



# **PergoStar Plus™**

## Installation Instructions

This installation manual is to be used in conjunction  
with the installation videos that can be found on  
[YouTube.com/@AnchorIndustries](https://www.youtube.com/@AnchorIndustries)

All details and information provided on the subsequent  
pages are of general nature and may not refer to your  
specific project.



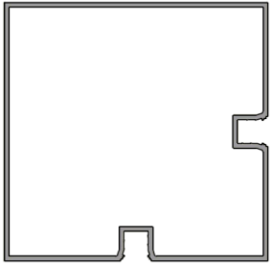
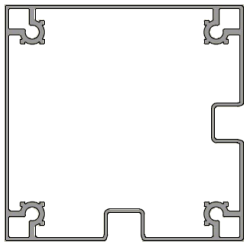
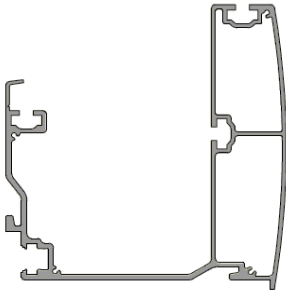


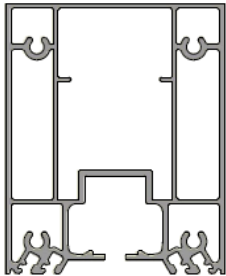


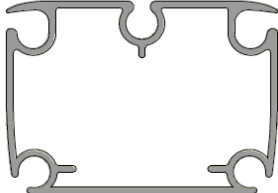


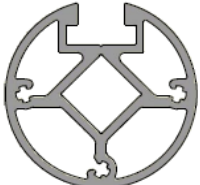
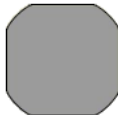
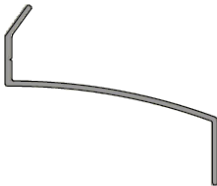

# Contents

- Extrusion Glossary
- Installation Tools
- Suggested Order of Installation
- Assembly Instructions
  - Documentation
  - Frame & Fabric
  - Motor & Lights
  - Finishing Touches
- Maintenance & Care
- FAQ

# **Extrusion Glossary**



# Extrusion Glossary

				
Posts, Supports & Lateral Beams	Upright Insert	Plus Gutter	Gutter Vertical Fixation	Gutter Horizontal Fixation
				
Rafter	Polycarbonate Support	Motor Support	Eave Purlin	Mid Purlin
				
Transmission Tube	Transmission Tube Insert	Transmission Shaft	Wall Flashing	Light Cover



# Installation Tools



# Installation Tools

The following list details the minimum required tools to successfully install a Toscana PergoStar Plus™. Other tools may be required depending on your project location or configuration.

1. Ladder(s)
2. Metric Tape Measure
3. Level
4. Metric Hex Key Set
5. Drill and/or Driver(s)
6. Extended Length Phillips #2 Bits
7. Ratchet Wrench and Deep ½” or 13mm Socket
8. Phillips Screwdriver
9. Wire Nuts or Similar
10. Caulk and Caulk Gun
11. Project Specific Anchors and Necessary Equipment to Install Anchors

*Note: Anchors to the ground or wall are not supplied.*



# **Suggested Order of Installation**





# Suggested Order of Installation

## Multiple Configurations

The following details the manufacturer's suggested order of operations to successfully install your Pergostar. Though, adjustments may be necessary depending on your specific project configuration or location.

1. **Documentation.** Locate and review the project pack list and customer detail drawing. These documents are located inside the miscellaneous parts box inside a white envelope. Following the provided pack list, confirm that all components have been received.
2. **Gutters\*.** Remove the gutter end plates. When multiple bays are present, it will be necessary to connect the gutters together using the provided weldments and hardware.
3. **Front Uprights\*.** Connect the front uprights to the gutters using the provided connection plate and hardware.
4. **Rear Uprights\*.** Assemble the rear uprights and rear upright supports using the provided hardware.
5. **Lateral Beams\*.** Connect the lateral beams to the gutter and upright assembly. For *Gazebo* configurations, connect the lateral beam to the rear up right assembly by sliding the lateral beam over the insert and secure. For *With Post* configurations containing lateral beams, remove the insert from the lateral beam end and mount to the desired location using the appropriate anchors. Once mounted, attach the lateral beam and gutter assembly to the insert using the provided hardware.
6. **Lateral Beam Uprights\*.** Connect the lateral beam uprights to the lateral beam using the provided hardware.
7. **Rafters.** Remove the rafter wall bracket and mount to the desired location using appropriate anchors (for gazebo configurations, the wall bracket will be pre-mounted to the rear upright assembly. Connect the rafter to the wall bracket using the provided bolt. Connect the rafter to the gutter and upright assembly using the provided bolt.
8. **Trolley Location.** Position the lead trolley in the middle of each rafter. Ensure the locations are the same across all rafters.
9. **Motor Support Beam.** Connect the motor support beam to the rafters in the appropriate location using the provided hardware.

*\* Configuration Dependent*



## Suggested Order of Installation

### Multiple Configurations, Continued

- 10. Polycarbonate Support Beam.** Connect the polycarbonate support beams to the rafters in the appropriate location(s) using the provided hardware.
- 10. Transmission Tube.** Connect the transmission tube to the rafters and motor using the provided hardware.
- 11. Synchronizing Tube.** Adjust the position of the lead trolleys as needed using the synchronizing tube.
- 12. Lead Eave Purlin.** Assemble the eave purlin onto the fabric using the appropriate caps and joints. Tension the fabric using the provided hardware. Connect the eave purlin to the lead trolley (tighten the nut to the point where the purlin is slightly pushing on the white trolley bushing).
- 13. Mid Purlins.** One row at a time, assemble the mid purlin (s) onto the fabric using the appropriate caps and joints. Tension the fabric using the provided hardware. Connect the mid purlin to the appropriate trolley (tighten the nut to the point where the purlin is slightly pushing on the white trolley bushing). Repeat until all mid purlins have been assembled. When lights are included, reference the customer information packet for the order in which the mid purlins should be installed.
- 15. Top Eave Purlin.** Assemble the eave purlin onto the fabric using the appropriate caps and joints. Tension the fabric using the provided hardware. Connect the eave purlin to the rafter wall plate using the provided hardware.
- 16. Program.** Program the motor and the lights (if applicable) using the instructions detailed in this instruction manual.
- 15. Frame Covering.** Attach the frame covering to the pergola using the provided hardware.
- 16. Wall Flashing\*.** Attach the wall flashing above the rafters using the appropriate anchors.
- 15. Finishing Touches.** Place the purlin end caps on each purlin. Attach the gutter end plates. Adjust lead trolleys as needed using the synchronizing tube.

*\* Configuration Dependent*



# Assembly Instructions

*Documentation*



# Navigating Supplied Documentation

## Pack List, Tags & Box Labels

Inside your pergola’s miscellaneous parts box, you will be supplied with a white packet containing pertinent documents and drawings to your project.

Within this packet you will find a document labeled “TOSCANA BY ANCHOR – PACK LIST” which will detail how many of each item you received and how they are tagged. This will help to quickly identify each part on site.

Each box received will also be tagged with a label that will identify which type of parts and quantities are inside.



### TOSCANA BY ANCHOR - PACK LIST

Project Specific Details

**SALES ORDER NO:**  
**PROJECT:**  
**PRODUCT:** PERGOSTAR PLUS  
**CONFIGURATION:** WITH POST  
**BAYS:** DOUBLE  
**SIZE:** 6096 W x 3518 P x 2247 H  
**PROFILE:** BASIC  
**COLOR:** ANTHRACITE

#	QTY	ITEM DESCRIPTION	TAG
1	1	POST #1 - OUTSIDE DRAIN	POST #1
2	1	POST #2 - OUTSIDE DRAIN	POST #2
3	1	POST #3 - OUTSIDE DRAIN	POST #3
4	1	RAFTER #1 - OUTSIDE - RIGHT MOTOR	RAFTER #1
5	1	RAFTER #2 - CENTRAL - LEFT MOTOR	RAFTER #2
6	1	RAFTER #3 - OUTSIDE	RAFTER #3
7	1	GUTTER #1	GUTTER #1
8	1	GUTTER #2	GUTTER #2
9	1	MOTOR SUPPORT BEAM	MOTOR SUPPORT
10	3	POLYCARBONATE SUPPORT BEAM	POLYCARBONATE SUPPORT
11	4	EAVE PURLINS	EAVE PURLINS
12	3	MID PURLINS - WHITE SPOT LIGHTS - 1A	MID PURLIN 1A
13	2	MID PURLINS - WHITE SPOT LIGHTS - 1B	MID PURLIN 1B
14	3	MID PURLINS - WHITE SPOT LIGHTS - 2A	MID PURLIN 2A
15	2	MID PURLINS - WHITE SPOT LIGHTS - 2B	MID PURLIN 2B
16	1	TRANSMISSION TUBE W/O SYNCH	TRANSMISSION
17	1	TRANSMISSION TUBE W/ SYNCH	TRANSMISSION
18	2	WALL FLASHING	WALL FLASHING
19	2	FRAME COVERING	FRAME COVERING
20	1	FABRIC	FABRIC
21	1	INSTALL COMPONENTS BOX	INSTALL COMPONENTS BX

Box Labels

QTY

☐ FABRIC

☐ RAFTERS

☐ UPRIGHT

☐ TRANSMISSION TUBE

☐ HORIZONTAL SUPPORT

☐ MISC. BOX

**PERGOSTAR**

**ANCHOR**

☐ MOTOR SUPPORT

☐ MID PURLINS

☐ EAVE PURLINS

☐ FRAME COVERINGS

☐ POLYCARB SUPPORT

☐ GUTTER

Part Tags

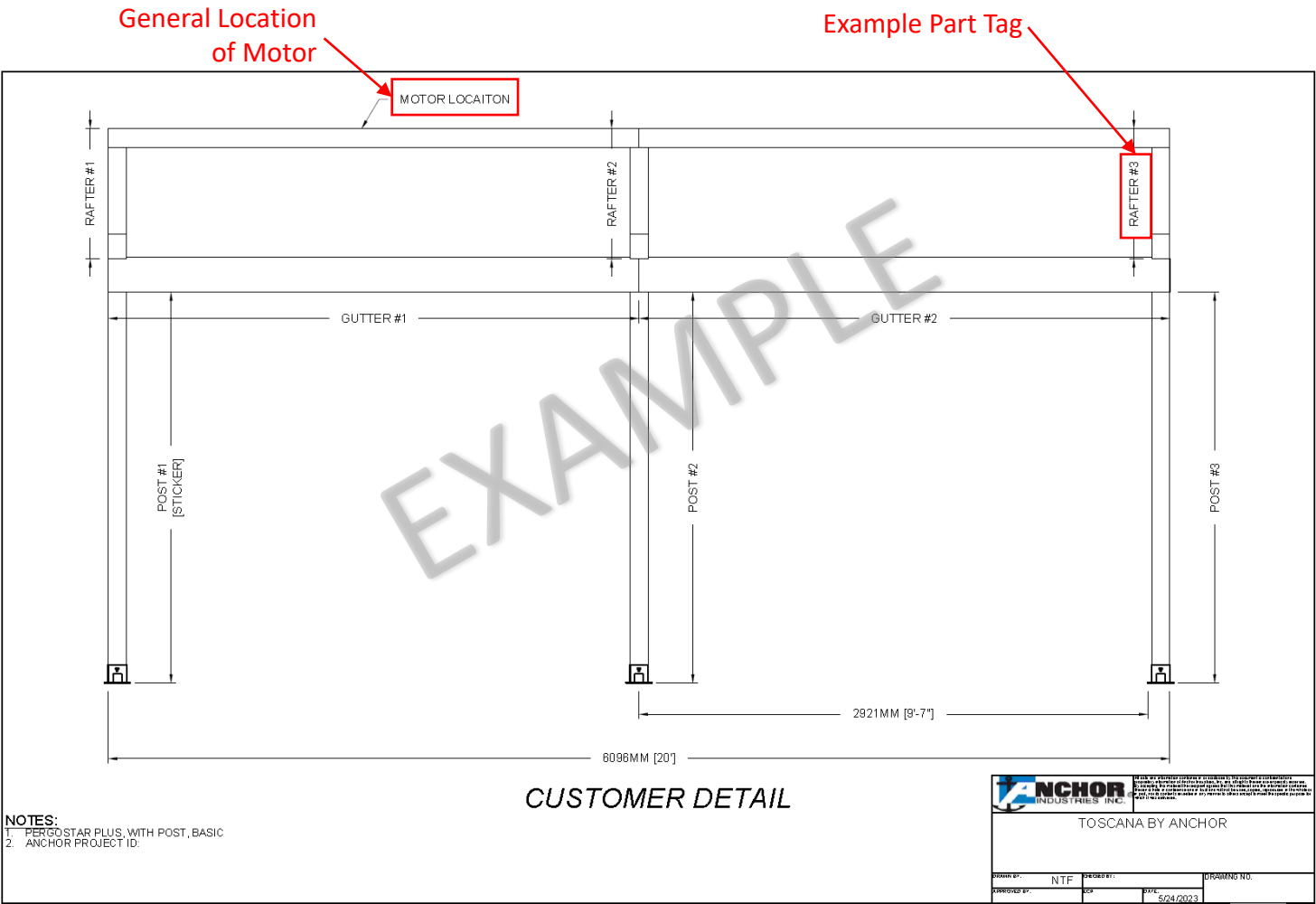


# Navigating Supplied Documentation

## Customer Detail Drawing

Within the customer information packet, you will find a document labeled “CUSTOMER DETAIL”. This drawing will aid in identifying parts and provide you with critical measurements to ensure your pergola is properly installed.

*Note: Information and location of information will vary based on the specifics of your project.*

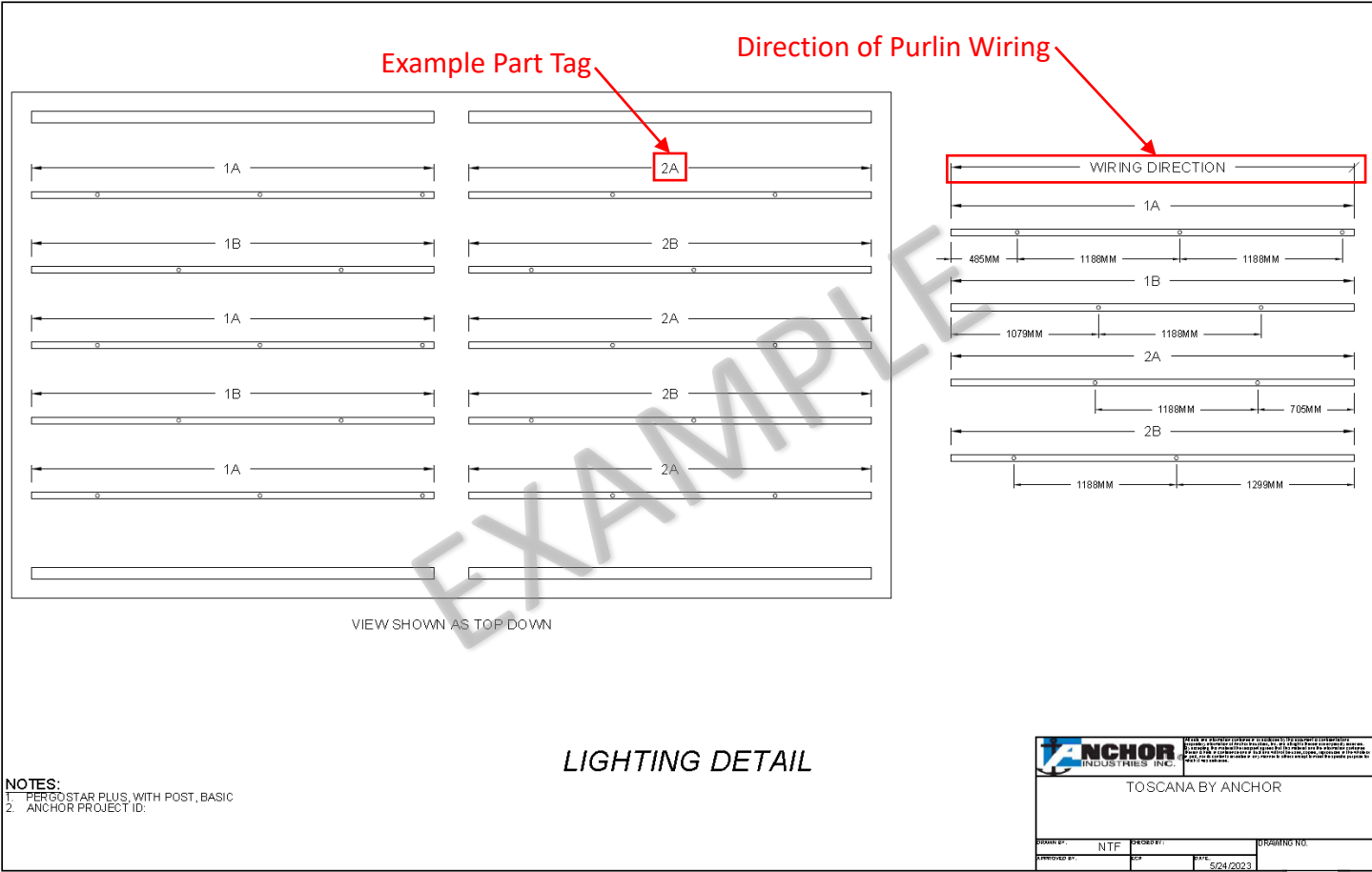


# Navigating Supplied Documentation

## Lighting Detail Drawing

Within the customer information packet, you will find a document labeled “LIGHTING DETAIL”. This drawing will aid in the identifying the order in which the mid purlins need to be installed. If multiple light circuits are present, this will be noted.

*Note: Information and location of information will vary based on the specifics of your project.*



# Assembly Instructions

*Frame & Fabric*



Your Pergostar will contain some or all of the assemblies shown on the subsequent pages. Prior to assembly, it is beneficial to identify which configuration your specific pergola contains.

The table below is included in each of the subsequent assembly pages and will help identify which assembly may be present for each type of pergola configuration.

GZ = Gazebo  
WP = With Post  
BW = Between Walls

Configuration		
GZ	WP	BW
X	X	

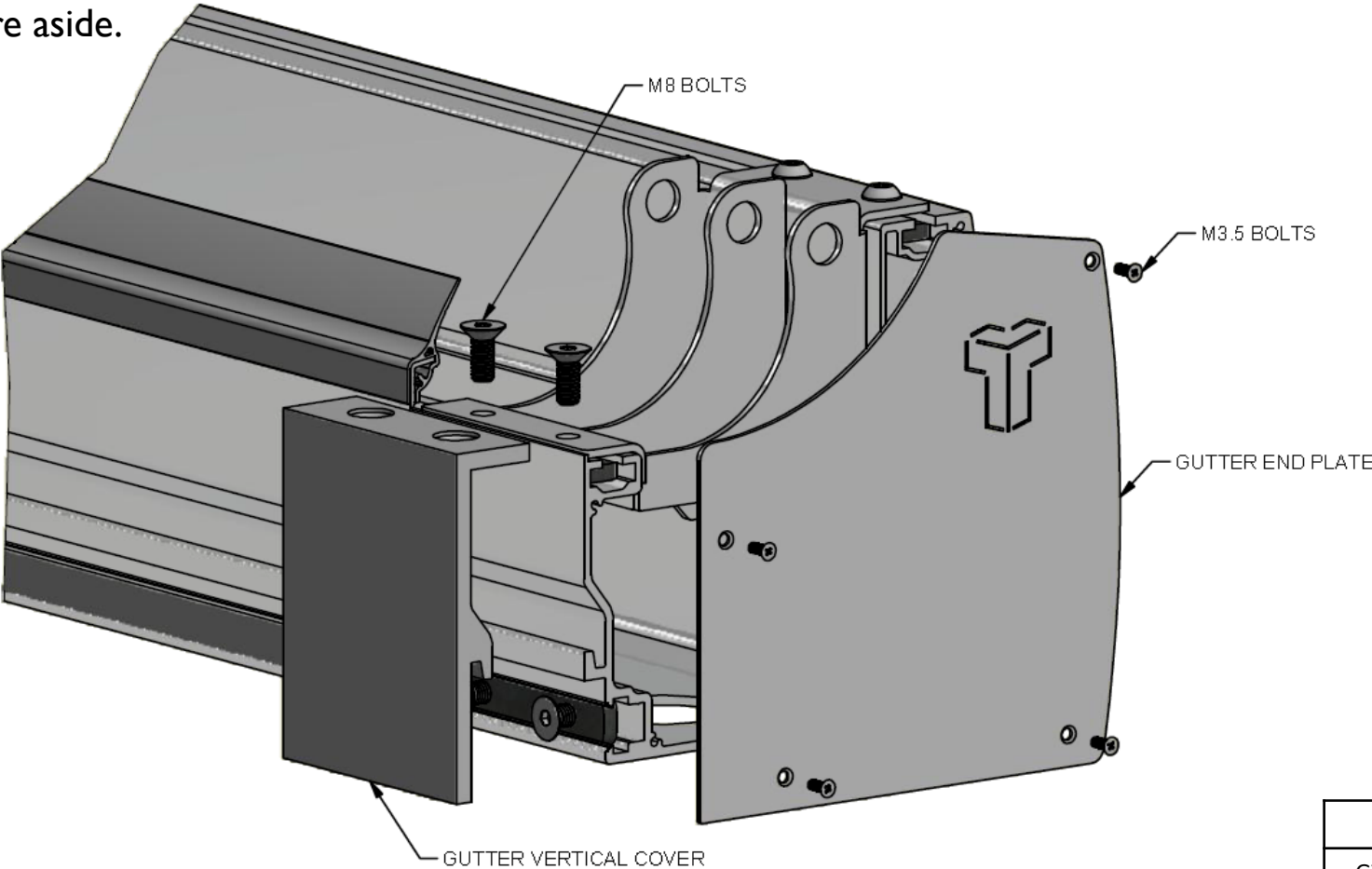
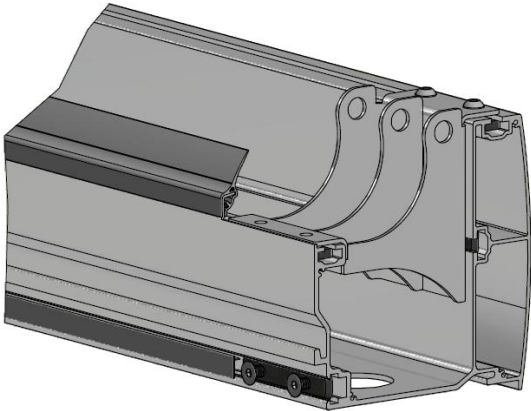




# Gutters

## Prepare Gutter

Prepare the gutter assembly for installation by first removing the four M3.5 bolts and gutter end plates. Remove the gutter vertical cover and M8 bolts if present. Set these plates and hardware aside.



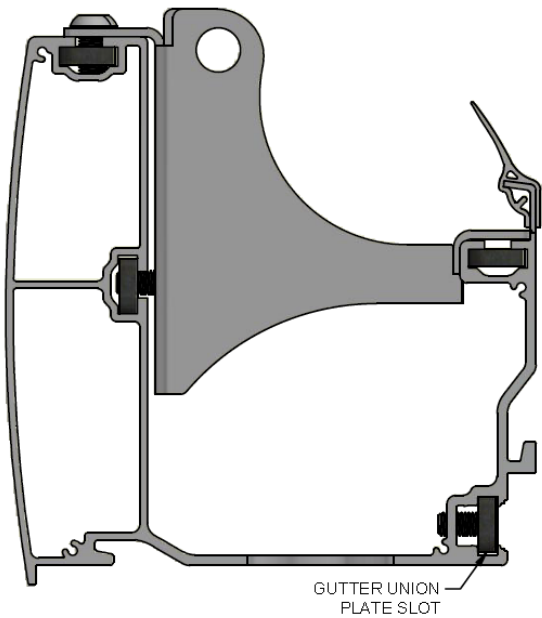
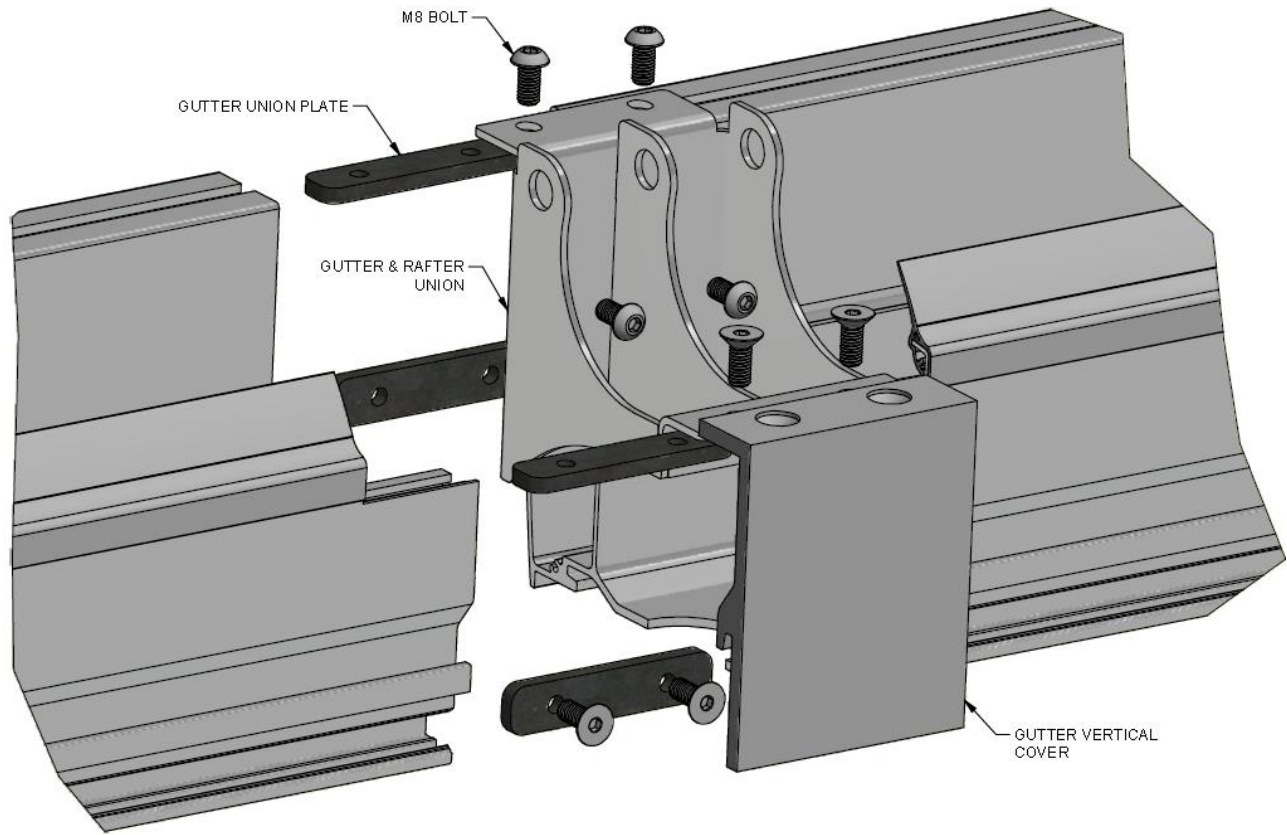
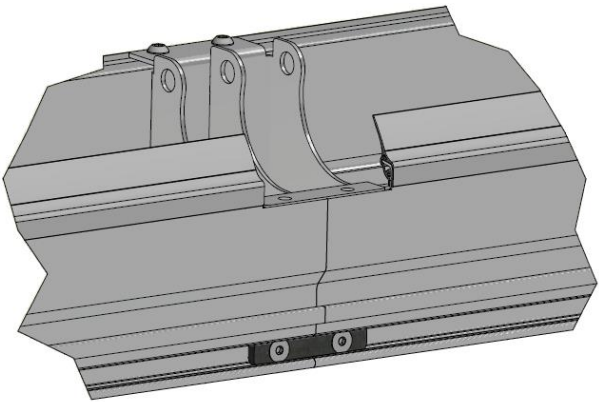
Configuration		
GZ	WP	BW
X	X	

# Gutters

## Connect Gutter Joints

When multiple gutter pieces are present, connect the intermediate joints using the supplied union plates and M8 hardware. Remove the gutter vertical cover and M8 hardware if present. Set these plates and hardware aside.

*Note: All weldments and hardware for this connection can be found partially assembled on an end of an intermediate gutter.*



Side View

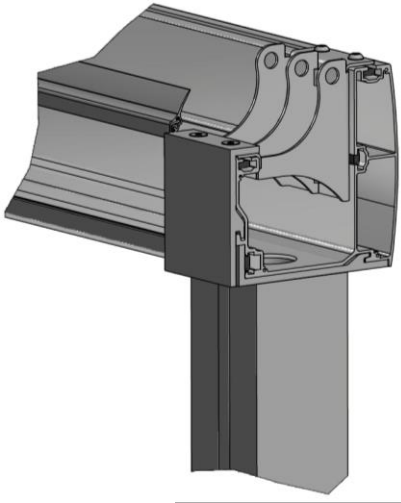
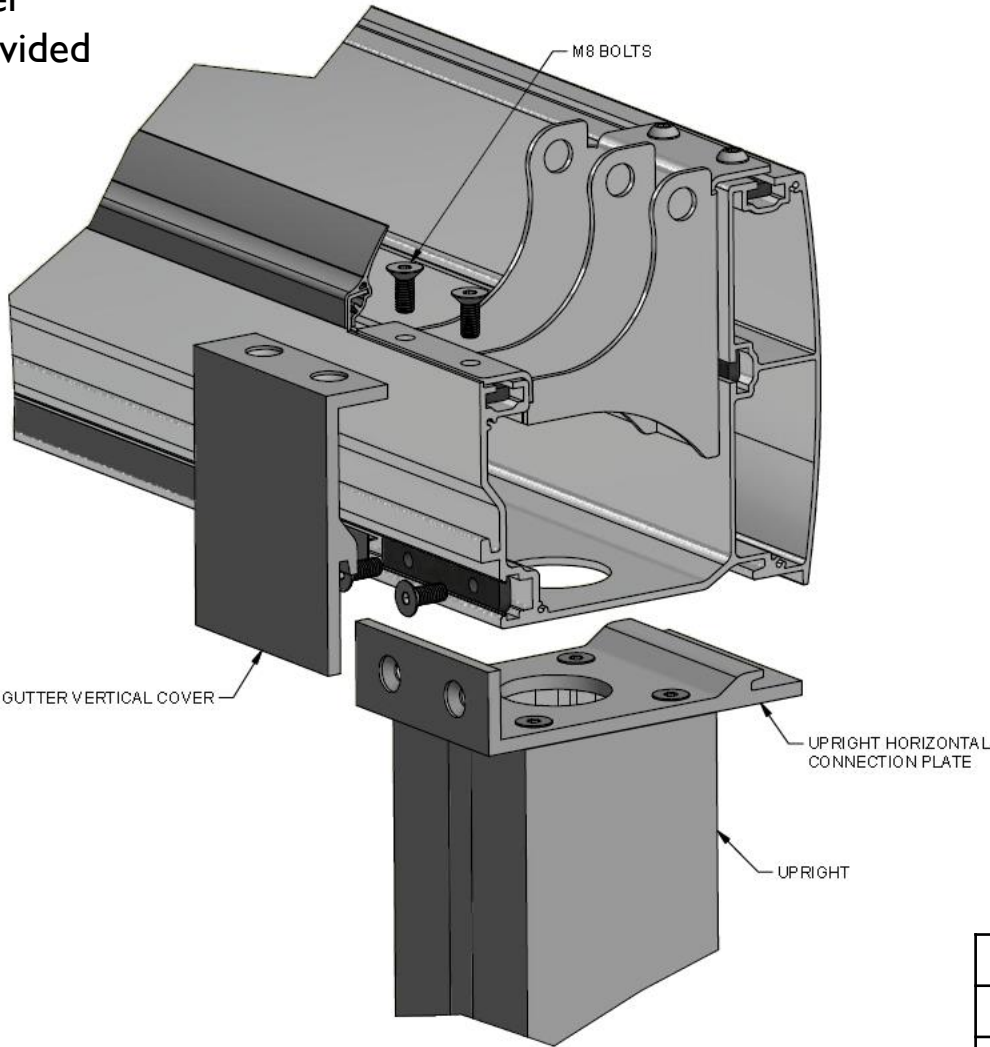
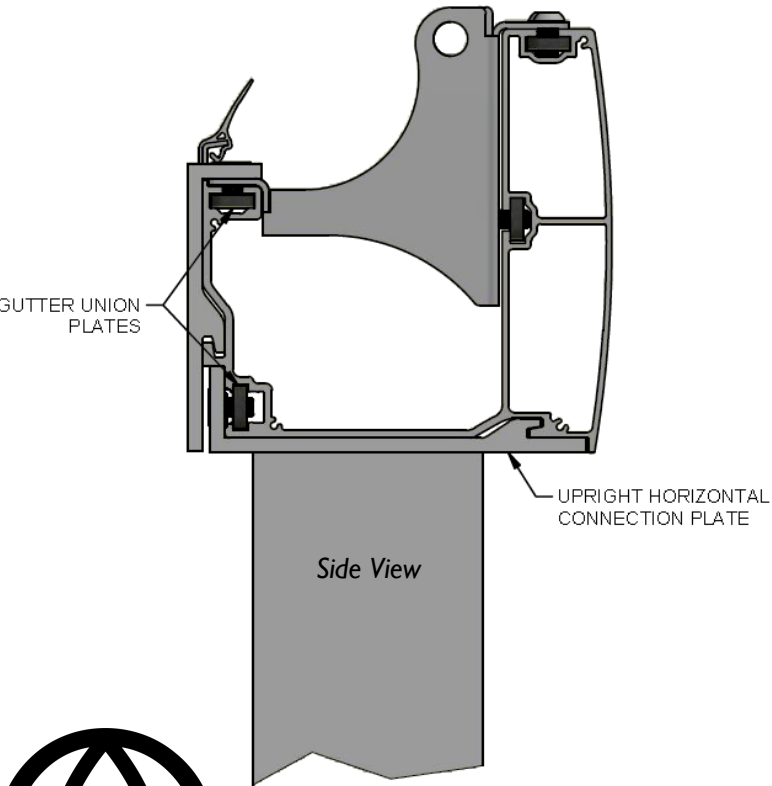
Configuration		
GZ	WP	BW
X	X	



# Front Uprights

## Connect Uprights to Gutter Assembly

Connect the front uprights to the gutter assembly by connecting the upright horizontal connection plates to the gutter union plates using the provided M8 hardware. If lateral beams are not present, re-attach the gutter vertical cover to the gutter assembly using the provided M8 hardware.



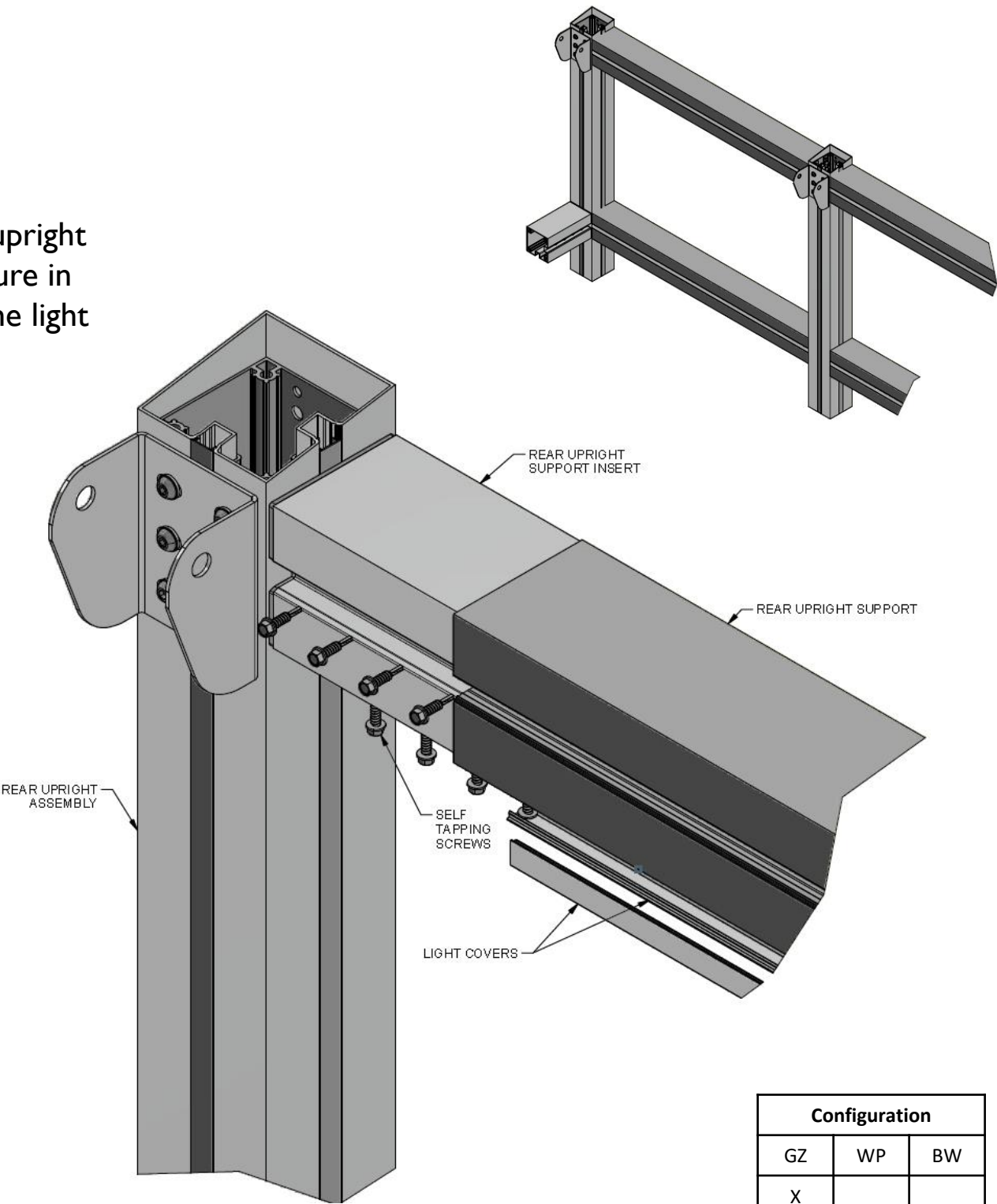
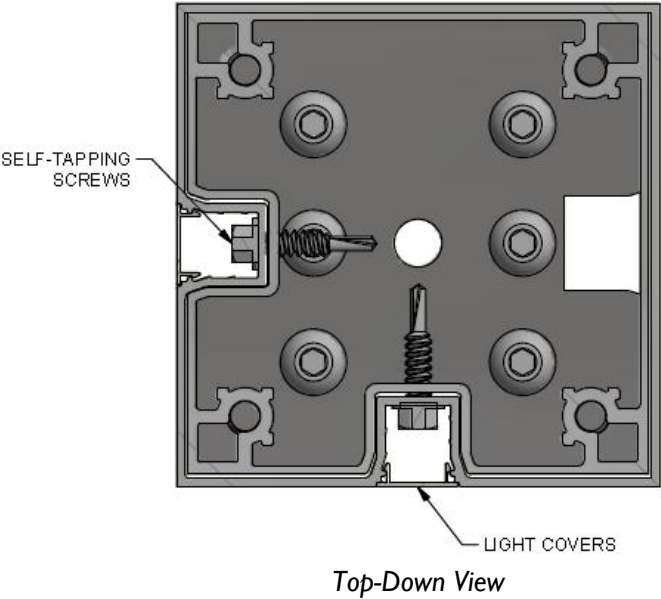
Configuration		
GZ	WP	BW
X	X	

# Rear Uprights

## Connect Rear Uprights with Supports

Join the rear upright assemblies by sliding the rear upright supports over the rear upright support inserts. Secure in place using the provided self tapping screws. Snap the light covers into the rear upright supports.

*Note: Two Rear Upright Supports present per bay.*



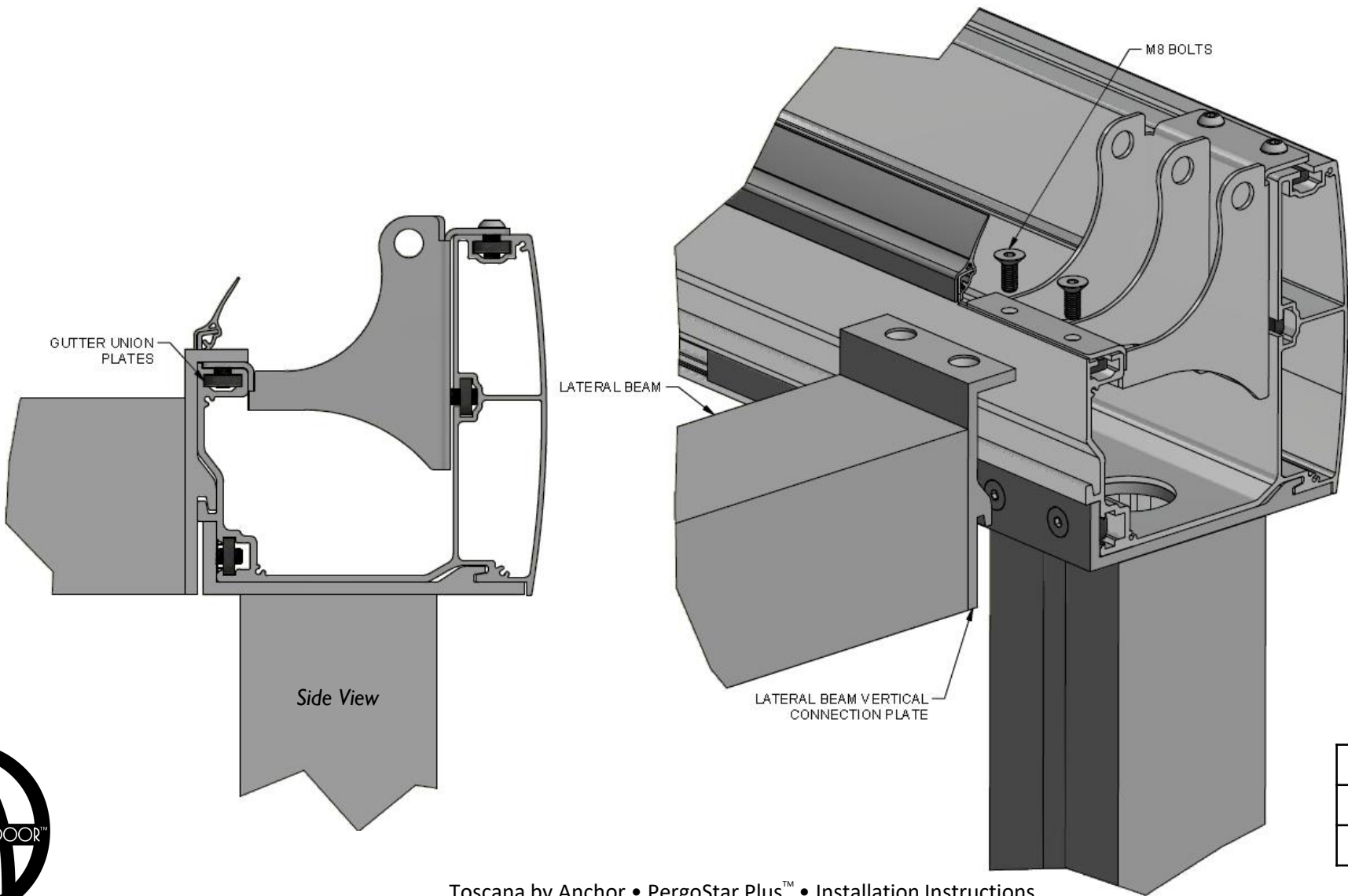
Configuration		
GZ	WP	BW
X		



# Lateral Beams

## Lateral Beams to Gutter Assembly

Secure the lateral beam to the gutter assembly by connecting the lateral beam vertical connection to the gutter union plates using the provided M8 hardware.



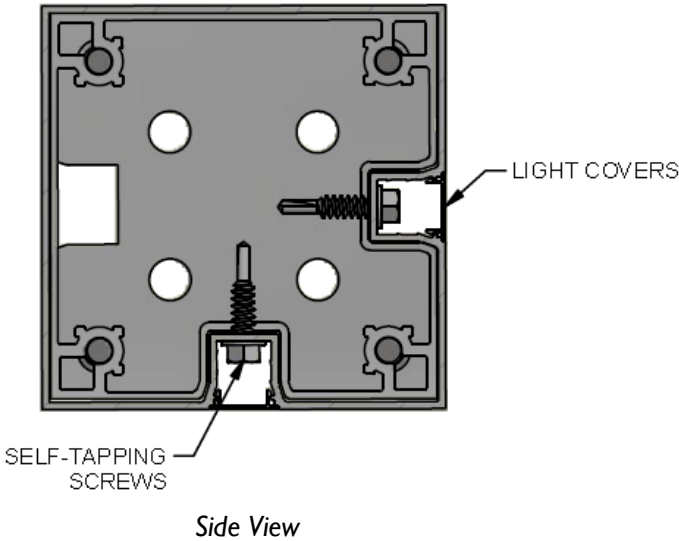
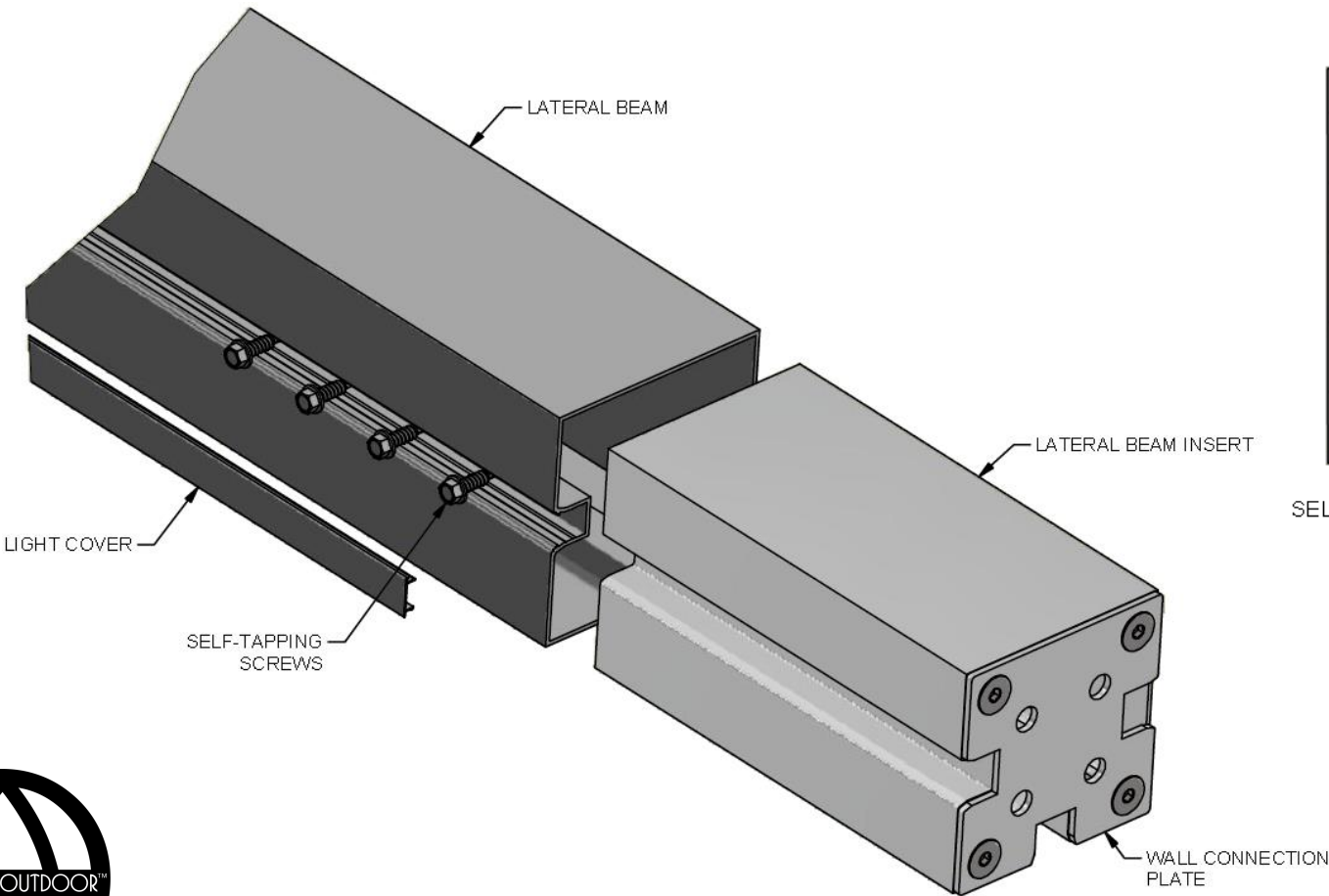
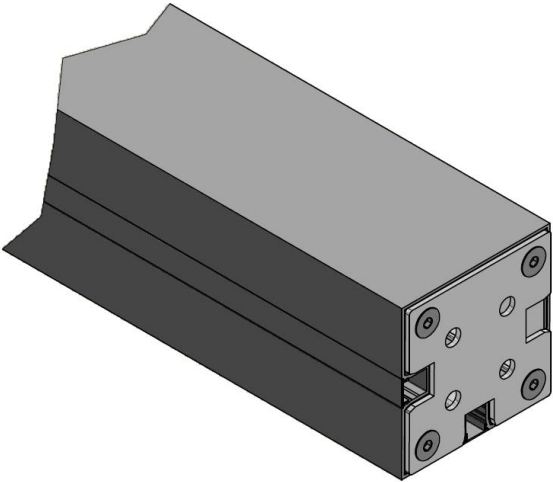
Configuration		
GZ	WP	BW
X	X	

# Lateral Beams

## Lateral Beams to Wall

Connect the lateral beam to the wall by removing the lateral beam insert and anchoring to the appropriate location. Secure the lateral beam to the lateral beam insert using the provided self-tapping screws. Snap the light covers into the lateral beam.

*Note: Wall anchors not provided.*

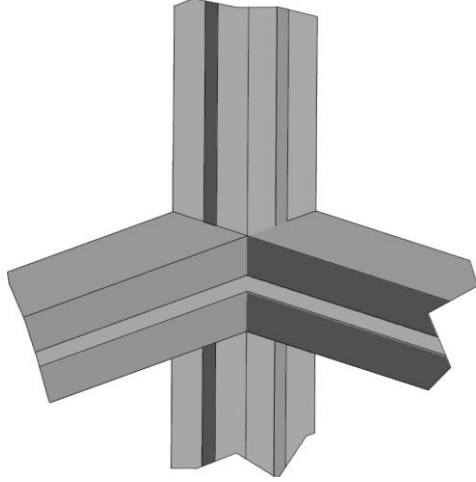
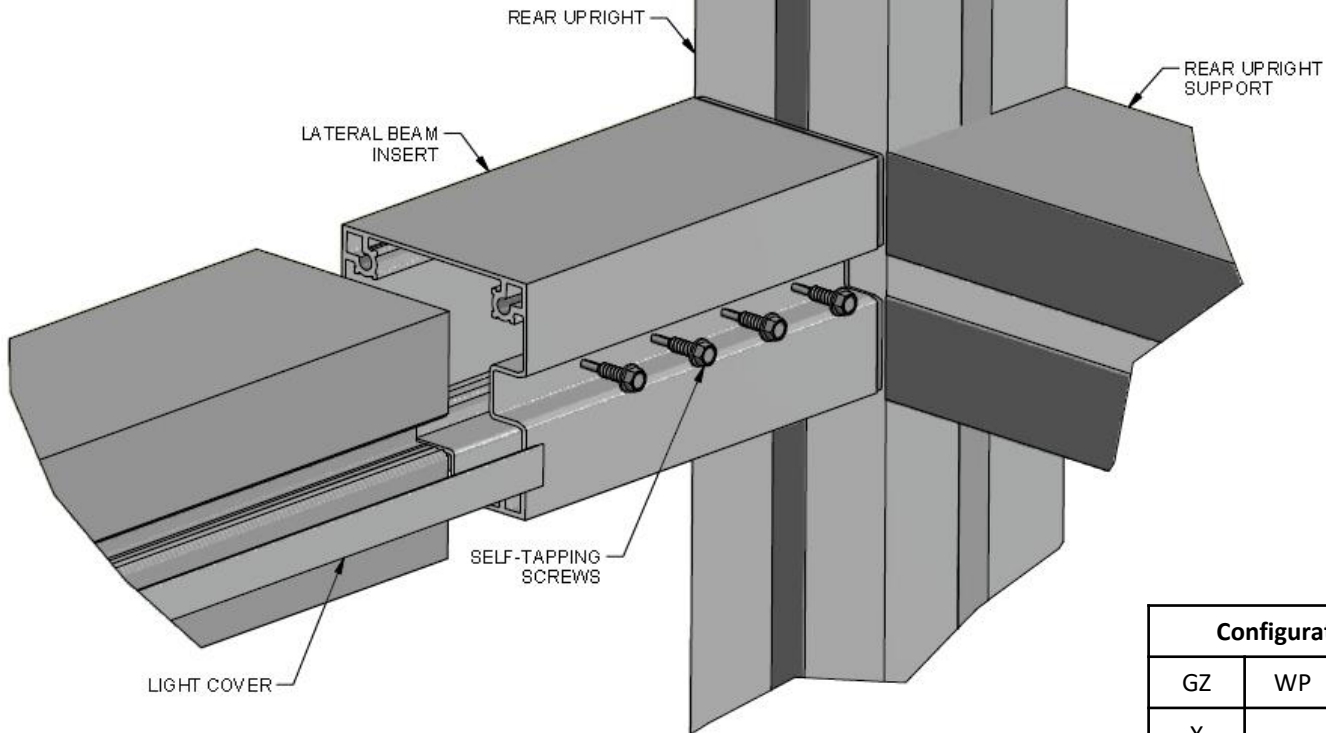
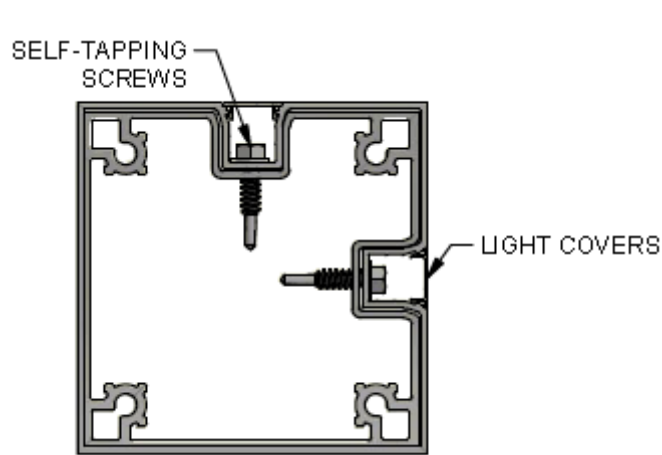


Configuration		
GZ	WP	BW
	X	

# Lateral Beams

## Lateral Beams to Rear Upright Assembly

Attach the lateral beam to the rear upright assembly by sliding the lateral beam over the lateral beam insert. Secure in place using the provided self tapping screws. Snap the light covers into the lateral beams.

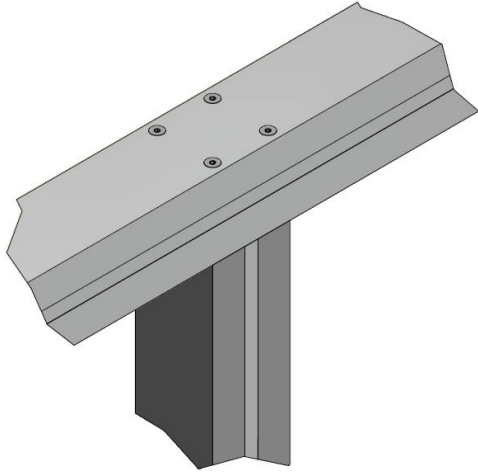
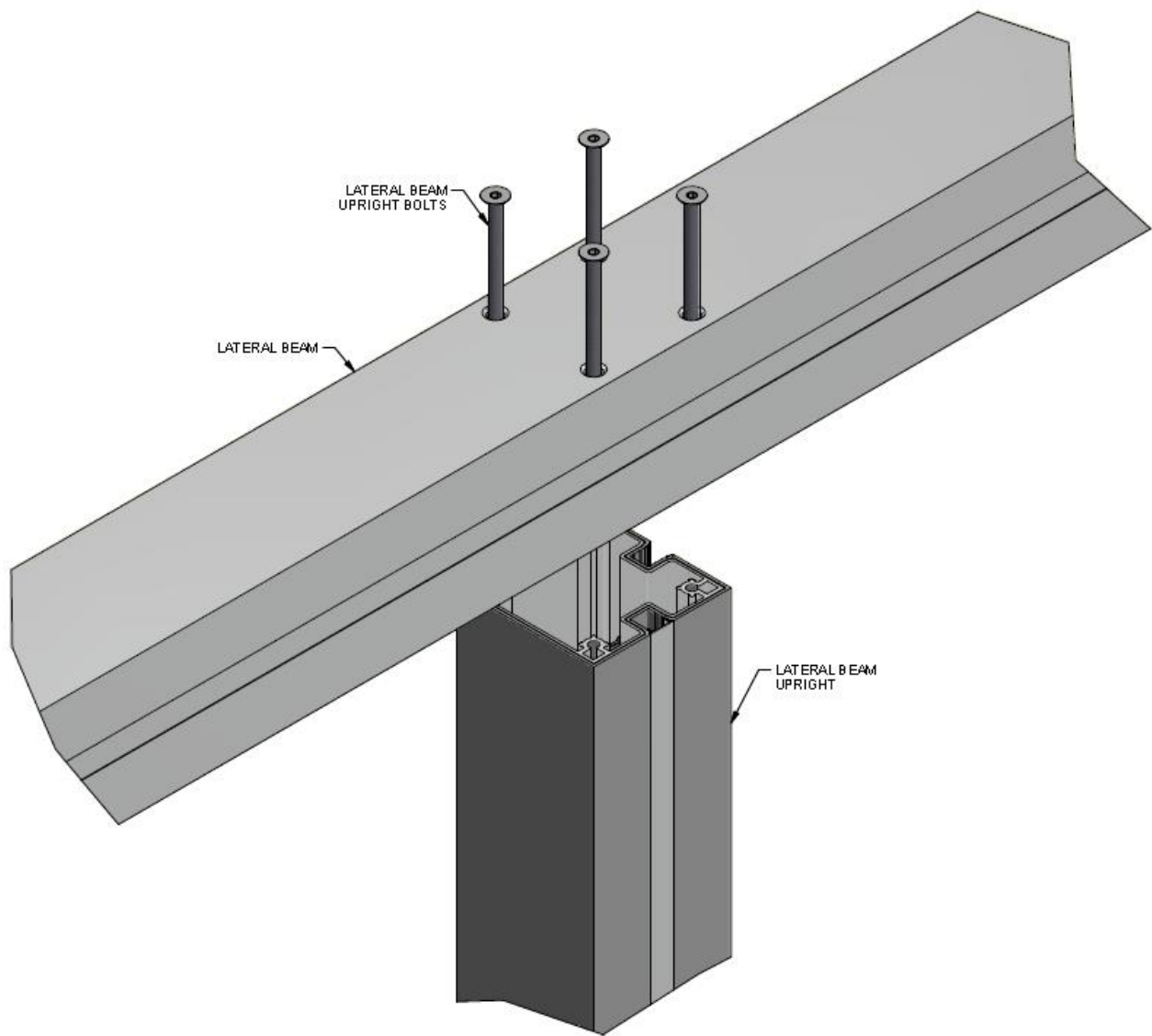


Configuration		
GZ	WP	BW
X		

# Lateral Beam Uprights

*Lateral Beam Uprights to Lateral Beams*

Attach the lateral beam upright to the lateral beam using the provided lateral beam upright bolts.



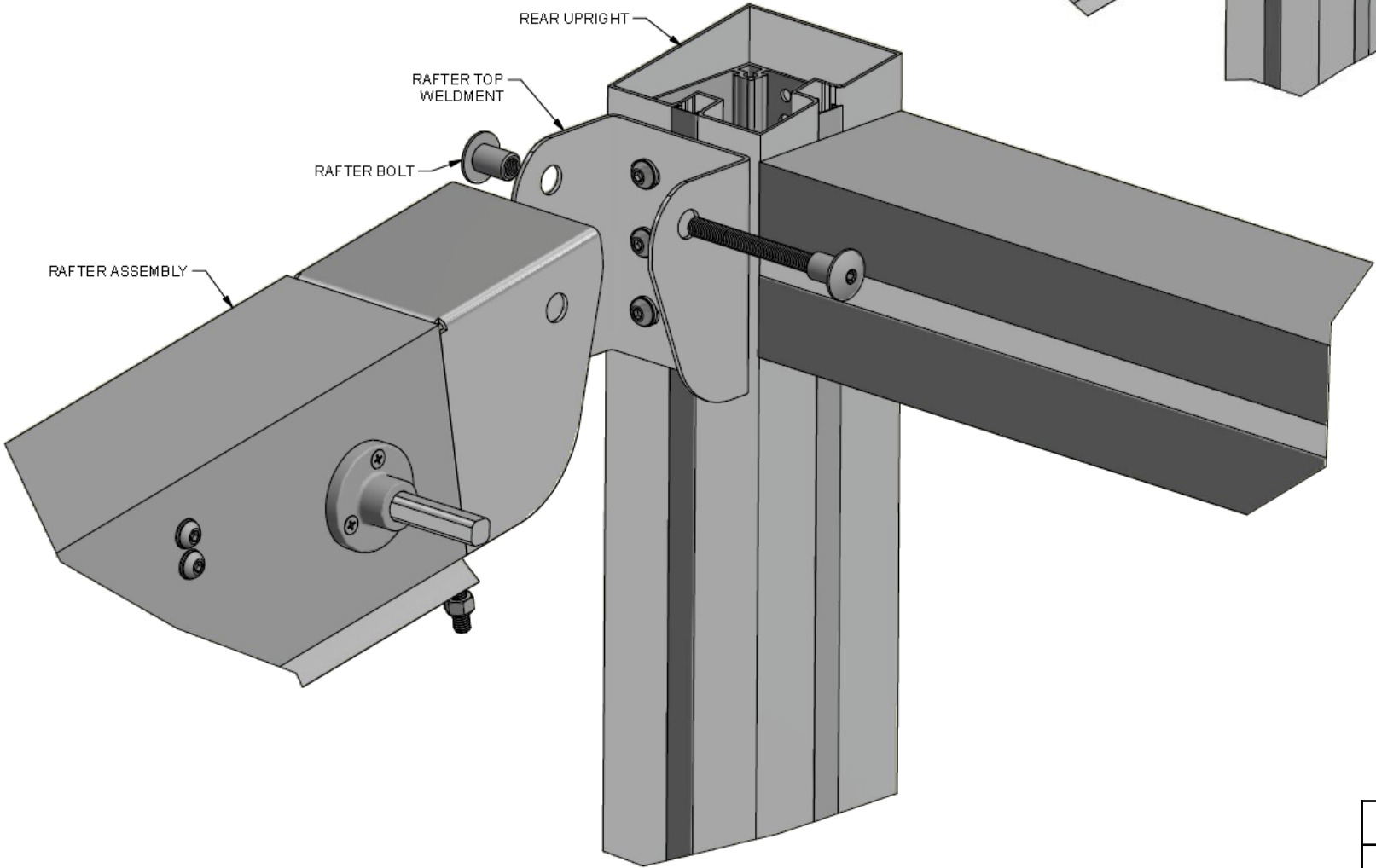
Configuration		
GZ	WP	BW
X	X	



# Rafters

## Rafter Top to Rear Upright

Secure the rafter to the rear upright assembly by mounting the rafter to the rafter top weldment using the supplied rafter bolt.



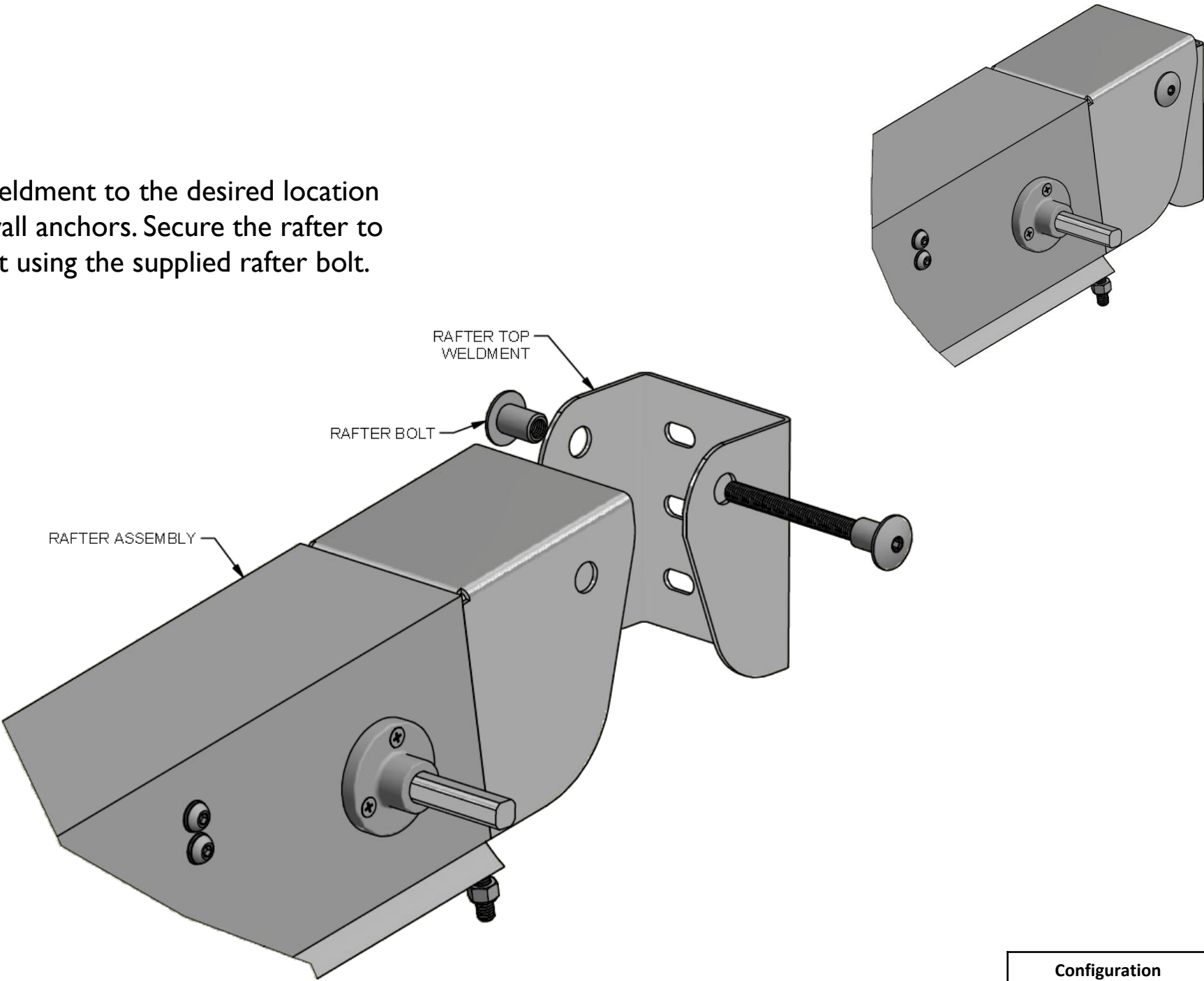
Configuration		
GZ	WP	BW
X		

# Rafters

## Rafter Top to Wall

Mount the rafter top weldment to the desired location using the appropriate wall anchors. Secure the rafter to the rafter top weldment using the supplied rafter bolt.

*Note:* Wall Anchors not supplied.

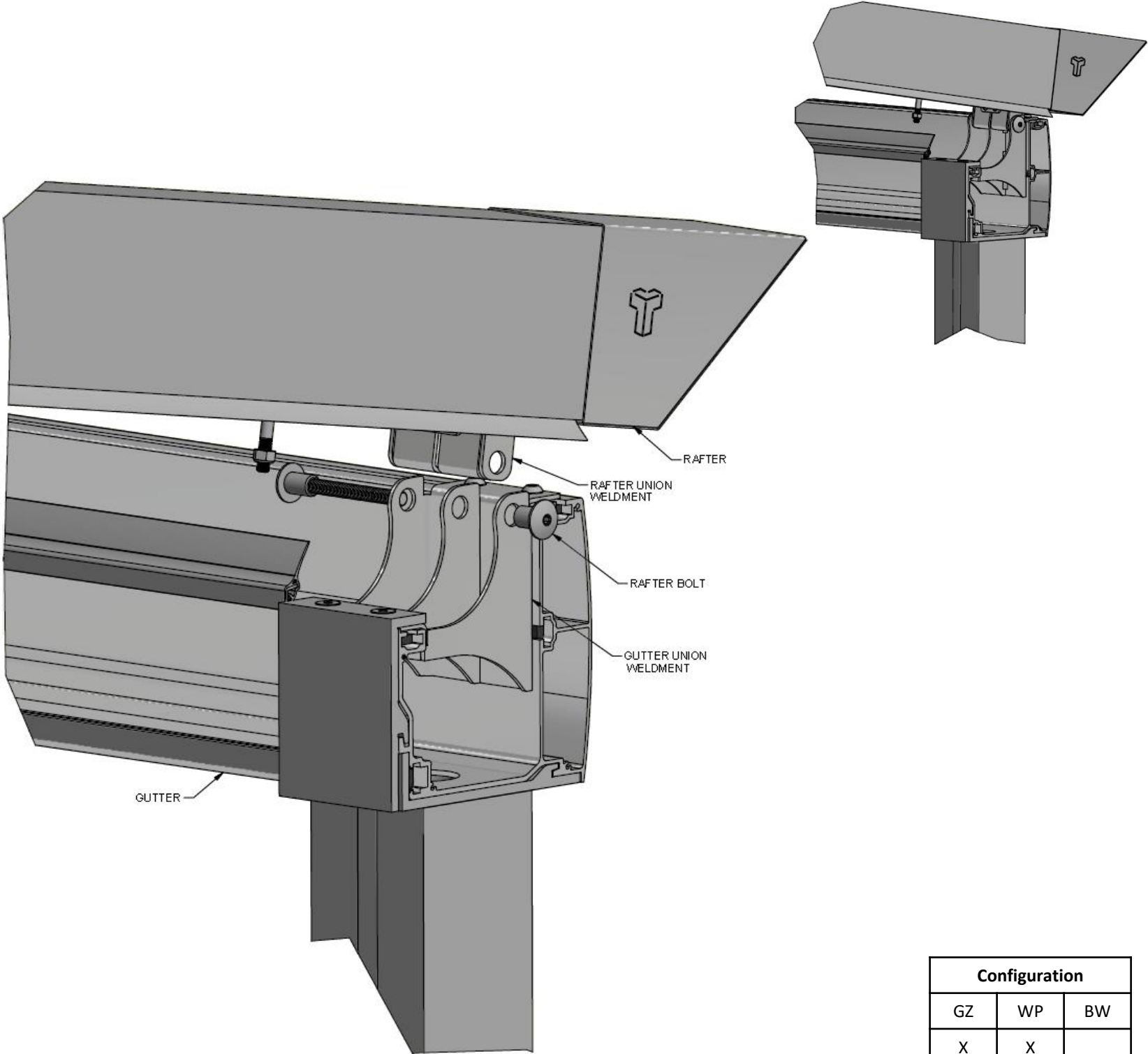


Configuration		
GZ	WP	BW
	X	X

# Rafters

## Rafter End to Gutter

Attach the rafter end to the gutter by lining up the rafter union and gutter union weldments and securing in place using the supplied rafter bolt.



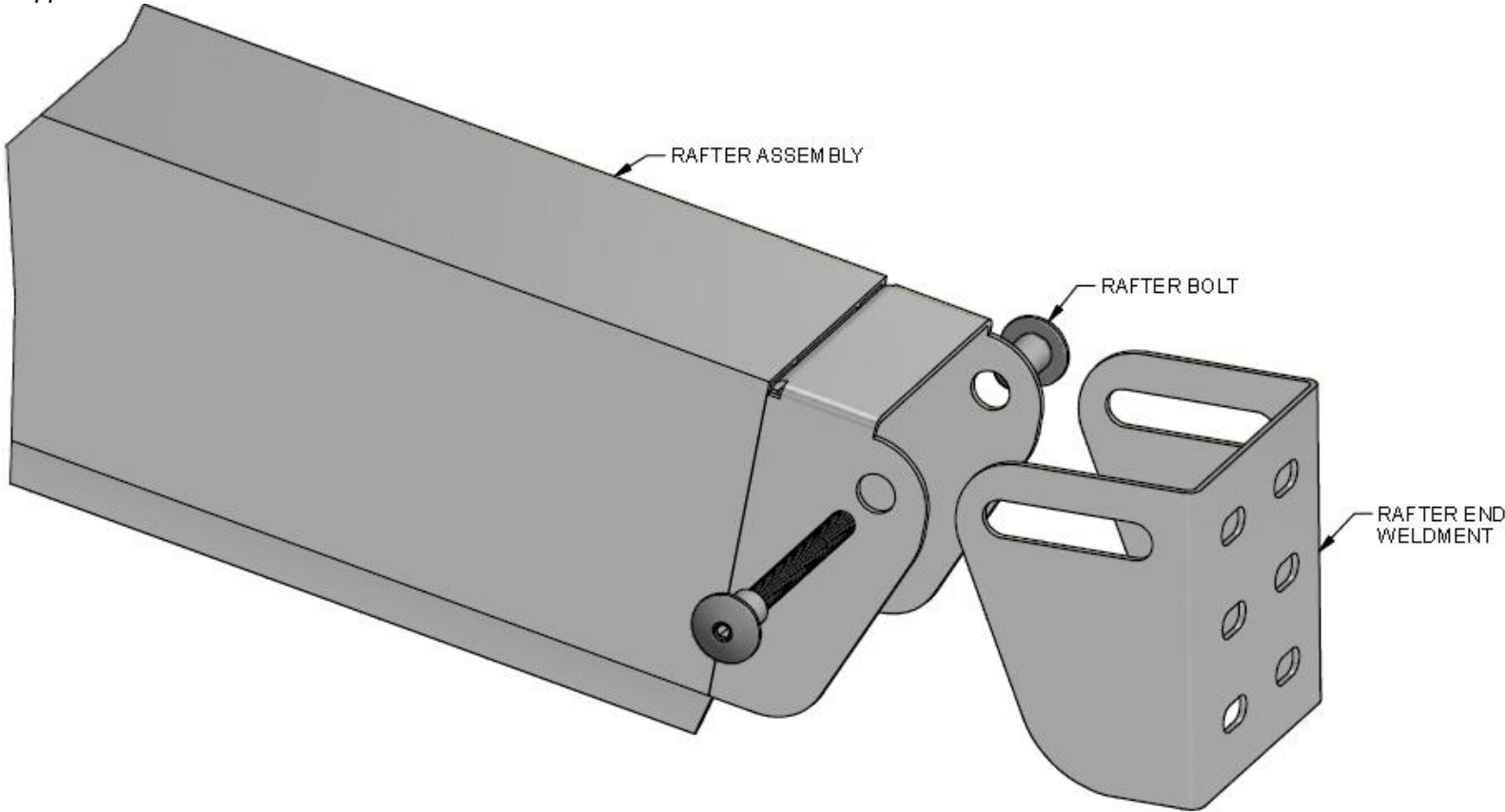
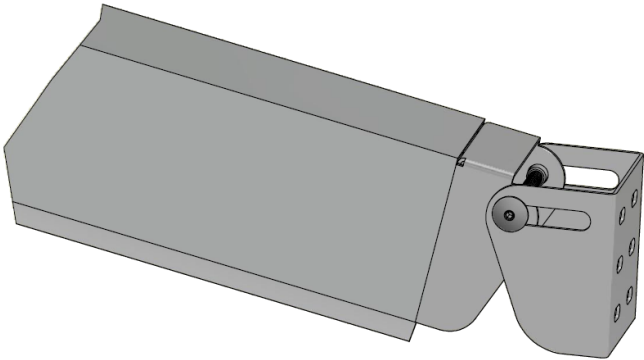
Configuration		
GZ	WP	BW
X	X	

# Rafters

## Rafter End to Wall

Mount the rafter end weldment to the desired location using the appropriate wall anchors. Secure the rafter to the rafter end weldment using the supplied rafter bolt.

*Note:* Wall Anchors not supplied.



Configuration		
GZ	WP	BW
		X

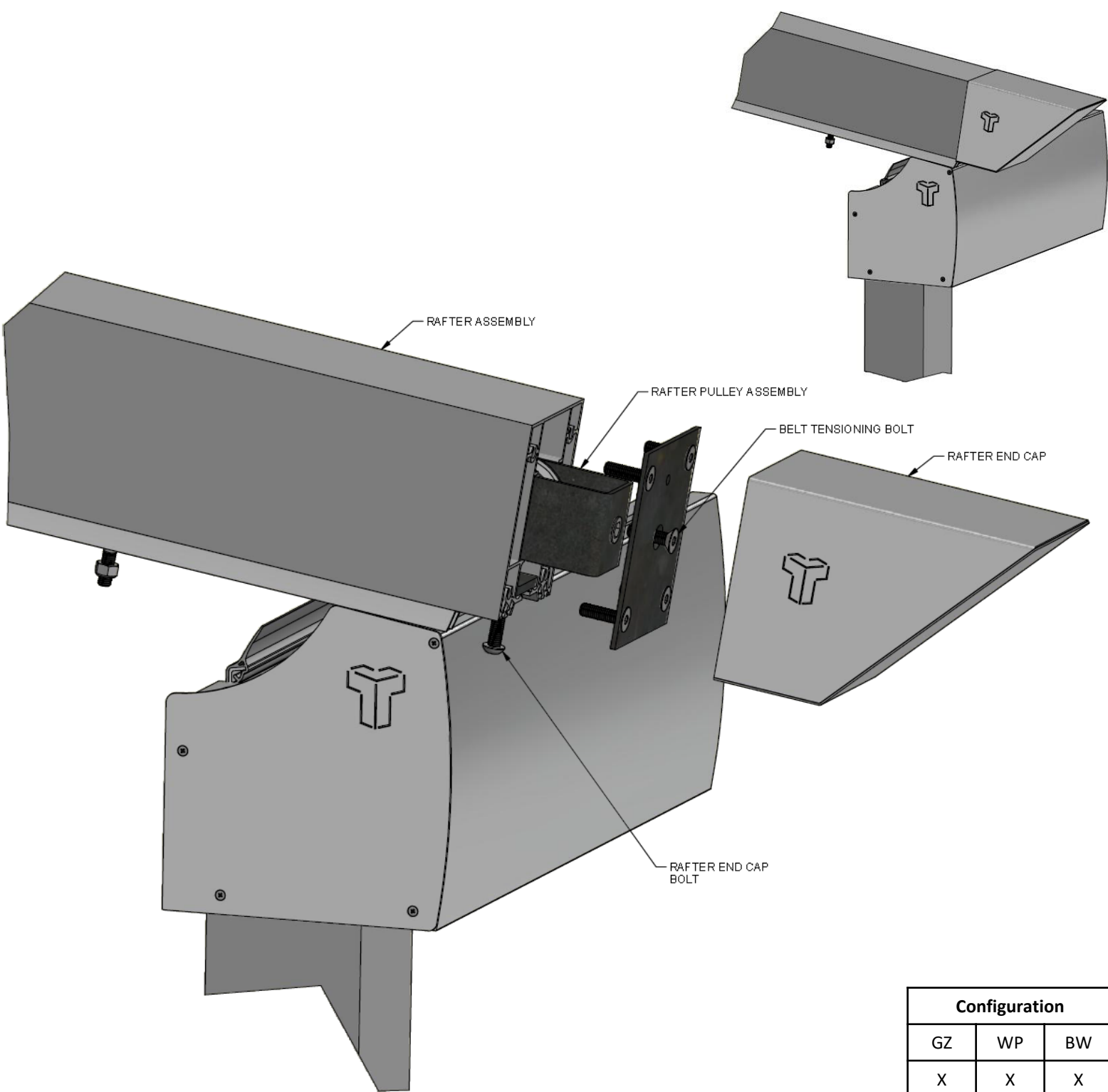
# Rafters

## Rafter Belt Tension

Check the tension on the rafter belt by first removing the rafter end cap, which is held in place by the rafter end cap bolt and square nut located on the bottom side of the rafter. Tension the rafter belt by tightening the belt tensioning bolt. This bolt is connected to an internal pulley assembly. All belts should have similar tension.

In between wall configurations, the belt tensioning bolt can be found in a similar location near the rafter end weldment.

*Note: It is not necessary to remove the rafter end plate to complete this step. The belt should have enough tension that it pushes back, similar to the feeling of the meaty part of your palm.*



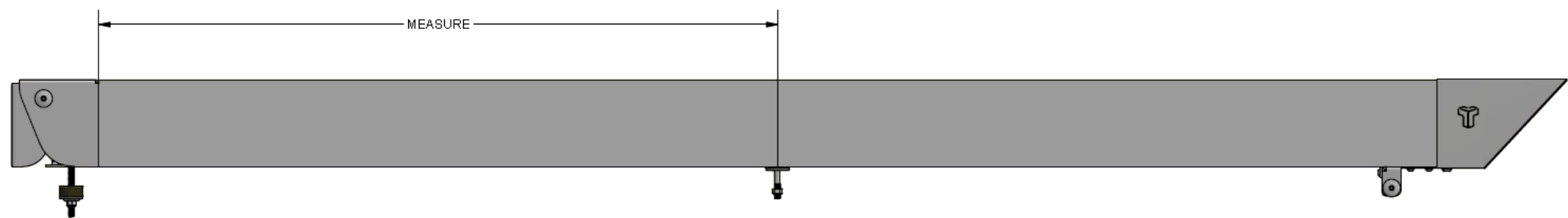
Configuration		
GZ	WP	BW
X	X	X

# Rafters

## Pre-Set Trolley Location

Before attaching the transmission tubes, it is important to set the lead trolley in the same location along each rafter. Measure from a set point a distance roughly half-way from the rafter's end. Align the center of the trolley with this point and mark this measurement using a piece of tape or other available material.

*Note: It is important to ensure that the lead trolley is at least a few feet from each end of the rafter. During configuration of the motor, it is possible that the direction the motor rotates has been reversed and will need to be adjusted. Not having adequate distance between the lead trolley and the end of the rafter could result in over-extending or over-retracting your pergola, which could result in damage to the belt.*

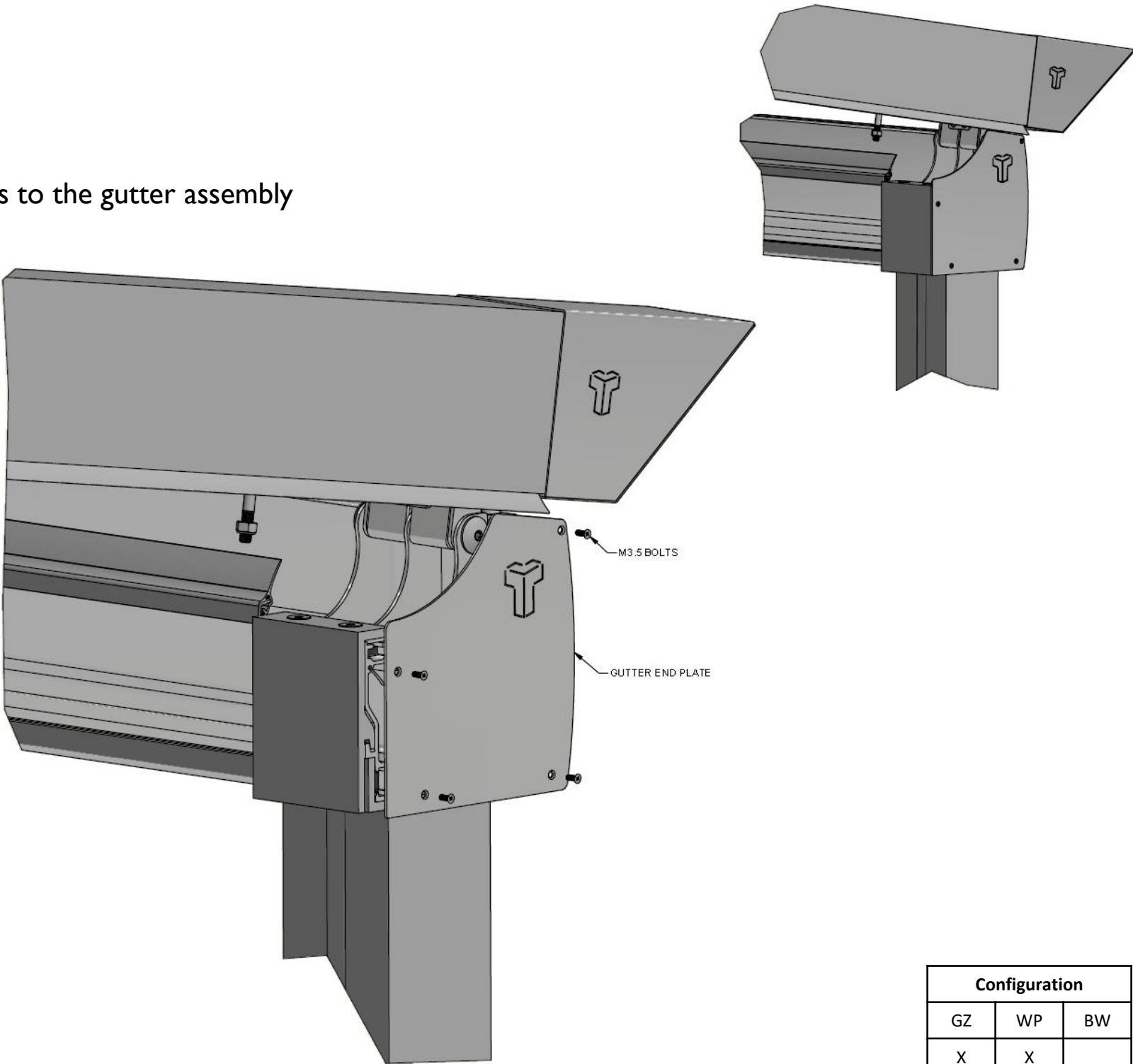


Configuration		
GZ	WP	BW
X	X	X

# Gutters

## Re-attach Gutter End Plates

Re-attach the gutter ends plates to the gutter assembly using the provided M3.5 bolts.



Configuration		
GZ	WP	BW
X	X	

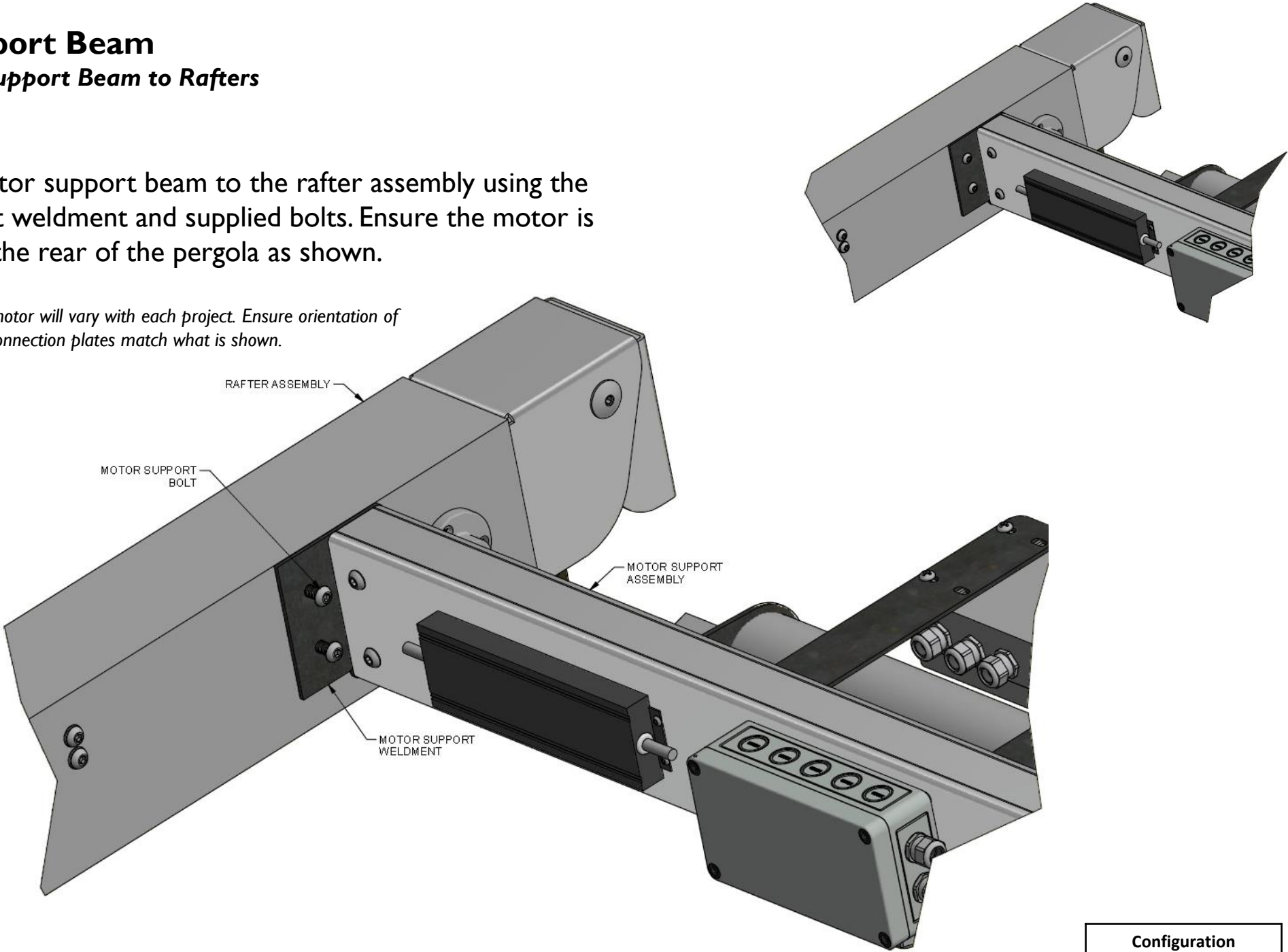


# Motor Support Beam

*Install Motor Support Beam to Rafters*

Attach the motor support beam to the rafter assembly using the motor support weldment and supplied bolts. Ensure the motor is orientated to the rear of the pergola as shown.

*Note:* Location of the motor will vary with each project. Ensure orientation of motor support beam connection plates match what is shown.



Configuration		
GZ	WP	BW
X	X	X

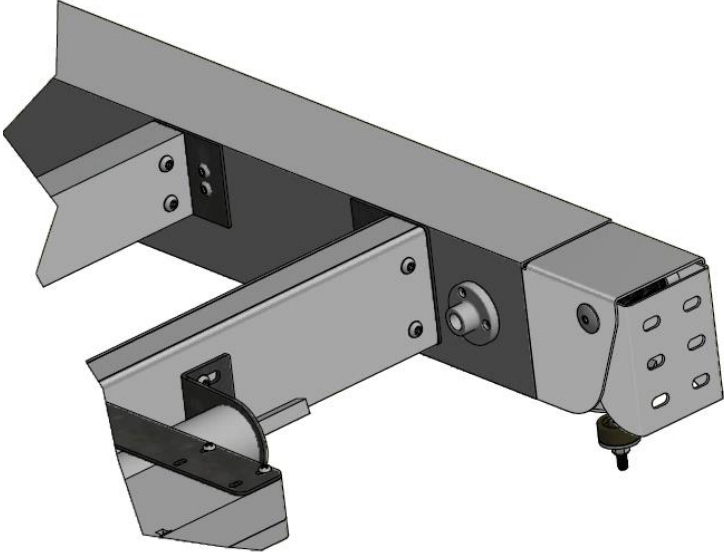
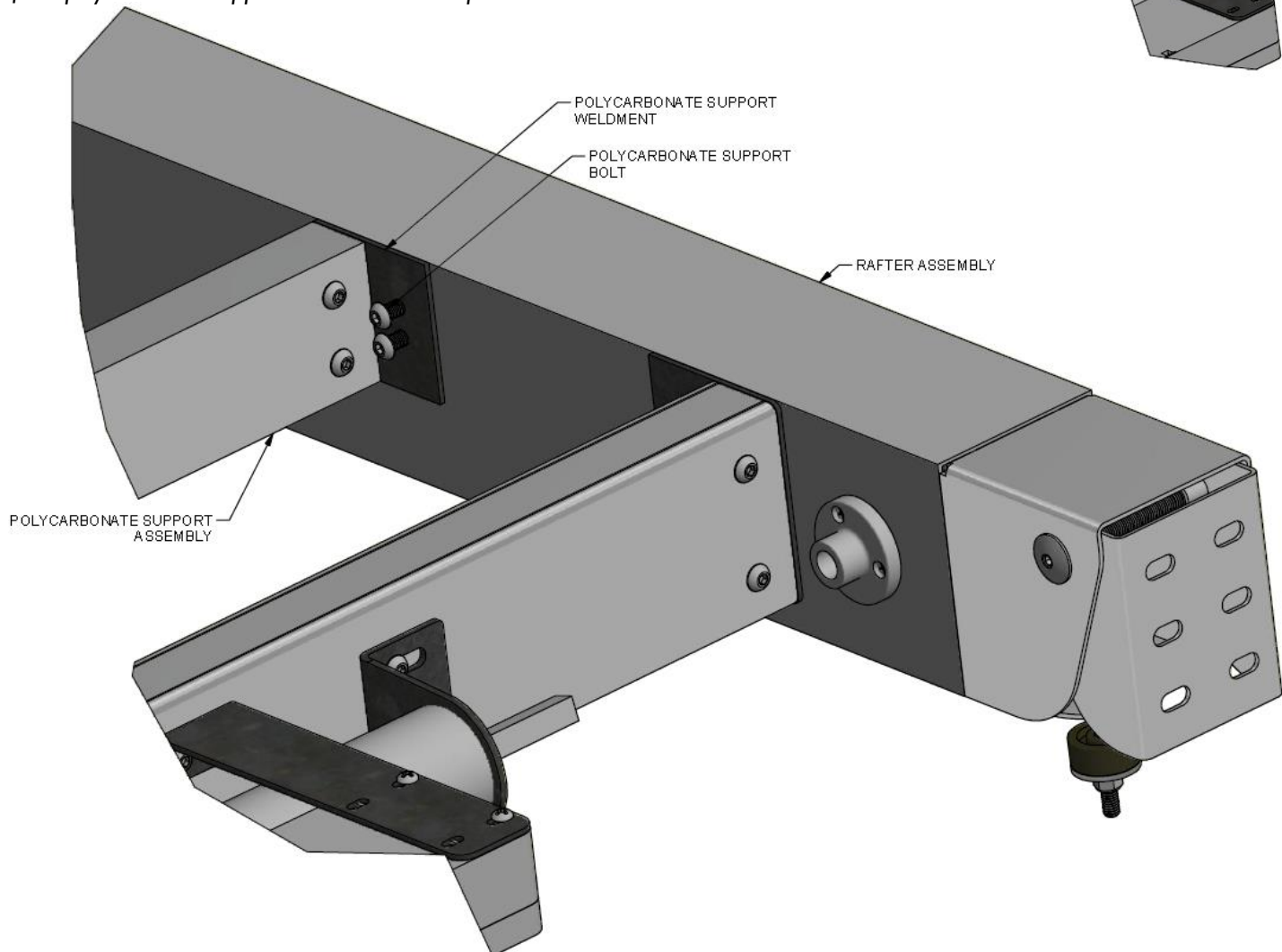


# Polycarbonate Support Beam

## Install Polycarbonate Support Beam to Rafters

Attach the polycarbonate support beam to the rafter assembly using the polycarbonate support weldment and supplied bolts.

*Note:* Pergolas with multiple bays will have two polycarbonate support beams per bay in any bay without the motor support beam. Ensure orientation of the polycarbonate support beam connection plates match what is shown.



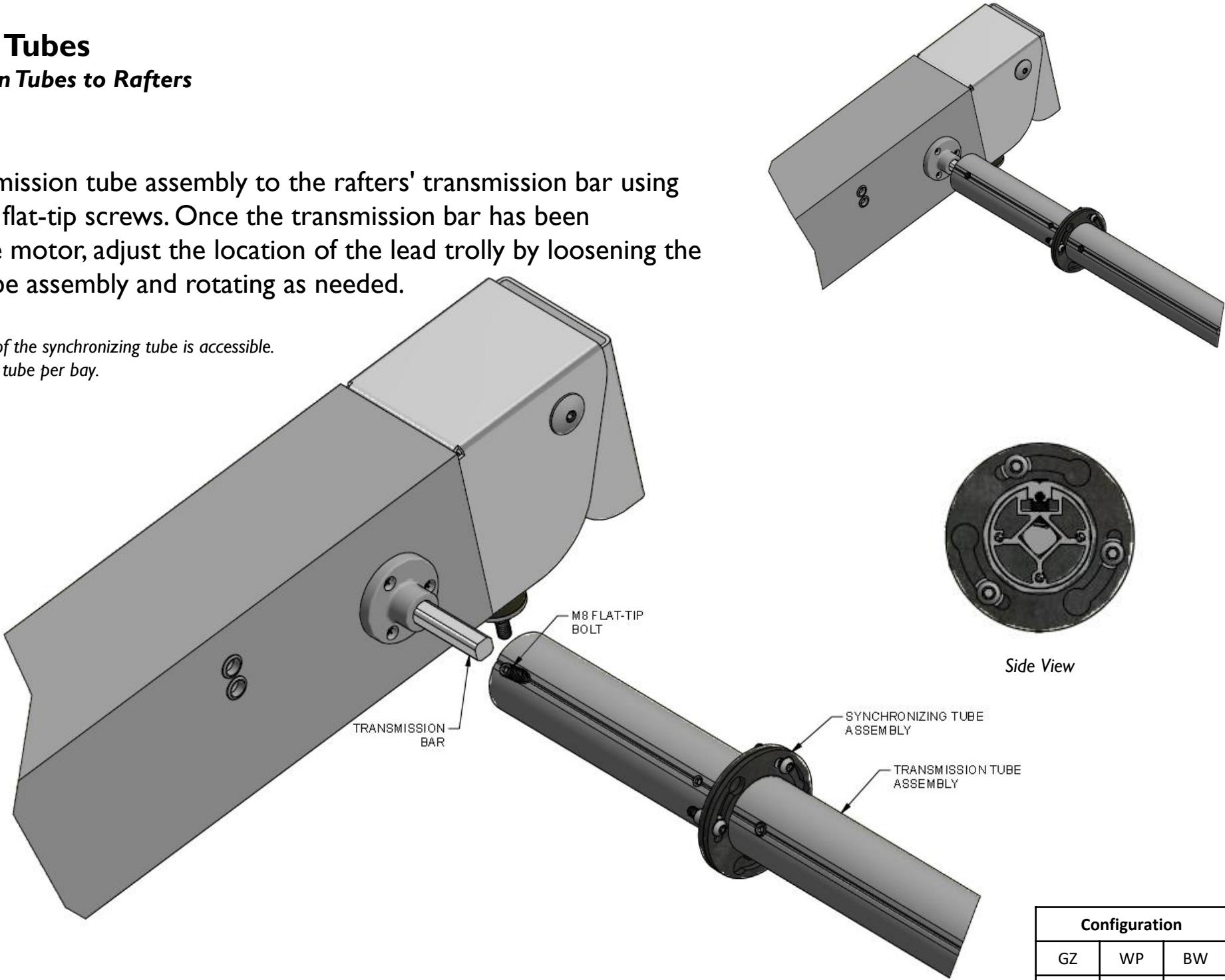
Configuration		
GZ	WP	BW
X	X	X

# Transmission Tubes

## Install Transmission Tubes to Rafters

Attach the transmission tube assembly to the rafters' transmission bar using the provided M8 flat-tip screws. Once the transmission bar has been connected to the motor, adjust the location of the lead trolley by loosening the synchronizing tube assembly and rotating as needed.

*Note:* Ensure the location of the synchronizing tube is accessible. There is one synchronizing tube per bay.



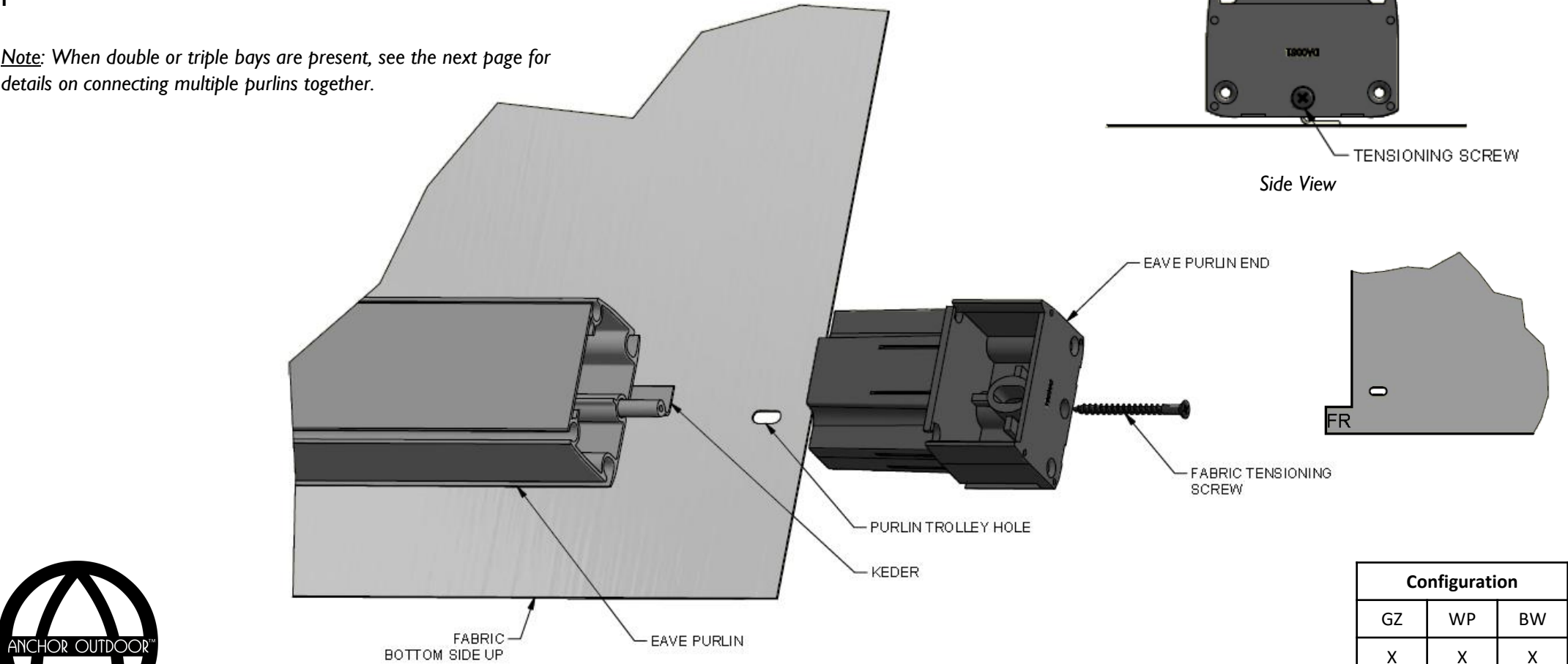
Configuration		
GZ	WP	BW
X	X	X

# Eave Purlin

## Prepare Lead Eave Purlin on Fabric

Prepare the fabric to be attached to the pergola frame by first sliding the eave purlin onto the front row of Keder. The fabric top will have a 1" x 1" tag to signify the front left (FL) or front right (FR) of the pergola. Insert the eave purlin end into the eave purlin. Tension the fabric by inserting the fabric tensioning screw into both ends of the eave purlin end. The screw will catch the hole inside the Keder. Tension both ends at the same time until the purlin trolley hole lines up with the corresponding hole inside the eave purlin end.

*Note: When double or triple bays are present, see the next page for details on connecting multiple purlins together.*

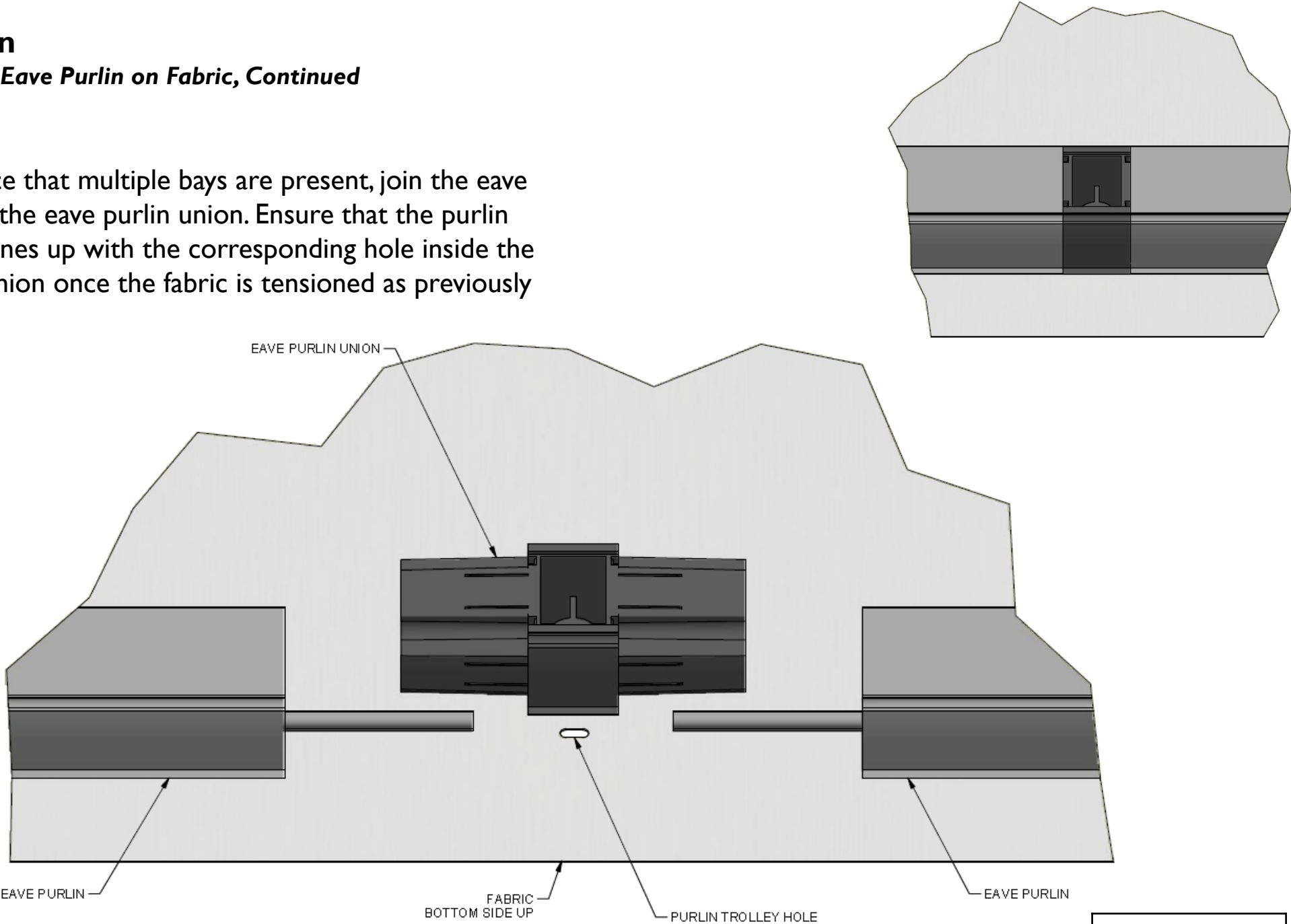


Configuration		
GZ	WP	BW
X	X	X

# Eave Purlin

## Prepare Lead Eave Purlin on Fabric, Continued

In the instance that multiple bays are present, join the eave purlins using the eave purlin union. Ensure that the purlin trolley hole lines up with the corresponding hole inside the eave purlin union once the fabric is tensioned as previously detailed.



Configuration		
GZ	WP	BW
X	X	X

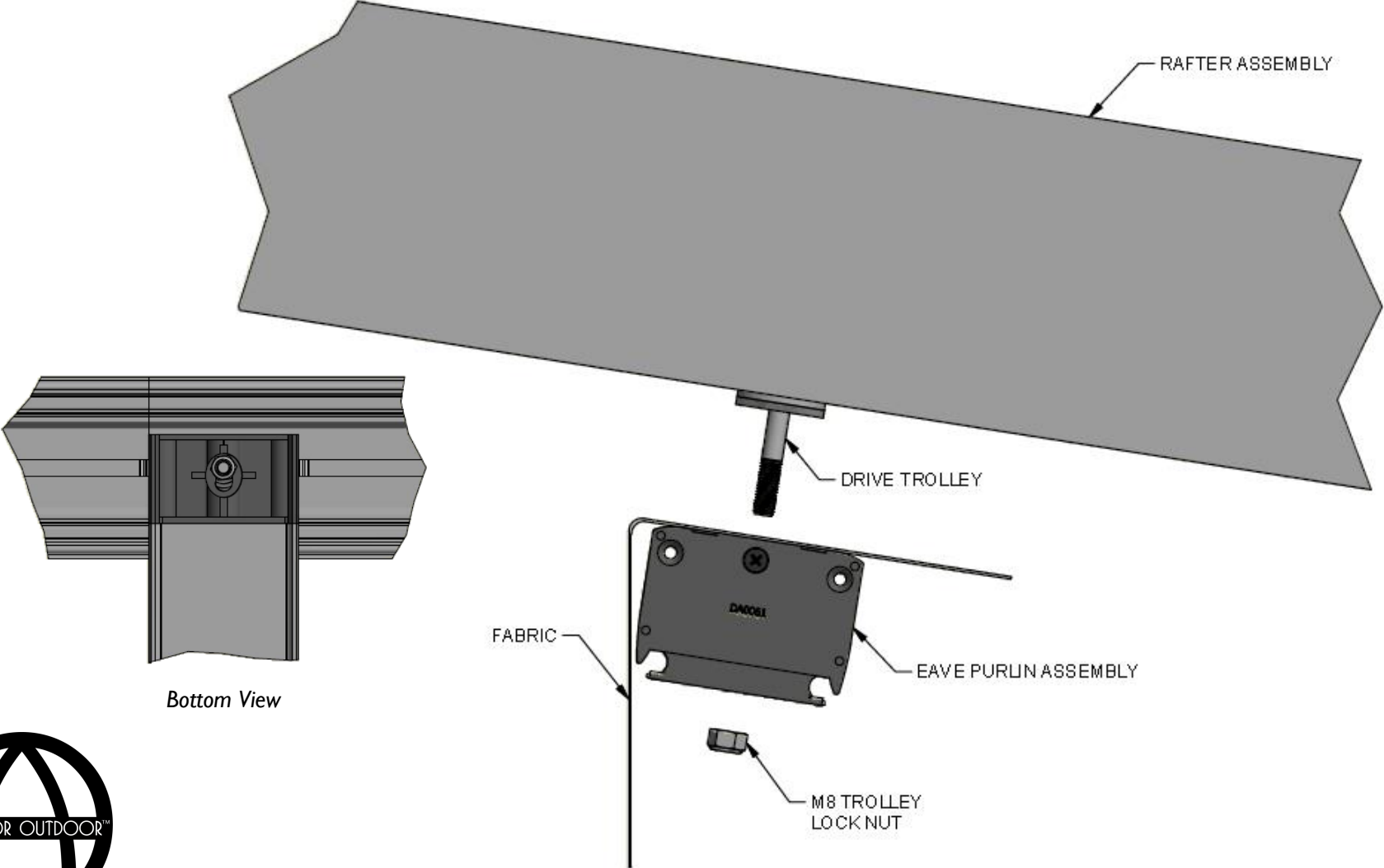
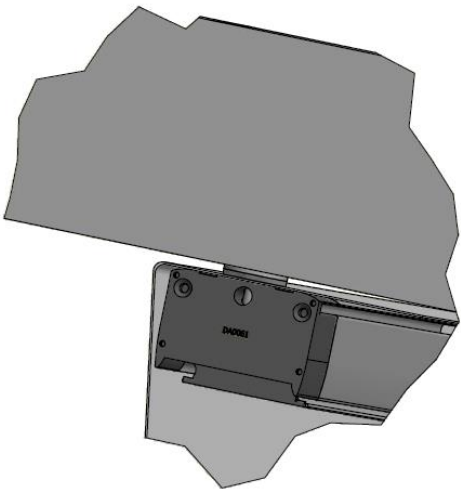
# Eave Purlin

## Install Eave Purlin and Fabric Assembly onto Pergola Frame

Secure the eave purlin and fabric assembly to the drive trolley using the provided M8 trolley lock nut.

*Note:* It is important that this step is completed simultaneously across all bays.

**Warning:** Tighten the lock nut just enough that the eave purlin and fabric assembly begin to touch the drive trolley's bushing.



Configuration		
GZ	WP	BW
X	X	X

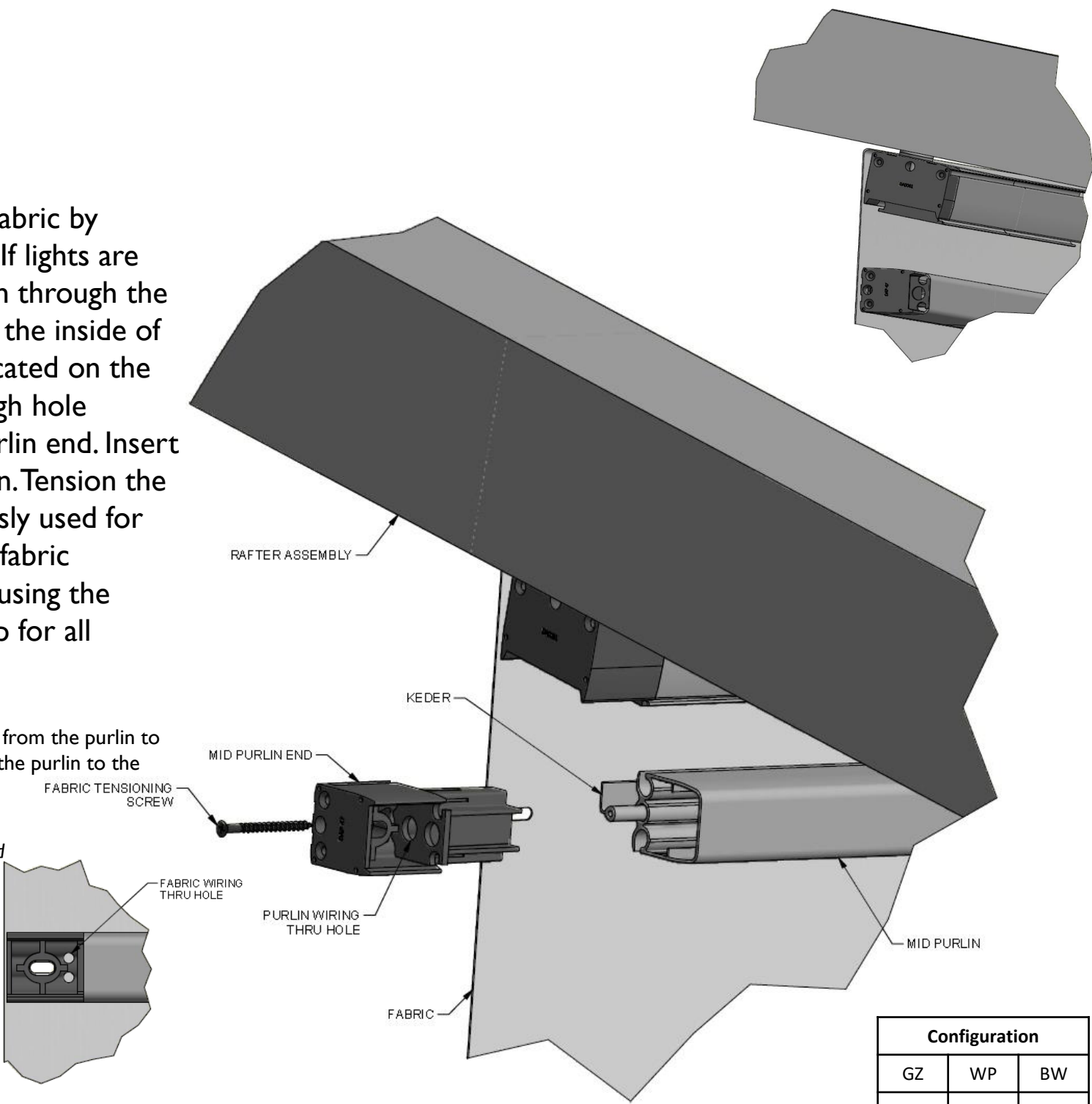
# Mid Purlins

## Prepare Mid Purlins on Fabric

Assemble next row of purlins to the fabric by sliding the mid purlin onto the Keder. If lights are present, feed the wire inside the purlin through the purlin wiring through hole located on the inside of the mid purlin end.\* Feed the wire located on the fabric through the fabric wiring through hole located on the top side of the mid purlin end. Insert the mid purlin end onto the mid purlin. Tension the fabric using the same method previously used for the eave purlin. Secure the purlin and fabric assembly to the next available trolley using the provided M8 lock nut. Repeat this step for all remaining mid purlin rows.

Complete the light wiring by connecting the **blue** wire from the purlin to the **smooth** wire of the fabric and the **red** wire from the purlin to the **ribbed** wire from the fabric.

*Note: When double or triple bays are present, connect the mid Purlin bays using the same method previously detailed for connecting eave purlin bays. \*If lighting is present, connect the wires prior to installing the purlin union.*

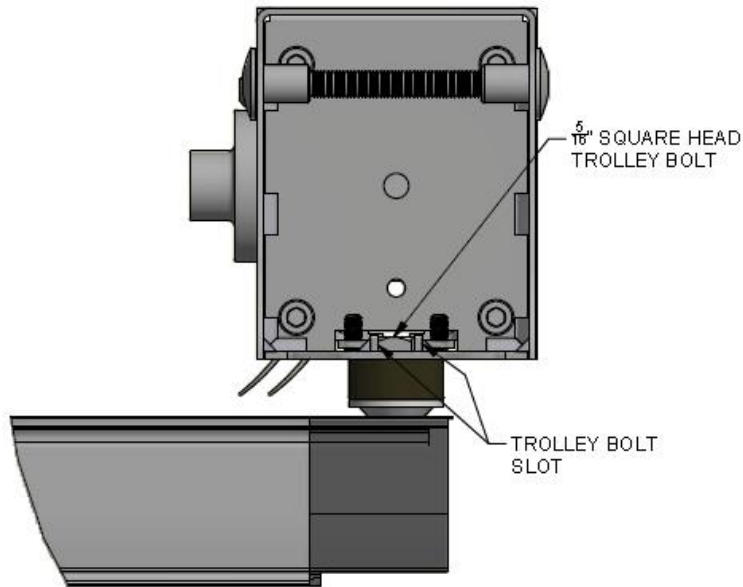
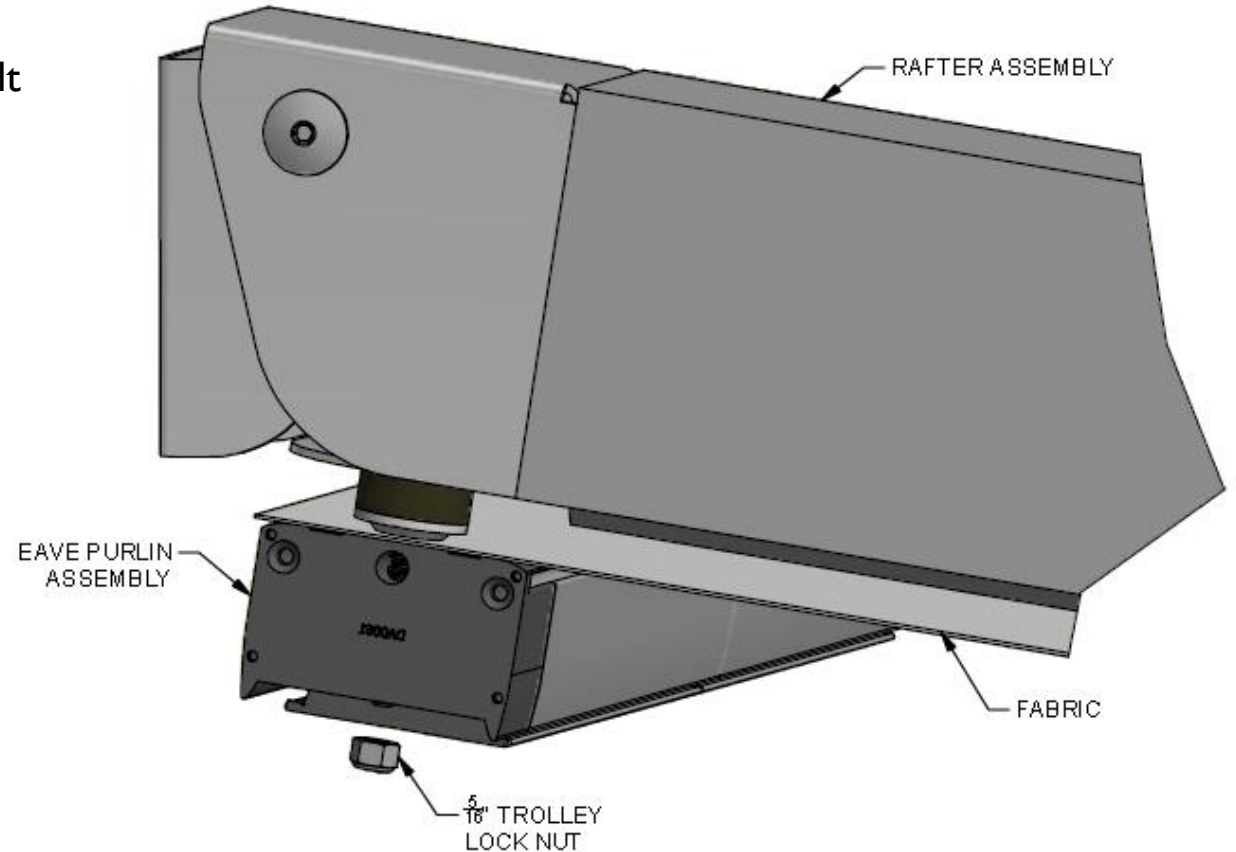
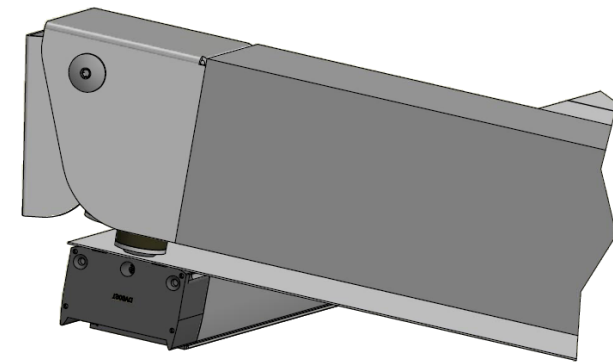




# Eave Purlin

## Install Stationary Eave Purlin

Assemble the remaining eave purlin(s) to the last row of Keder using the methods previously detailed. Connect the eave purlin assembly to the rafter assembly using the provided 5/16" trolley lock nut. Ensure the square head of the trolley bolt is correctly positioned inside the trolley bolt slot in the rafter weldment prior to tightening the nut.



Rear View



Configuration		
GZ	WP	BW
X	X	X

# Assembly Instructions

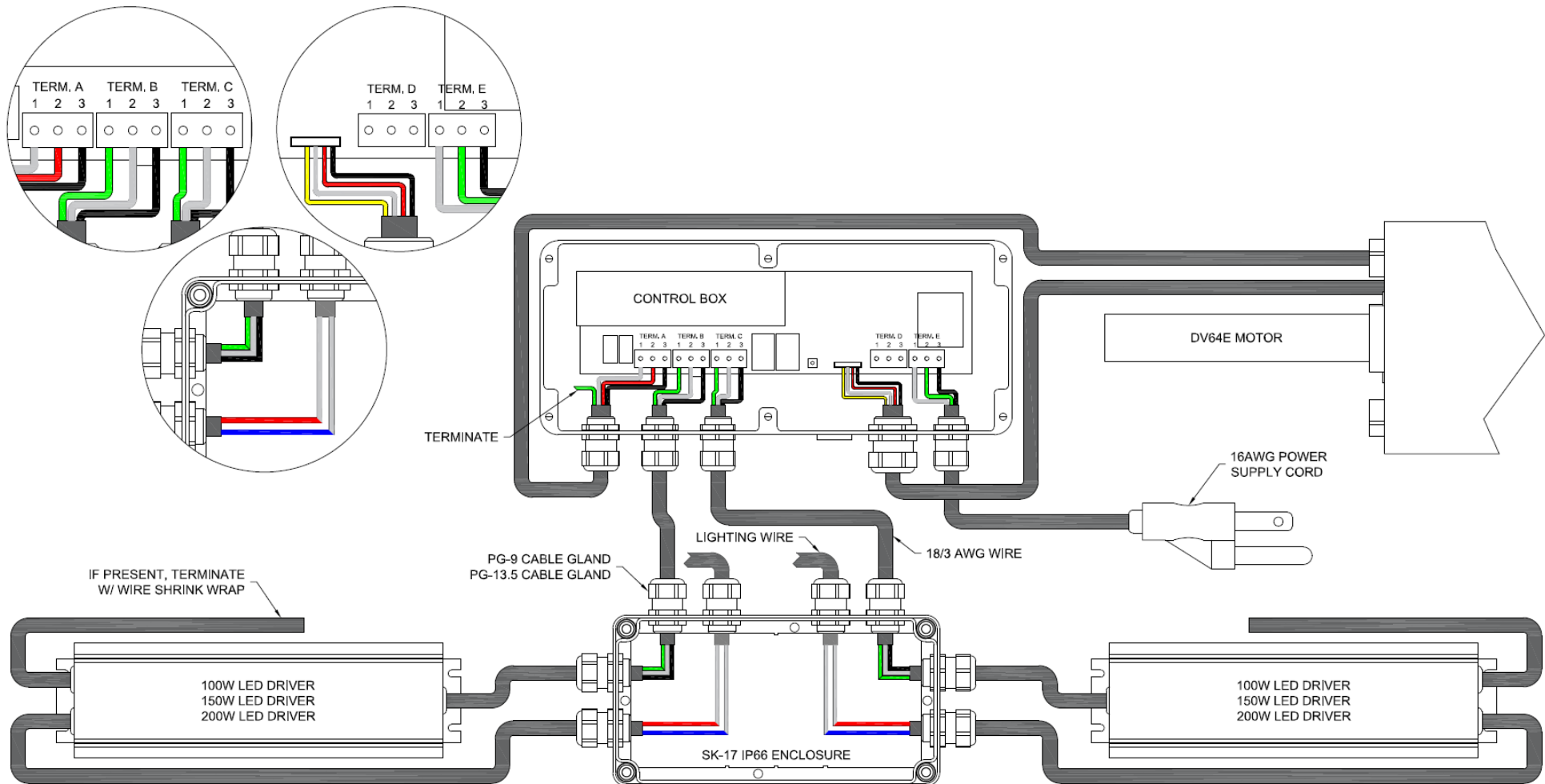
*Motor & Lights*





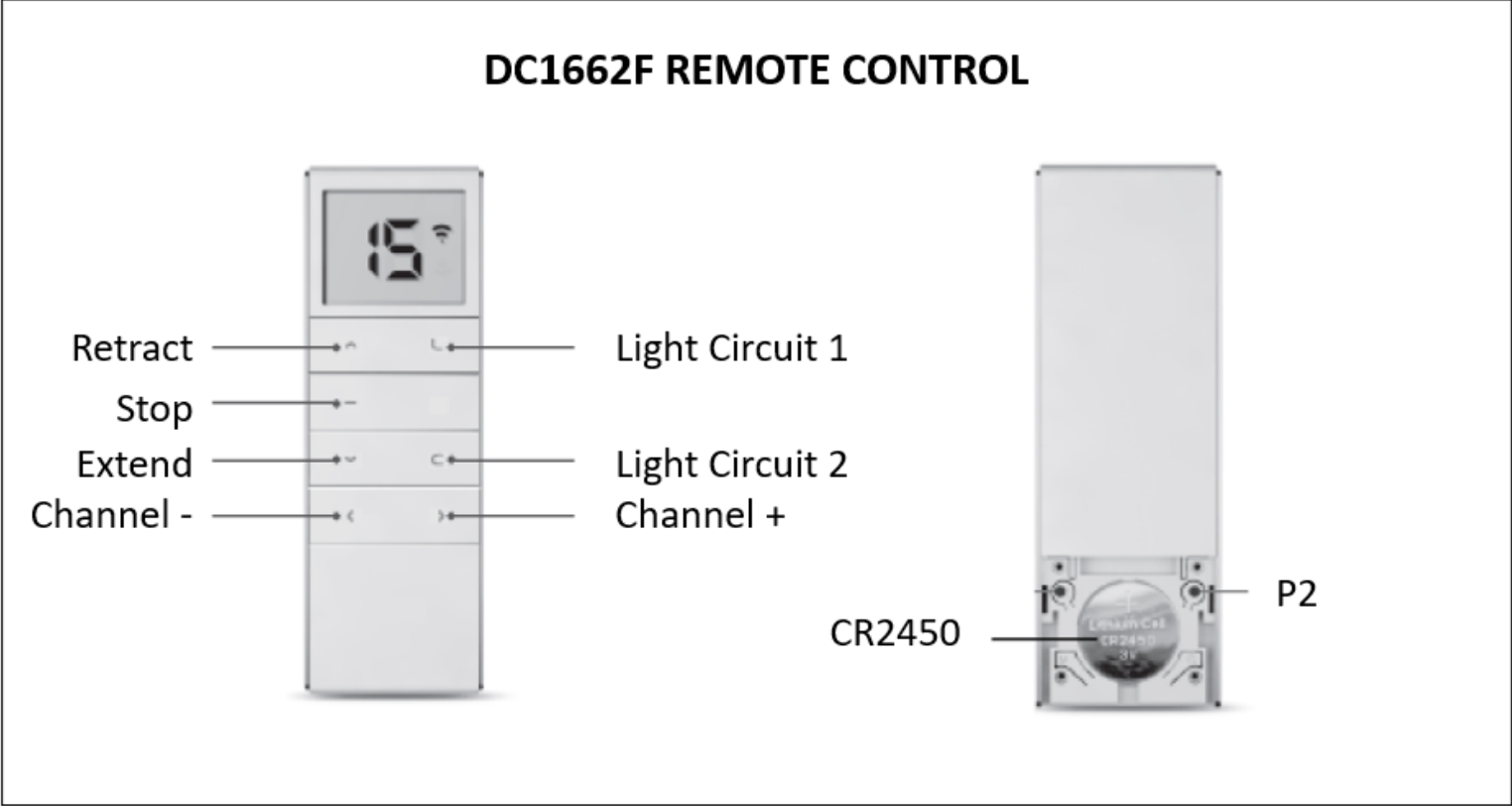
## Wiring

Ensure your pergola is wired as shown below. If applicable, connect the wire(s) coming from the fabric top to the transformer(s) inside the white junction box.



Configuration		
GZ	WP	BW
X	X	X

Pergola Configuration  
Remote



Configuration		
GZ	WP	BW
X	X	X

# Pergola Configuration

## Programming

The following steps detail how to configure the motor limits and lights when present. It is important to ensure that the lead purlin is straight across all bays prior to starting the motor configuration.

1. **Connect to Power.** Once the control box is connected to power, a long beep will be emitted.
2. **Select Channel.** If you are only configuring one control box with this remote, select channel number one on the remote. If more than one control box is being configured, select other corresponding channels. Do not use channel zero for the control box configuration.
3. **Define the Limits.** On the inside of the control box, locate the **SI** button. Press the **SI** button for approximately 10 seconds. An initial beep will be heard. Continue to press **SI** until three short beeps are heard.  
*Note: If you do not have access to the control box, press **P2** on the right-hand side of the back of the remote until four short beeps are heard.*  
***Attention:** If a rise and fall sound is heard rather than four short beeps, this means the motor has a configuration problem and needs to be factory reset.*
4. **Enter Configuration Mode.** Simultaneously press the **up** and **down** arrows on the remote for approximately 5 seconds until the motor gives a signal.
5. **Motor Direction.** Check the direction of the motor by pressing the **up** arrow. If the fabric begins to collect towards the top, the direction of the motor is correct. If the fabric begins to extend, the direction of the motor needs to be reversed. Press the **stop** key for 5 seconds until a rise and fall sound is heard. Check the direction of the motor by using the up and down buttons.



Configuration		
GZ	WP	BW
X	X	X

# Pergola Configuration

## Programming, Continued

- 6. Define Upper Limit.** To define the upper limit, simultaneously press the up and stop button until the fabric begins to collect at the top of the pergola. Once the purlins reach approximately 10cm from the highest position, press the stop button. From this position, make fine adjustments by pressing and releasing the up button until the desired location of the purlins is reached.

*Note: This operation must be performed with caution as over retracting the fabric can cause the internal belts to break.*

- 7. Define Lower Limit.** Once the desired upper limit has been reached, record the upper limit by pressing the **P2** button on the right side of the back of the remote. Continue to press **P2** until the motor begins to extend the fabric. Once the fabric extends to approximately 10cm from its maximum projection, press the stop button. From this position, make fine adjustments by pressing and releasing the down button until the desired location is reached.

**Warning:** Use caution when extending the pergola to its limit position as overextending the pergola during this step can result in rafter belt damage.

- 8. Record Lower Limit.** To record the lower limit, press the **P2** button on the right side of the back of the remote until the motor gives a rise and fall signal. Then, press the stop button until the motor gives a rise and fall signal. Finally, press **P2** until a beep is heard. The motor limits have been saved.

- 9. Verify Limits.** Proceed to verify that the limits were saved by retracting and extending your pergola completely.

**Attention:** If the pergola is extended and retracted several times in succession, the motor will shut off to prevent overheating. If this happens, wait approximately 30 minutes before using the motor.

- 10. Spotlights.** Connect the light wires coming from the top of the pergola's fabric to the transformers inside the supplied junction box. To turn the lights on and off, use the **L** (one circuit) and the **C** (additional circuit) buttons on the remote control.



Configuration		
GZ	WP	BW
X	X	X

# Pergola Configuration

## Factory Reset

Before starting the factory reset procedure, we recommend that your pergola's canvas be opened half-way to prevent over-extending or over-retracting the pergola.

1. **Enter Configuration Mode.** Enter configuration mode by simultaneously pressing the up and down buttons until the control box gives a signal.
2. **Motor Direction.** Check the direction of the motor by pressing the up arrow. If the fabric begins to collect towards the top, the direction of the motor is correct. If the fabric begins to extend, the direction of the motor needs to be reversed. Press the stop key for 5 seconds until a rise and fall sound is heard. Check the direction of the motor by using the up and down buttons.
3. **Clear Upper Limit.** To clear the upper limit, press the up button and the stop button at the same time until the canvas begins to retract. Once the purlins reach approximately 20cm from the highest position, press the stop button. Press **P2** on the right side of the back of the remote until the canvas begins to extend. The upper limit has been cleared.
4. **Clear Lower Limit.** Once **P2** was pressed to clear the upper limit, the canvas begins to extend. Once the fabric extends to approximately 20cm from its maximum projection, press the stop button. To clear the lower limit, press the **P2** button on the right side of the back of the remote until the motor gives a rise and fall signal. Then, press the stop button until the motor gives a rise and fall signal. Finally, press **P2** until a beep is heard. The lower limit has been cleared.
5. **Wait.** Wait a few minutes to allow the control box to erase the limits. To configure the control box, define the limits by following the procedure detailed in step 2.



Configuration		
GZ	WP	BW
X	X	X

# Pergola Configuration

## Additional Remotes

In the case that an additional DCI662F remote is needed to control the same DV64E motor, follow the instructions below to pair the additional remote.

*Note: Remote A is the remote already paired with the control box. Remote B is the remote that is being paired.*

- I. **Pairing:** On the right-hand side of the back of remote A, Press **P2** two times, holding on the second press until a continuous beep is heard. On the right-hand side of the back of remote B, press **P2** one time until a continuous beep is heard. Remote B has been paired successfully.

In the case that an additional DCI662F remote needs to be unpaired to the DV64E motor, follow the instructions below to delete the additional remote.

*Note: Remote A and B are both paired, remote B is being deleted.*

- I. **Deleting:** On the right-hand side of the back of remote A, Press **P2** two times, holding on the second press until a continuous beep is heard. On the right-hand side of the back of remote B, press **P2** one time until a continuous beep is heard. Remote B has been deleted successfully.



Configuration		
GZ	WP	BW
X	X	X

# Assembly Instructions

*Finishing Touches*

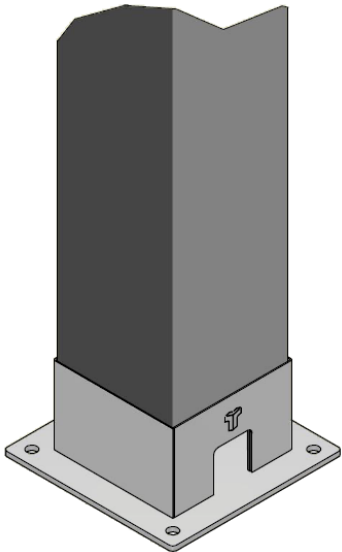
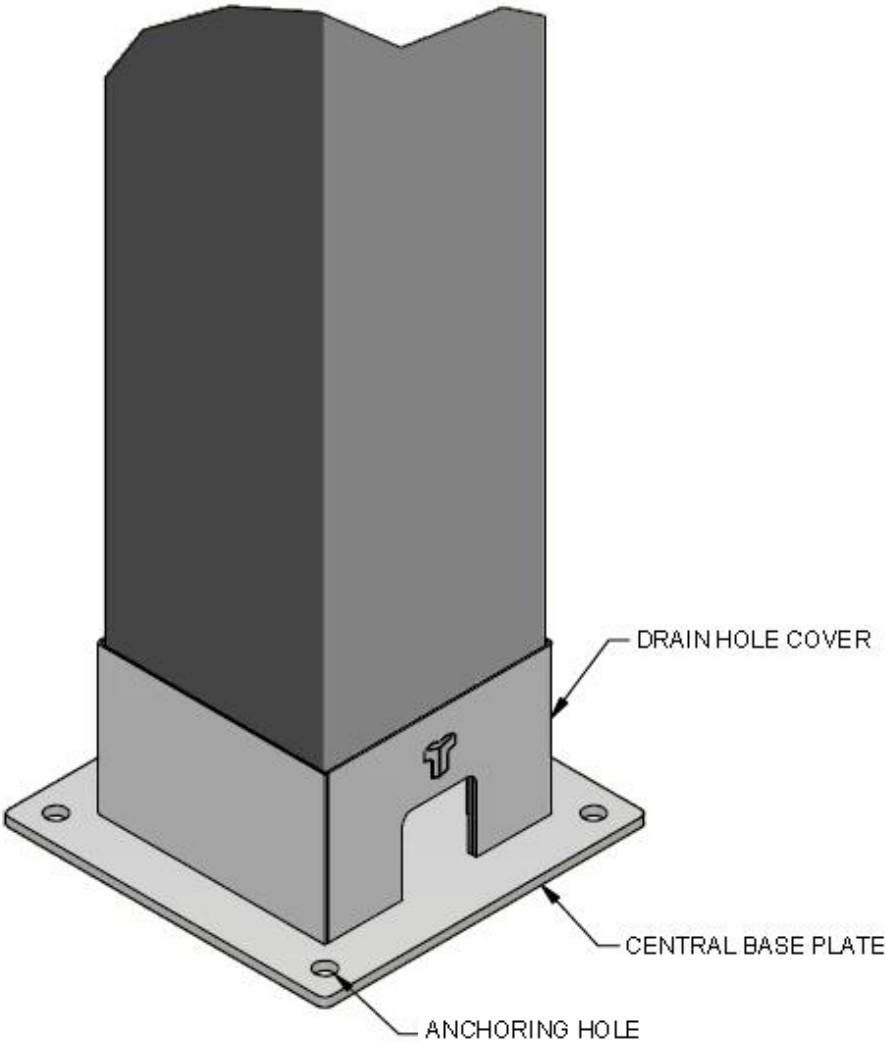


# Front Uprights

## Upright Base

Anchor the base plate to the project surface using the appropriate anchors for your project.

*Note:* Base plate anchors are not supplied.



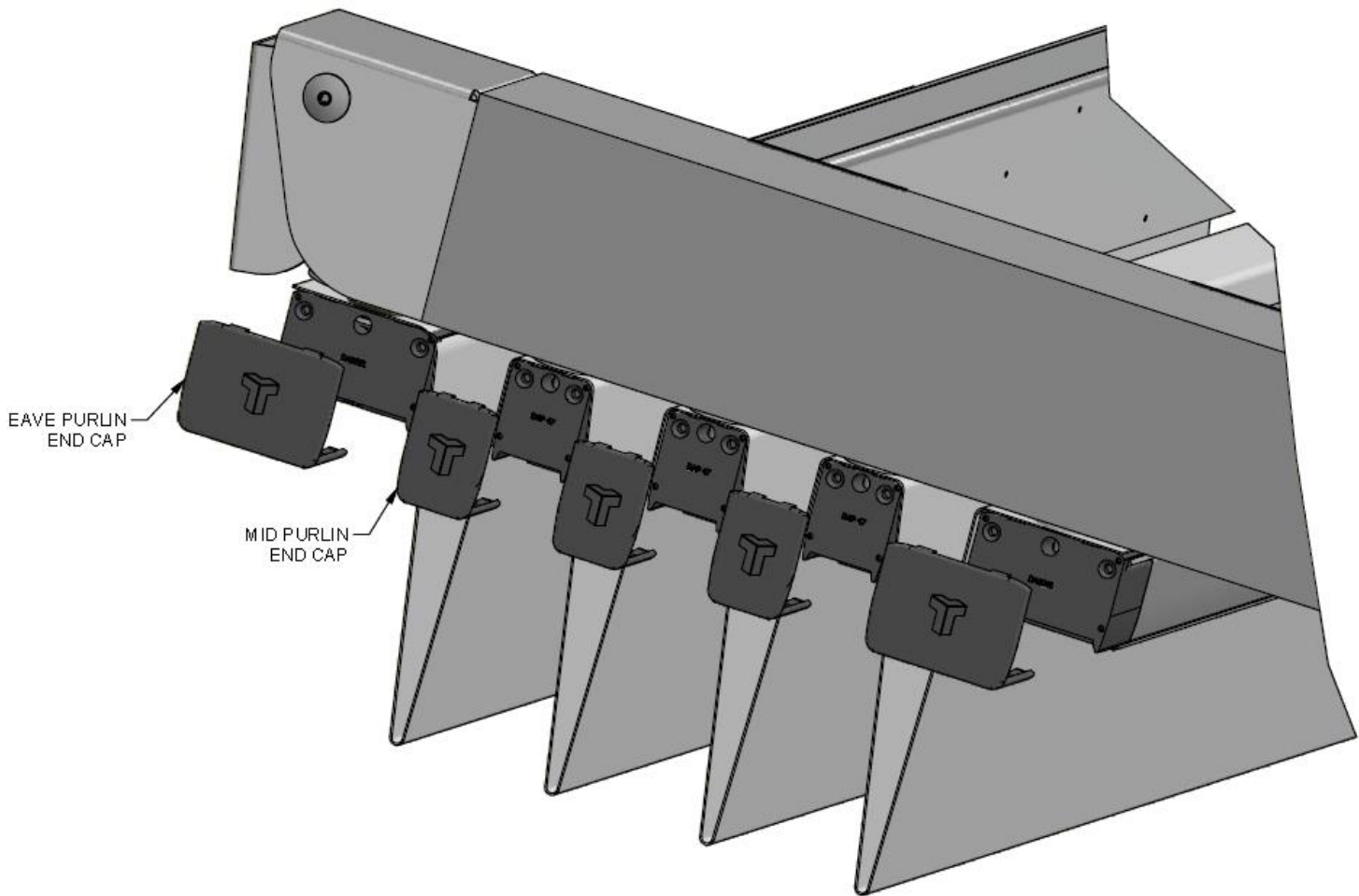
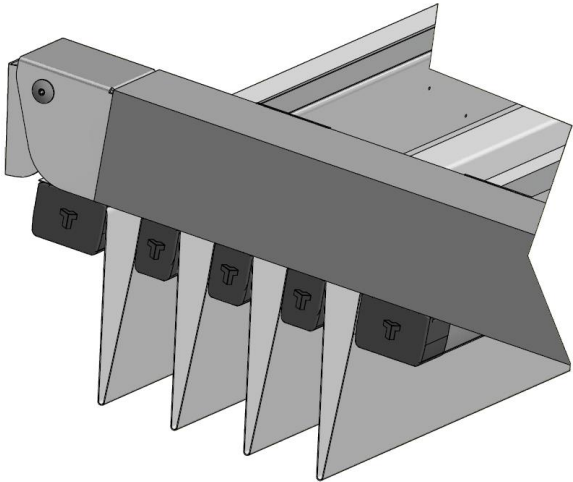
Configuration		
GZ	WP	BW
X	X	



# Purlin Caps

*Install Purlin End and Mid Caps*

Once the light configuration is complete, install the eave purlin and mid purlin end caps. If multiple bays are present, additional caps for the mid purlin and eave purlin unions will be included.



Configuration		
GZ	WP	BW
X	X	X

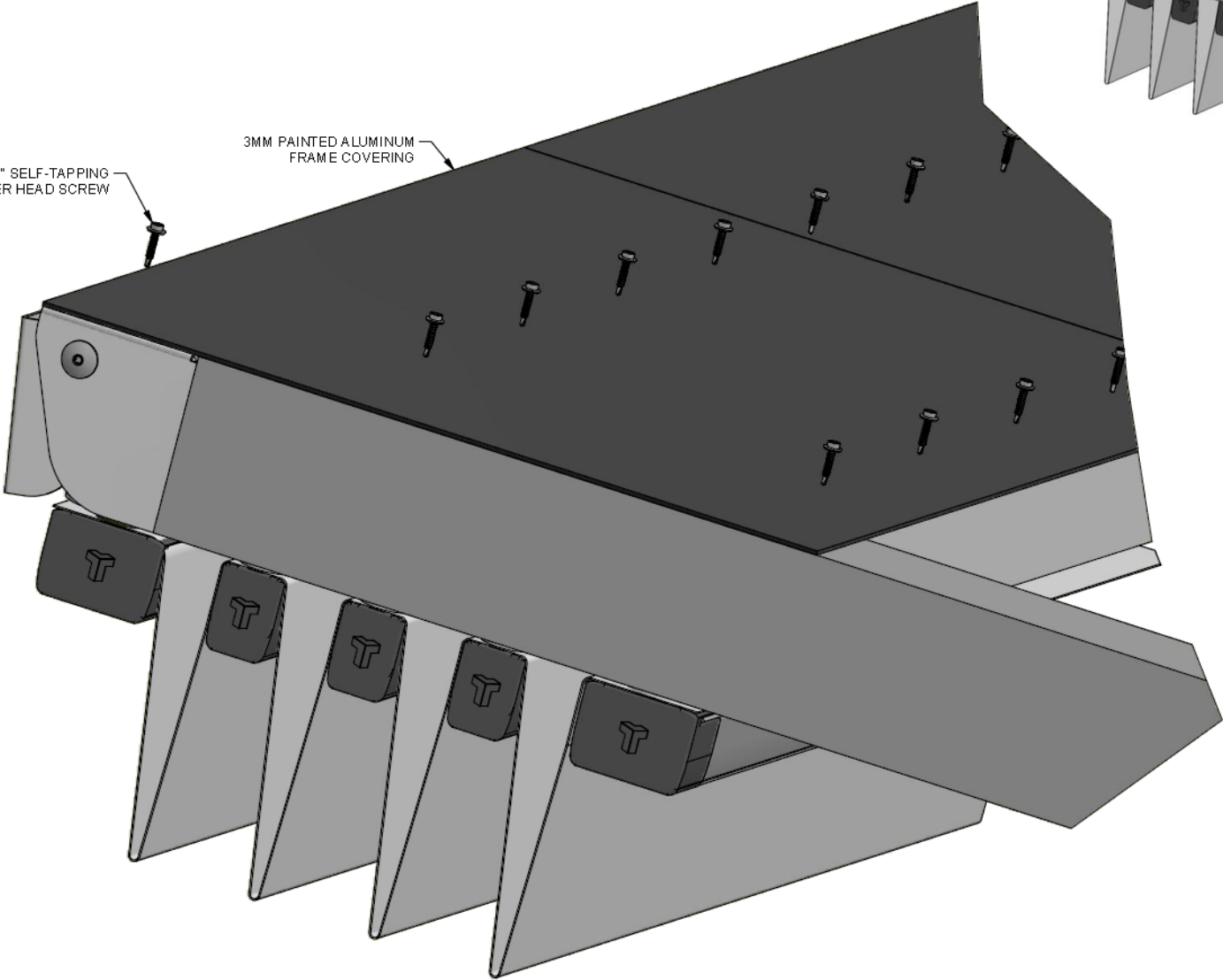
# Frame Covering

## Install the Frame Covering

Secure the frame covering to the pergolas support beams using the provided self-tapping sealing screws. Space the screws approximately 200mm (8") apart.

#10 x 1" SELF-TAPPING  
SEALING WASHER HEAD SCREW

3MM PAINTED ALUMINUM  
FRAME COVERING



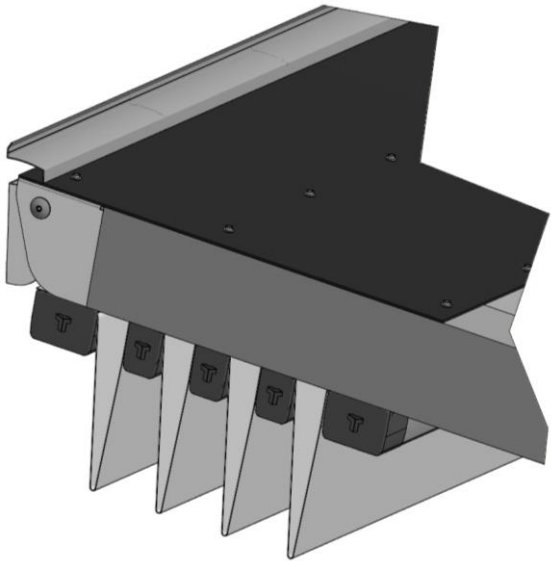
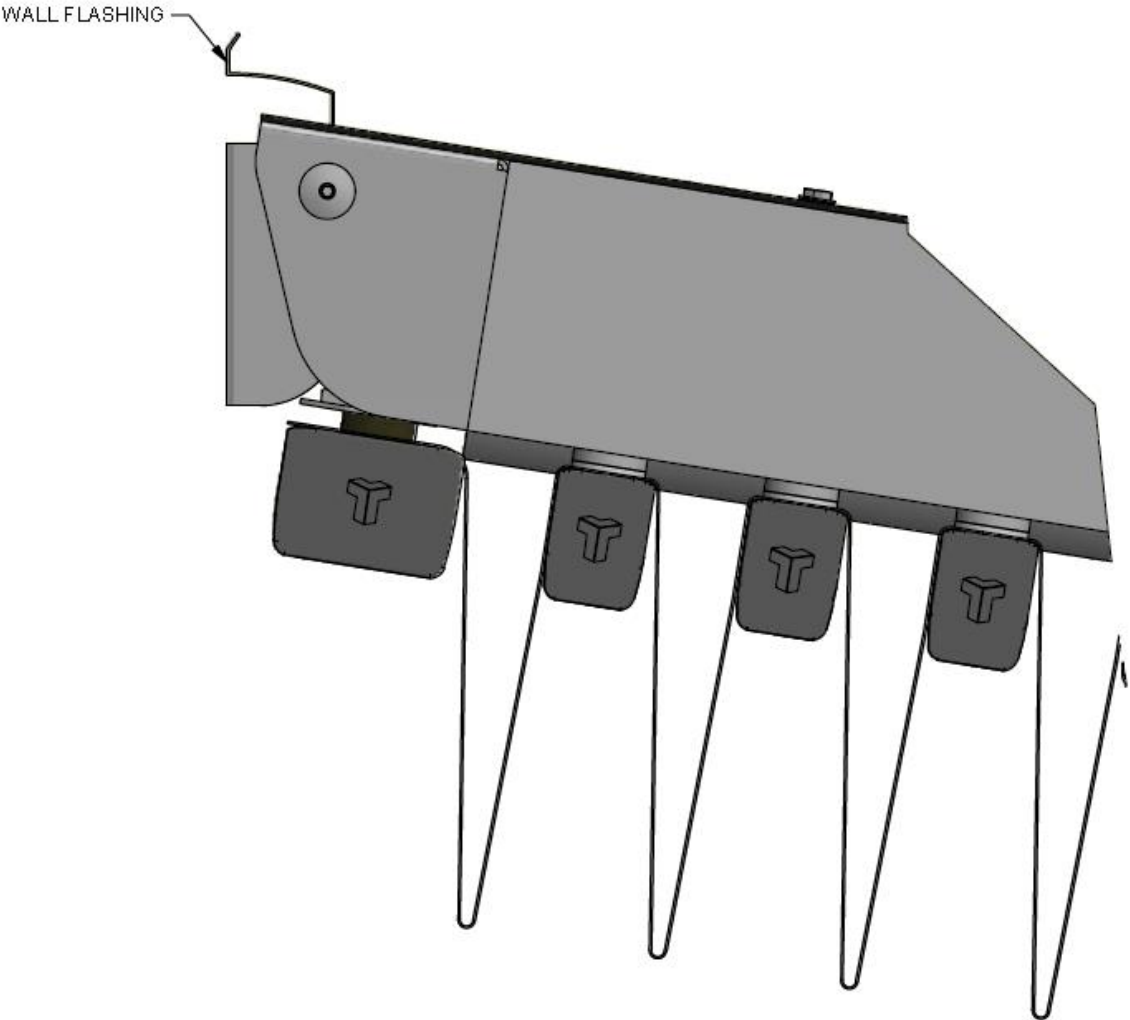
Configuration		
GZ	WP	BW
X	X	X

# Wall Flashing

## Install Wall Flashing

Secure the wall flashing to the wall using appropriate anchors. For between wall configurations, repeat this step for the front side of the pergola.

*Note: Anchors for the wall flashing extrusion not included.*



Configuration		
GZ	WP	BW
	X	X

# Finishing Touches

## Waterproofing

**IP Glue.** Following a successful installation of your pergola, it is necessary to waterproof your pergola's electronics. Using IP glue or silicone caulking, generously apply to the following areas:

1. Purlin Lights to Fabric Wire Connections
2. Motor Control Box Cable Glands
3. Junction Box Cable Glands

**Caulking.** To ensure your pergola performs as expected, it may be necessary to apply caulking to your pergola to prevent water leakage. Generously apply exterior grade caulking to the following areas:

1. Gutter Corners and Joints
2. Gutter to Upright Connections
3. Upright Base Plates
4. Frame Covering Joints
5. Wall Flashings

*Note: In some instances, a custom color exterior grade caulking may be desired. This can be obtained at most local paint shops.*



# Maintenance & Care



## Maintenance & Care

**Gutter Channels and Fabric.** Waste and debris accumulated in the gutter channel and on top of the fabric must be periodically removed to ensure proper drainage. Failure to do so may result in flooding of the gutters or water ponding on top of your pergola fabric. Clean the fabric canvas with water and a neutral soap as needed.

**Rafters.** Over time dust, sand and dirt will collect inside the rafter and could prevent the belt from properly operating. Clean the interior of the rafter by using a light stream of water and a nylon brush. This preventative maintenance may be required more frequently in areas of high salinity.

*Note: Do not lubricate the rafter trolleys.*

**Hardware.** Over time small vibrations caused by wind can loosen the hardware of your pergola. Preventative maintenance should be completed each season to ensure all hardware is properly tightened.

**Electronics.** Electronic components for your pergola should be checked each season to ensure proper watertight connections where necessary.

**Wind.** In the event of a storm where winds are too strong to comfortably enjoy your pergola outside, the fabric should be retracted to prevent damage to the pergola. Each pergola has a unique wind load according to its configuration and location of use. These loads can be confirmed through a site-specific engineering package.

**Snow.** In the instance of any snow fall, the fabric should be retracted and accumulated snow on the frame covering should be removed to prevent any damage to the pergola. The PergoStar family of products are not rated for any snow load.



# FAQ's



## FAQ's

1. **I get no response from the control box when I initially plug it in.** If an initial beep is not heard when initially connected to power, check that the power supply cord inside the control box is properly connected.
2. **I get no response from the motor.** If no response from the motor is achieved when trying to program, check the following connections:
  1. Is the motor power supply (green, white, red and black) properly connected to terminal A inside the control box.
  2. Is the motor logic cables (Yellow, white, red and black) properly connected inside the control box.
3. **When the motor moves, the trolleys and belt are not moving.** It is possible that the motor is not properly connected to the belt. Check the following connection points:
  1. If the motor is moving but the transmission tube does not rotate, check that the small insert inside of the transmission tube and flat tip bolt are both contacting the transmission shaft.
  2. If the transmission tube and shaft are both rotating with the motor, check that the transmission shaft is fully inserted into the rafter's gear box. To do this, remove the white plastic hub that is attached to the rafter that the transmission shaft enters.
4. **I can not get my pergola into configuration mode.** When trying to enter configuration mode, if a rise and fall sound (fabric slightly moves forward and slightly retracts) rather than four short beeps, the pergola must be factory reset. Follow the factory reset instructions detailed in the pergola configuration section.
5. **Some or all of my lights are not working after the pergola has been configured.** If some or all of the spotlights do not turn on after the pergola has been successfully configured, check the following connections:
  1. Is the polarity of the fabric wire to transformer wire inside the junction box correct?
  2. Is the transformer properly connected to terminal B (and C) inside the control box?
  3. Is the polarity of the fabric wire to spot light wire correct and consistent inside the mid purlins ends?
  4. Are the spotlights properly connected to one another inside the mid purlins? Check this by removing the spotlight in question and checking the quick connect inside the purlin.





## FAQ's

### Continued

6. **When configuring the pergola, the lead purlin is not straight.** If it is noticed during the configuration of the motor that the purlins are not straight, check the following:
  1. Check that the tension on all rafter belts are similar. Adjust as necessary using the tension bolt. Reference the *Rafter Belt Tension* page for details.
  2. Adjust the location of the lead trolley using the synchronizing tube. Reference the *Install Transmission Tubes to Rafters* page for details.
7. **During programming, I over-extended my pergola and the belt broke.** If the belt breaks during, contact your Anchor Rep and request a replacement belt. Once received, the belt can be easily replaced by following our Trolley Replacement Installation video found on Anchors YouTube page.
8. **When the fabric extends or retracts, the pergola squeaks.** If the pergola squeaks while the fabric is moving, it is possible that the pergola is out of square. Check the squareness of the pergola and adjust as needed. The squeaking will more than likely be originating from the transmission shaft and white plastic hub located on the top end of the rafter.
9. **My motor stopped while it was in use.** When the motor is repeatedly used and reaches a set temperature, a thermal limit is activated and shuts down the motor to prevent damage. Allow the motor to cool down for approximately 15 minutes.





**Corporate Headquarters**

Anchor Industries

7701 US Hwy 41

Evansville, IN 47725

(812) 867-2421

[Anchorinc.com/Products/Toscana-Pergolas/](http://Anchorinc.com/Products/Toscana-Pergolas/)

