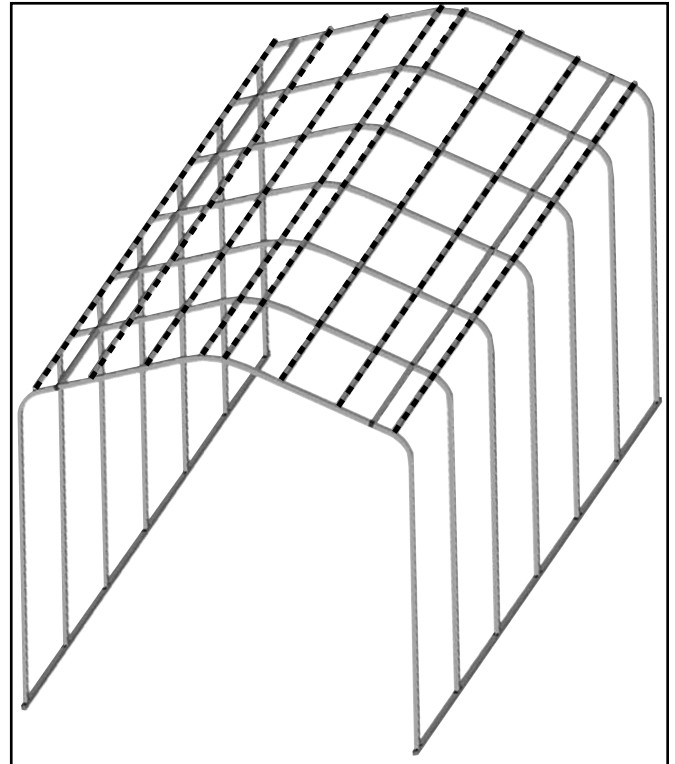
- Mark the same location on the other end rafter and attach the hat channel to the rafters as previously described.
- Using the Hat Channel Location diagram on the previous page, identify the number of hat channel runs and evenly space the remaining runs between the upper and lower hat channel runs.



ATTENTION: Space hat channel runs evenly between the upper and lower hat channel runs.

- Once all hat channel runs are installed on the first half of the frame assembly, repeat the steps to install the hat channel on the remaining half of the roof

ATTENTION: All runs must be evenly spaced and parallel to each other.



Dashed lines identify the hat channel runs. Frame may differ in length.

- After all hat channels are installed, continue with the installation of the corrugated roof panels.

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INSTALL ROOF PANELS

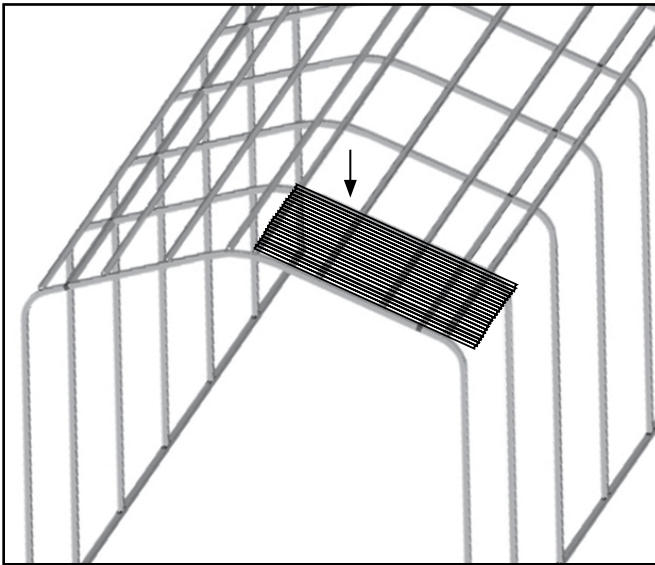
The following steps describe one way to install the roof.

Gather the Parts:

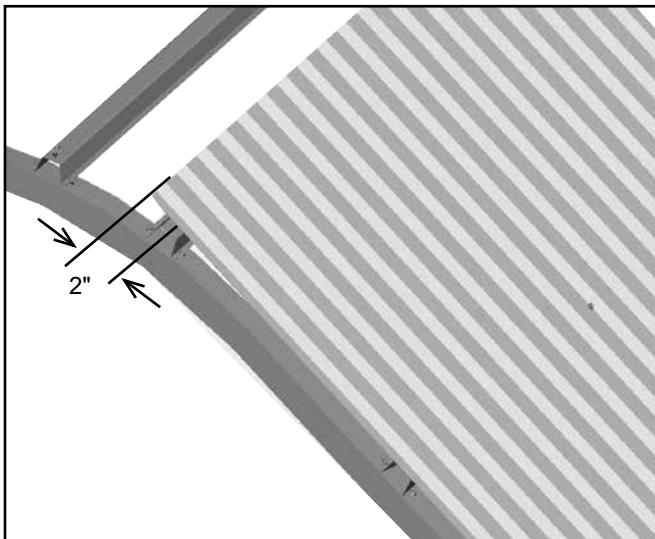
- Corrugated roof panels (#104620G)
- Corrugated ridge caps (#105520)
- Tek screws and neo-bonded washers

ATTENTION: Use Tek screws and neo-bonded washers to attach the roof panels. *Install all roof panels with the UV-protected side toward the sun.*

1. Position the first corrugated panel on the roof as shown. *Verify that the UV-protected side is toward the sun.*



2. Align the top edge of the panel with the upper hat channel so that the panel runs parallel with the hat channel and the edge of the end rafter.

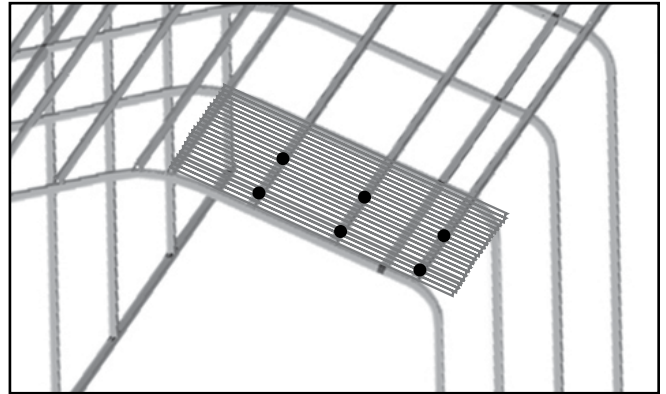


Allow the panel to extend beyond the center of the hat channel approximately 2" as shown above.

ATTENTION: The position of the panels depends on where the upper hat channel runs were installed. *Before you secure the panels to the hat channel, use a section of ridge cap to verify that the upper gap between the panels can be covered with the ridge cap.*

3. Secure the panel to the hat channel using Tek screws and neo-bonded washers.

Use three (3) fasteners for each run of hat channel per panel. The third fastener (not shown) is installed when the adjacent panel is installed. Install screws in the valleys of the panels.

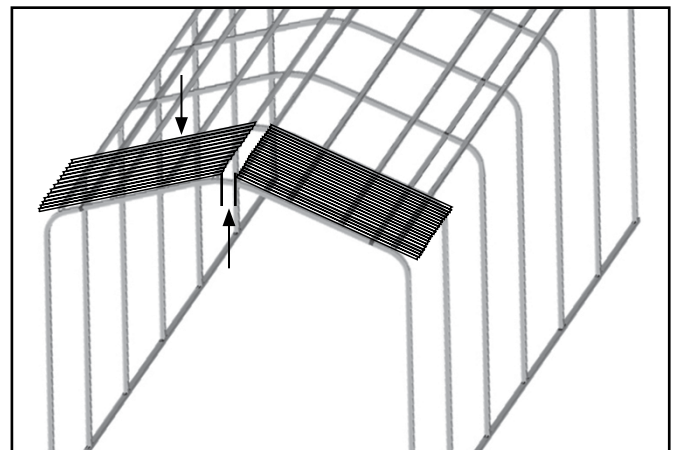


ATTENTION: Do not install screws along the top edge of the panel or the edge that will be overlapped by the next panel when it is installed.

SEE THE BLACK DOTS IN THE ABOVE DIAGRAM FOR THE LOCATION OF THE FASTENERS FOR THE FIRST PANEL.

The top edge will be secured to the hat channel when the corrugated ridge cap is installed; the edge that is overlapped by the next panel is secured when that panel is installed.

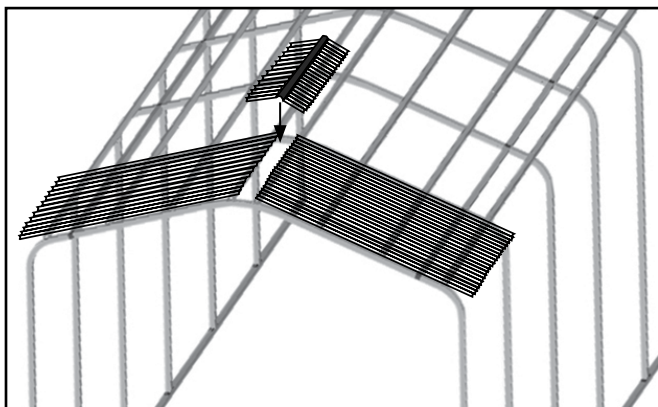
4. Repeat the steps to install and secure the next panel shown below.



A space will remain between the panels at the peak of the frame. The ridge cap covers this when it is installed.

INSTALL ROOF PANELS (continued)

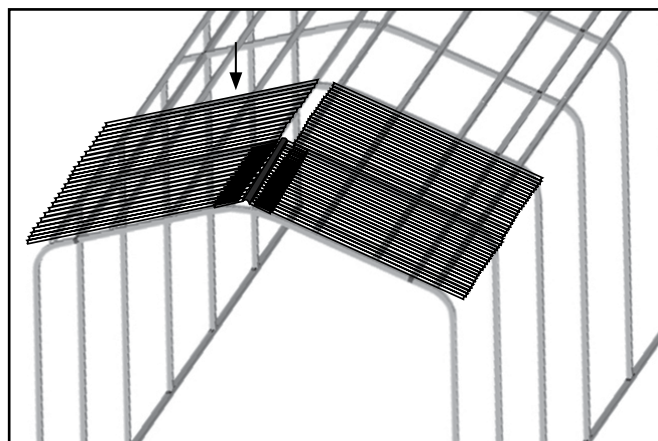
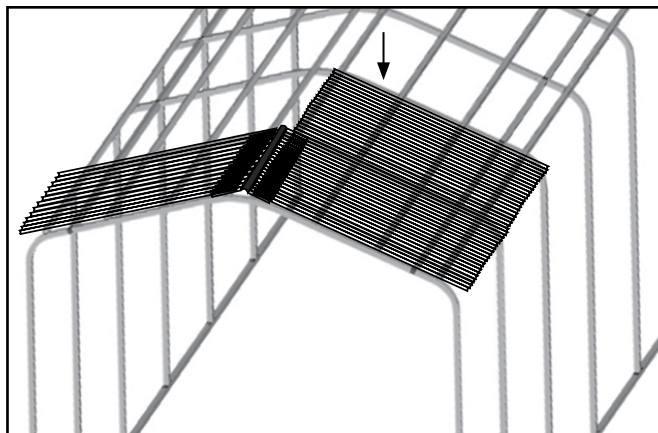
5. Choose the first section of ridge cap and place it in position as shown below.



6. Using Tek screws and neo-bonded washers, secure the ridge cap to the top hat channel runs.

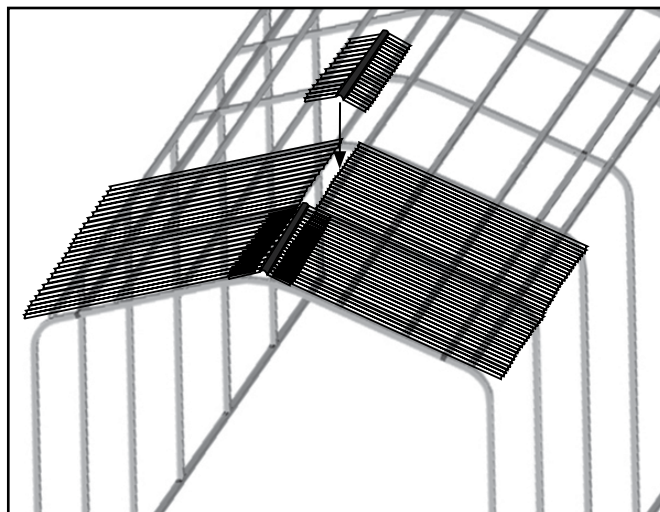
NOTE: Do not install a fastener at the edge where the next ridge cap will overlap the first ridge cap.

7. Add and secure the next set of panels. *Verify that the UV-protected side is exposed to the sun.*

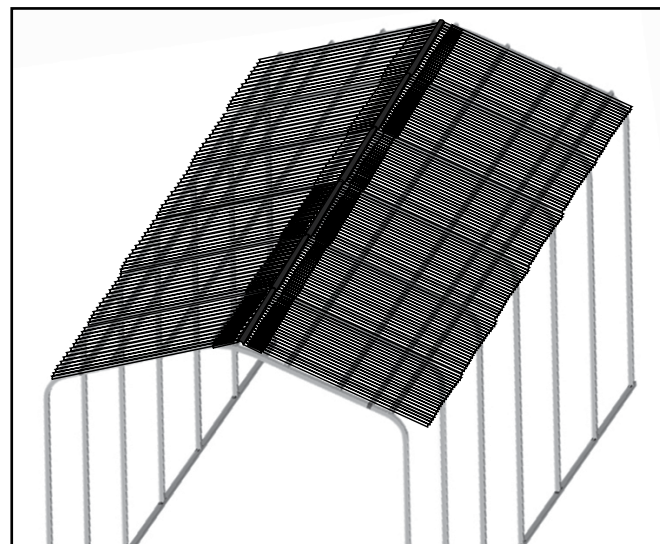


ATTENTION: These panels and all remaining panels overlap the previous sets of installed panels and are tucked under the edges of the installed ridge cap as you work toward the end of the frame.

8. After installing the panels, attach the next section of corrugated ridge cap.



9. Continue adding and attaching panels as previously described.



Frame shown may differ in length when compared to the actual frame. Installation steps are the same however.

10. When all roof panels are installed using Tek screws and neo-bonded washers, secure the final section of ridge cap in place to complete the roof assembly.
11. Continue by reading the care and maintenance information that follows.

CLEARSPAN™ CARPORTS

CARE AND MAINTENANCE

Space below is reserved for customer notes.

Proper care and maintenance of your carport is important. Check the following items periodically to properly maintain your carport:

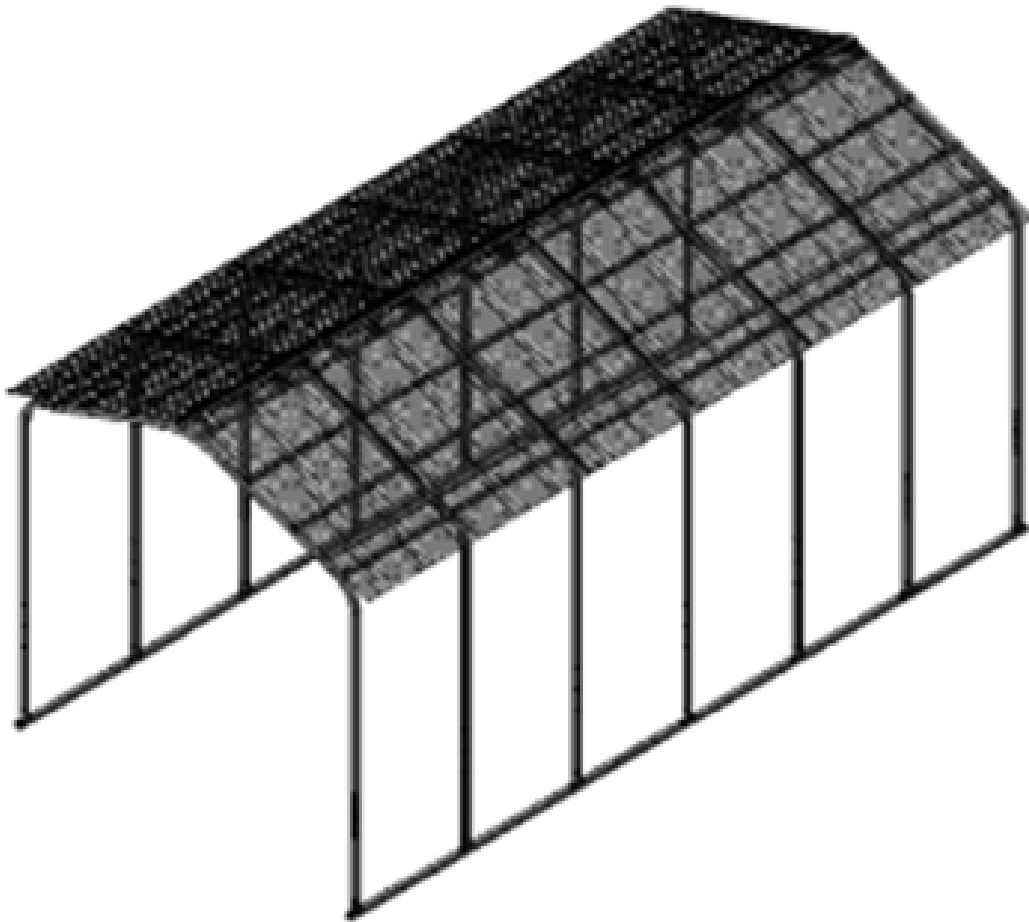
- Regularly check the roof panels to see that they remain tight and in proper repair.
- Check connections and all fasteners to verify that they remain tight.
- Verify that the anchor system used to secure the assembled frame to the site is in good repair and that all connections and fasteners are tight.
- Do not climb or stand on the shelter at anytime.
- Remove debris and objects that can accumulate on the shelter. Use tools that will not damage the roof panels when removing debris.
- Remove snow to prevent excess accumulation. Use tools that will not damage the roof panels when removing snow.
- Check the contents of the shelter to verify that nothing is touching the roof panels that could cause damage.
- If the shelter is moved, inspect all parts and connections before using.
- For replacement or missing parts, call 1-800-245-9881 for assistance.

NOTE: With the exception of Truss Arch buildings, ClearSpan™ shelters and greenhouses *do not* have any tested loading criteria.



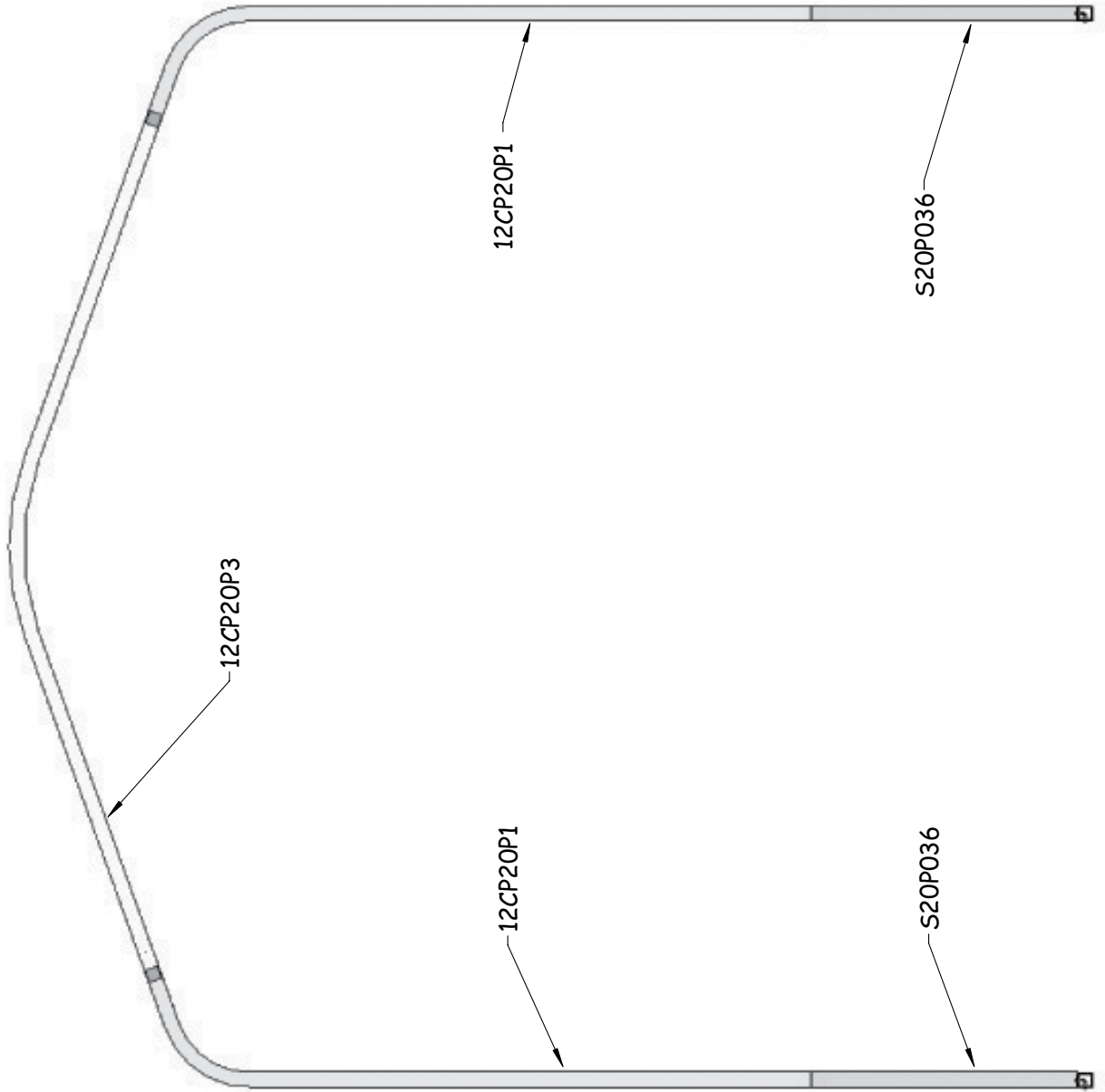
QUICK START GUIDE

12' Wide Carport with Polycarbonate Roof Panels

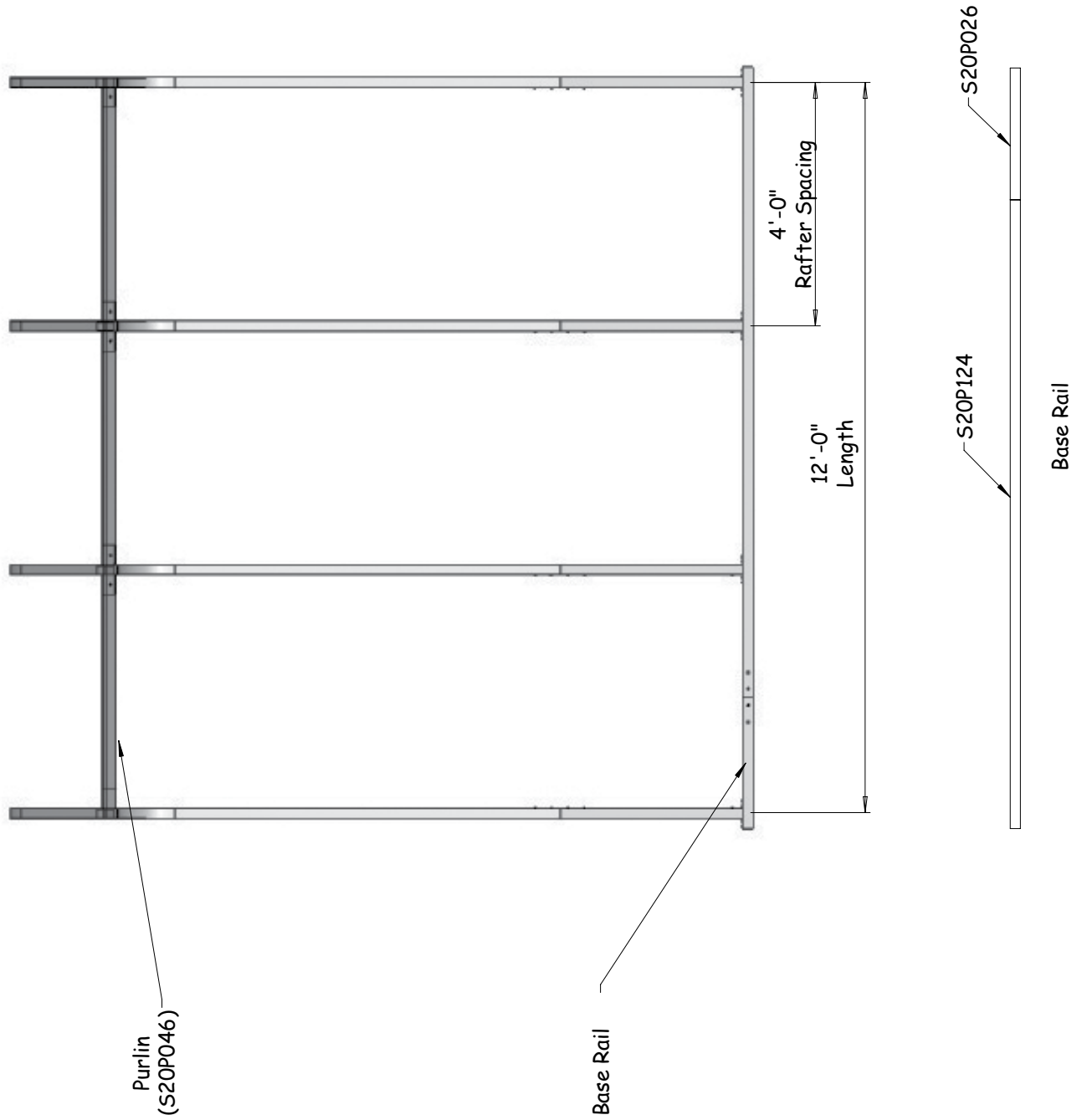


Frame shown may differ in length from actual frame.

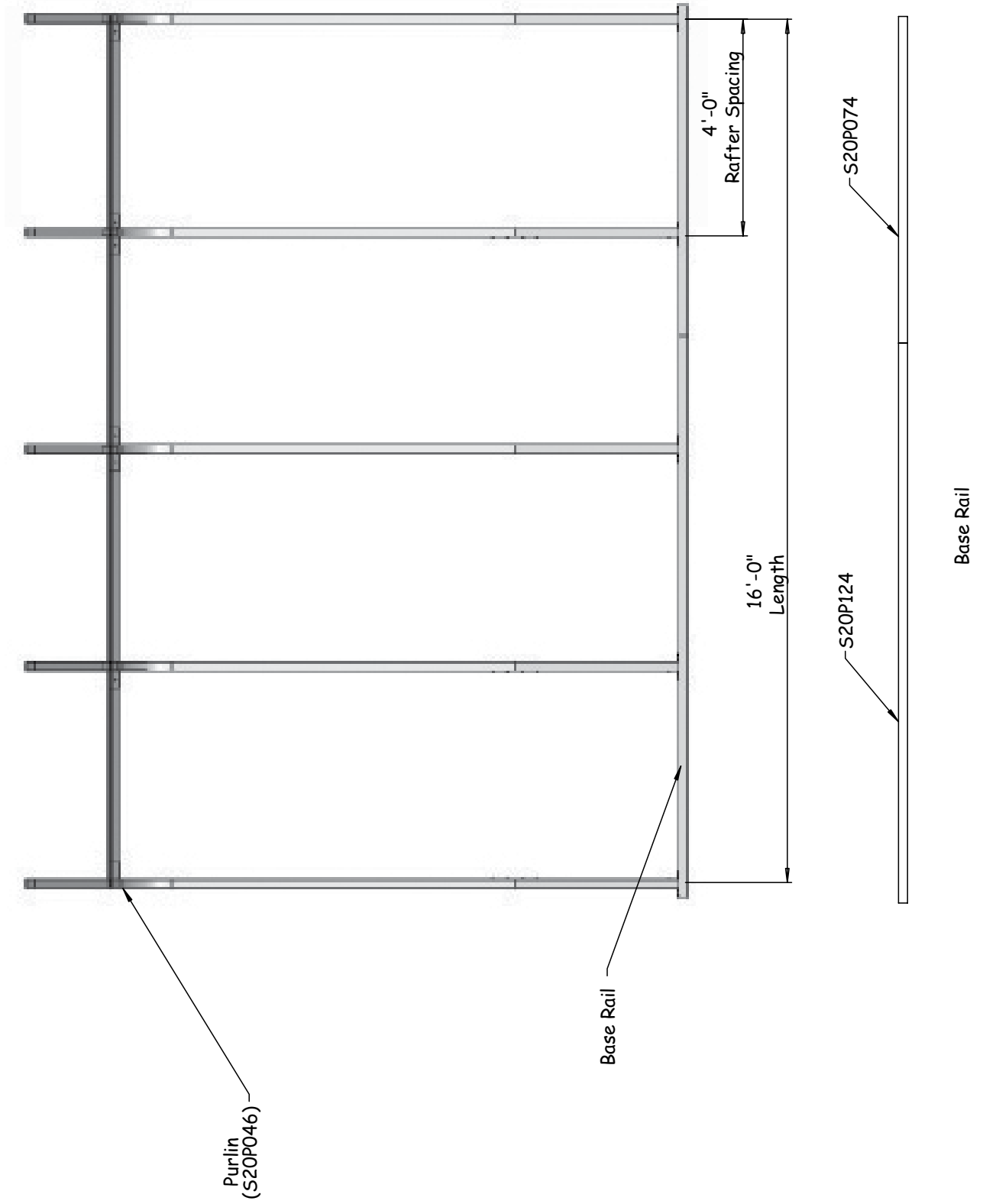
FRONT PROFILE



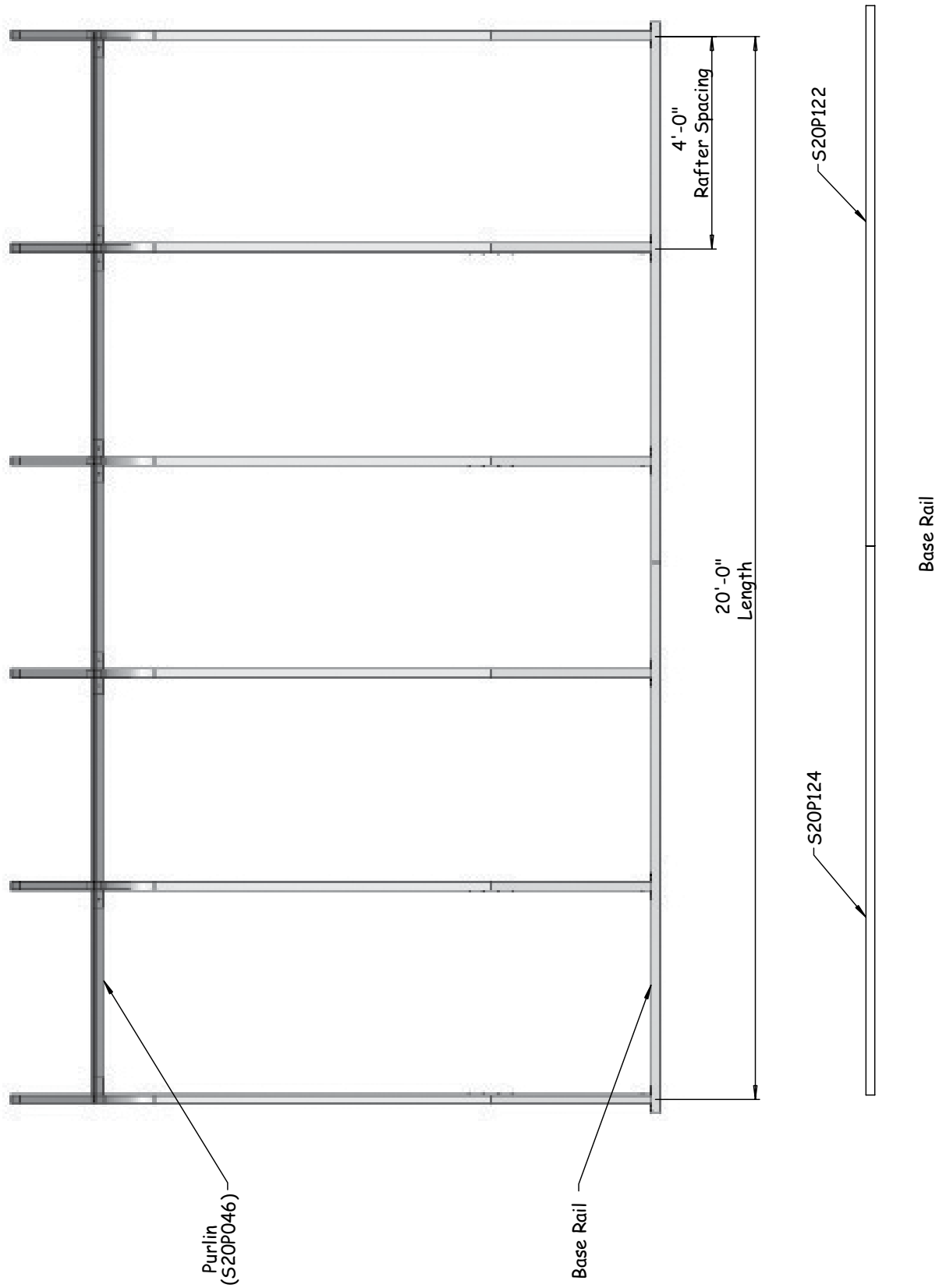
SIDE PROFILE - 105505



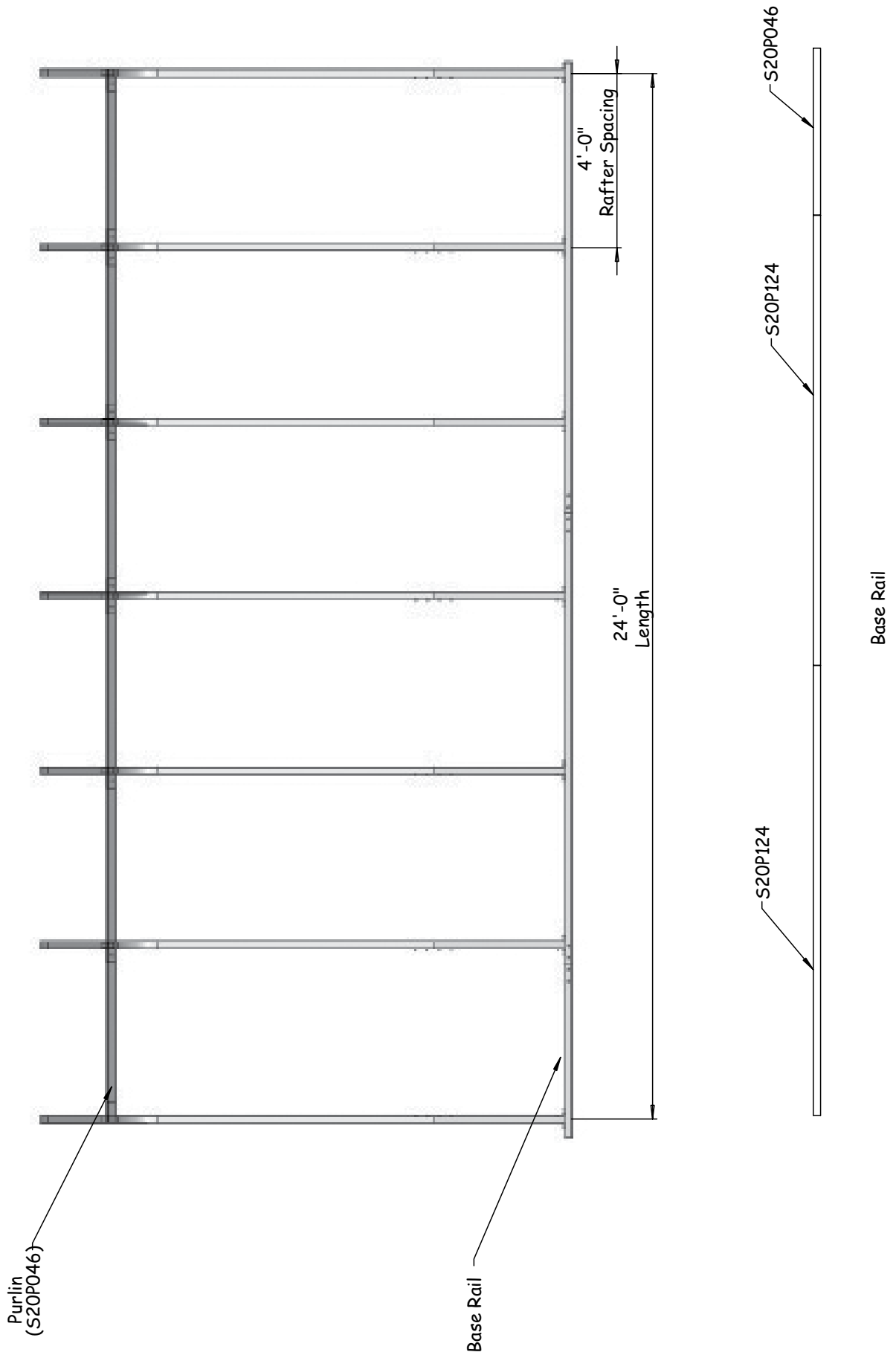
SIDE PROFILE - 105506



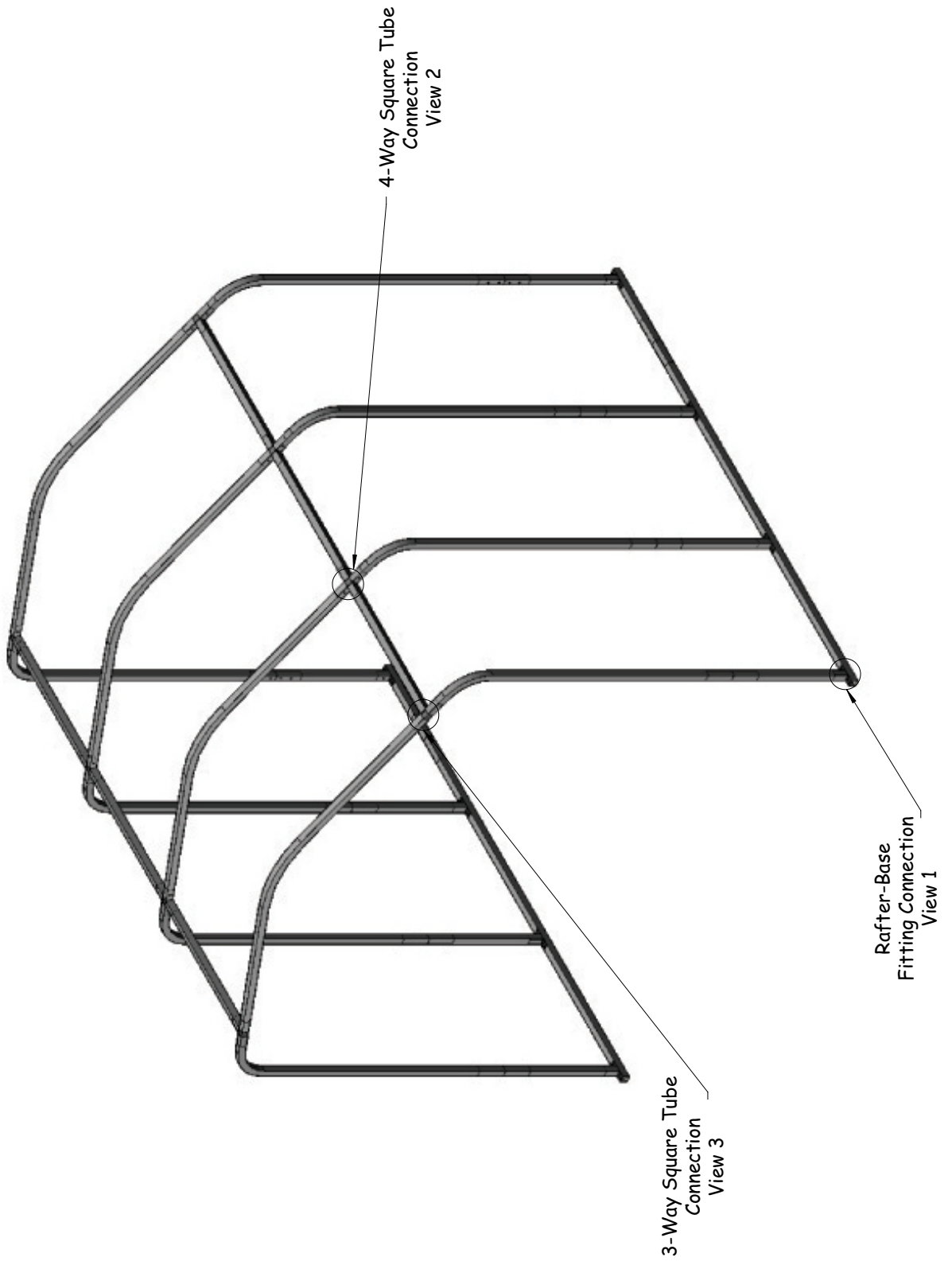
SIDE PROFILE - 105507



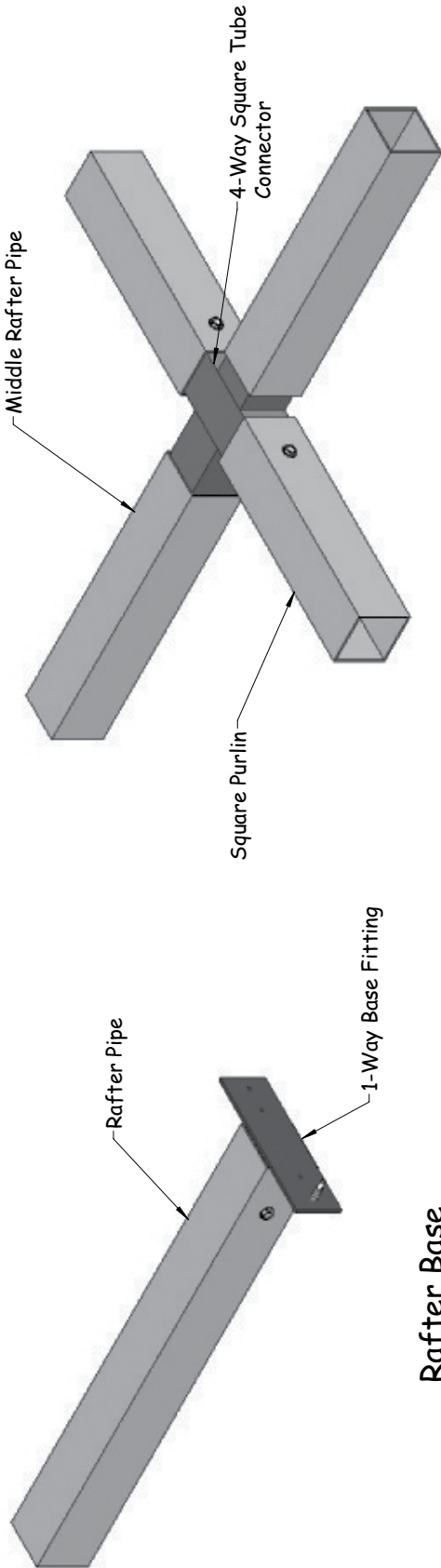
SIDE PROFILE - 105508



CONNECTIONS

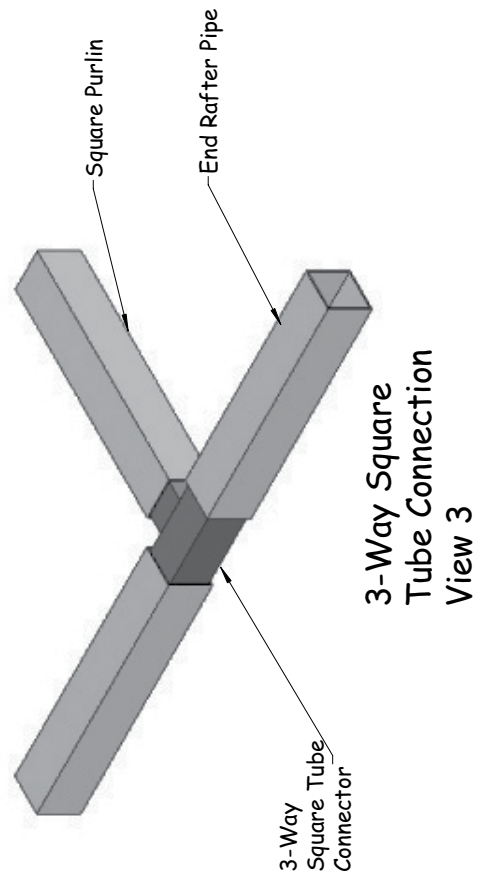


CONNECTION - DETAILS



Rafter Base Fitting Connection View 1

4-Way Square Tube Connection View 2



3-Way Square Tube Connection View 3



Space below is reserved for customer notes.