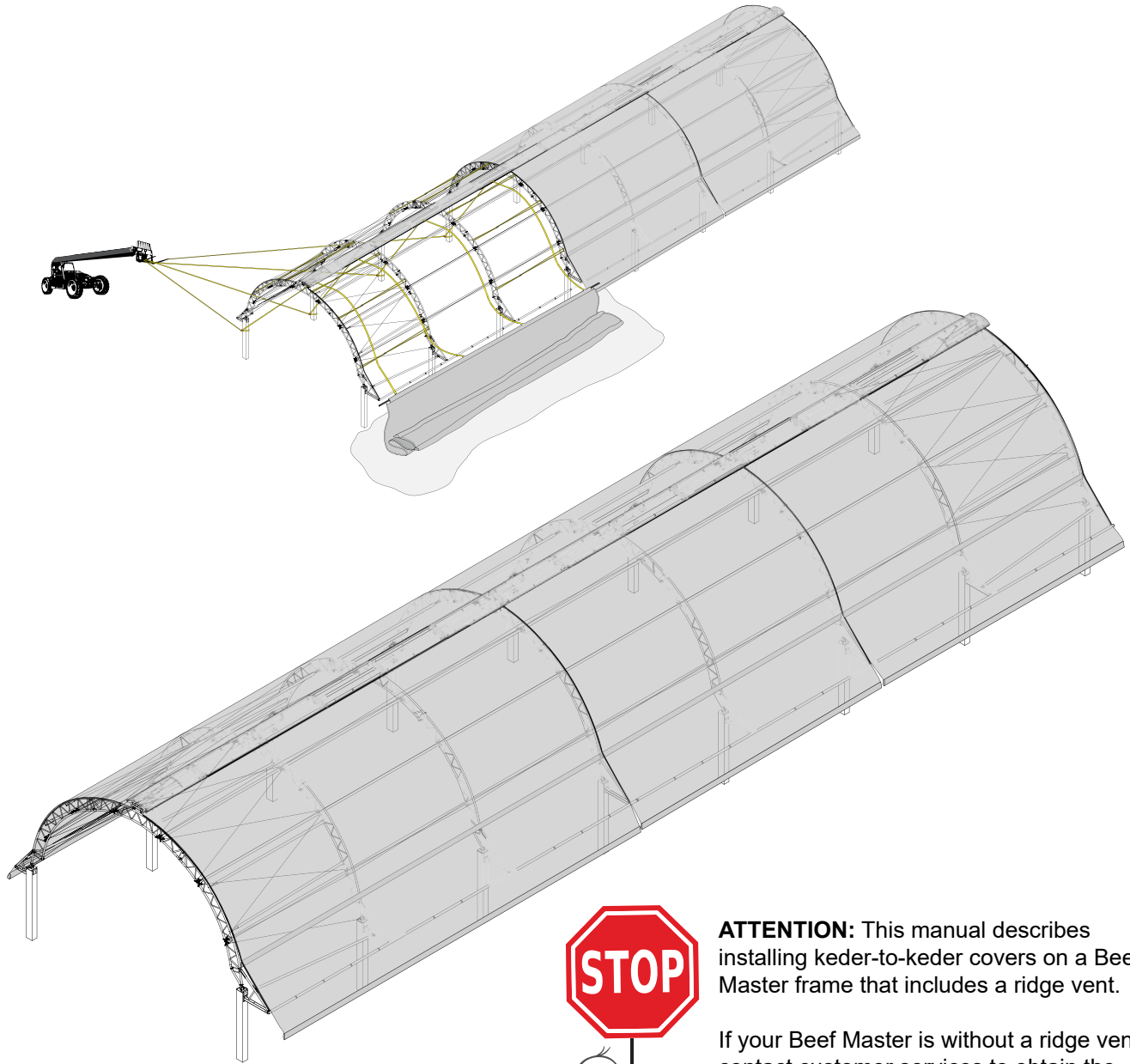




## ClearSpan™ Beef Master Cover Installation — 65' Wide (or smaller) with Ridge Vent



**ATTENTION:** This manual describes installing keder-to-keder covers on a Beef Master frame that includes a ridge vent.

If your Beef Master is without a ridge vent, contact customer services to obtain the correct cover installation manual. Some procedures in this guide do not apply.

**IMPORTANT INFORMATION!** READ THIS ENTIRE DOCUMENT **BEFORE** YOU BEGIN MAIN COVER INSTALLATION.

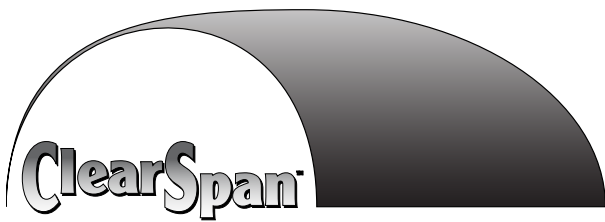
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WARNING: Cancer and Reproductive Toxicity - P65Warnings.ca.gov

**BEEF MASTER COVER INSTALLATION**

Revision date: 08.05.20



## READ THIS DOCUMENT BEFORE YOU BEGIN

The installation of the main covers is another step toward the completion of your building. To ensure that covers are installed safely and properly, read this information.

## SAFETY PRECAUTIONS

- Wear approved eye and head safety gear.
- Wear gloves when handling metal tubes and strapping.
- Do not climb on the shelter or framing during or after construction or during the cover installation.
- Do not attempt to install the covers during windy conditions. A light breeze can easily lift a cover during installation which may cause property and cover damage and personal injury. *Exercise caution at all times during the installation.*
- Covers are heavy. Use proper lifts and adequate assistance during cover preparation and installation.

**⚠ WARNING:** The individuals installing the covers are responsible for furnishing all equipment and tools needed to complete the process. For safety reasons, those who are not familiar with the use of lifts and recognized construction methods and techniques *must seek the help of a qualified contractor.*

## SITE

Before cover installation begins, determine where you will prepare the cover. Use these guidelines to prepare for the cover installation:

- Cover preparation area is typically at the base of the assembled frame along one side.
- Determine along which side of the frame you will prepare cover. Cover installation begins on one side of frame; then cover is pulled over frame to other side.
- Cover preparation area must be accessible, free of overhead obstacles and power lines, level (if possible), and free of ground debris that could damage cover and interfere with cover preparation.

## FRAME PREPARATION

For a typical truss building, frame is fully assembled *before* covers are prepared and installed. Use the following guidelines to verify that frame is ready for cover installation:

- Verify all ratchets and winches (if equipped) are mounted and tested for proper operation.
- Check all mounting bolts to ensure they are tight.
- Inspect the end truss upper chord mounting bolts and cover or tape as needed to protect the bonnet portion (if applicable) of each main end cover.
- Ensure that no loose cable ends can catch or damage covers as they are pulled over frame. Tape cable ends if needed.
- Tape *all upper chord truss splices* using duct tape to prevent cover damage. Inspect frame for sharp edges and cover or smooth these if found.
- Inspect the truss foundation and anchor system (if equipped) to verify that the cover will not catch on these during the installation.
- If an end wall is present, inspect the framing for sharp edges and clamps at the point where it is secured to the end truss. Cover these as needed to protect the main cover bonnet (if applicable).
- After frame assembly, verify keder rails attached to each truss are aligned. Loosen and align as needed for cover installation.
- Verify keder rail is ***installed on truss according to the truss prints***, and that edges have been filed smooth to prevent cover damage.

## REQUIRED EQUIPMENT AND TOOLS

In addition to basic hand tools, the following items are required to properly and safely install a keder cover:

- Scissors, utility knife, or similar tools to notch cover pockets and cut strap and rope (if equipped) to length.
- Lifts adequate to reach height of frame and that extend over frame from the outside.
- Ropes (supplied by customer) or straps for pulling covers onto frame. (The 2" strap sent with the building can be used to pull covers into position.)
- Liquid soap to aid in sliding pipe assemblies into the cover pockets. (May not be needed.)
- Duct tape to tape over the pipe splices and Tek screws.
- Clutched-driver and bit to install self-tapping screws.
- Wire pulling lubricant (required): purchase locally.





# 16' On-Center Truss Spacing

**WARNING:** To prevent injury and property damage, do not install cover on windy or stormy days.

For buildings beginning with:  
**T050BMP**

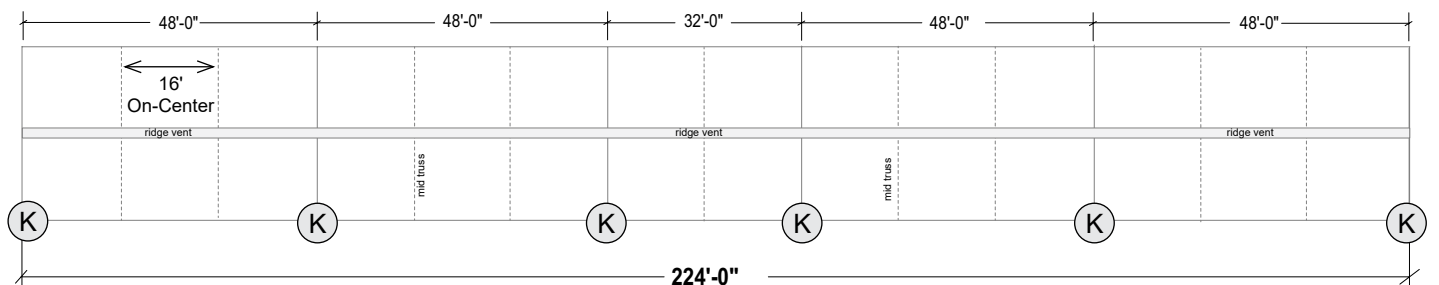
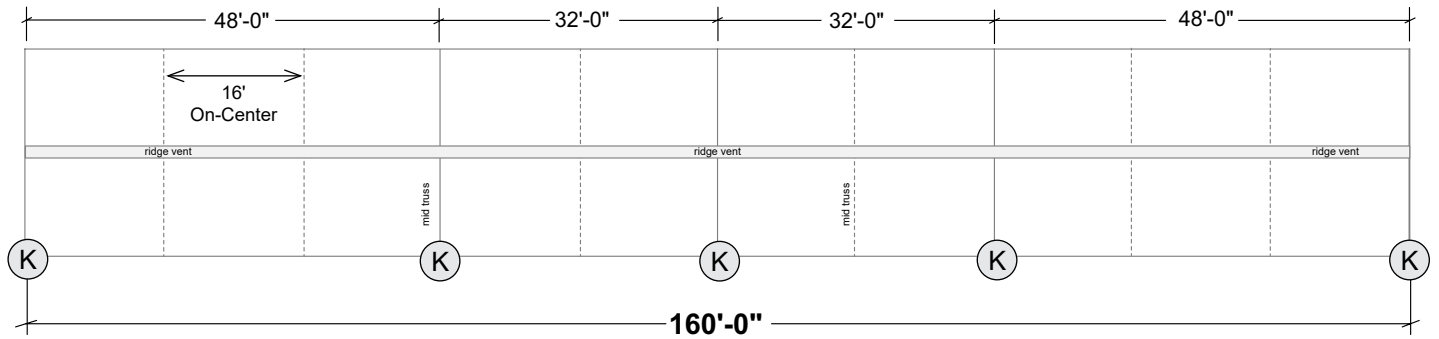
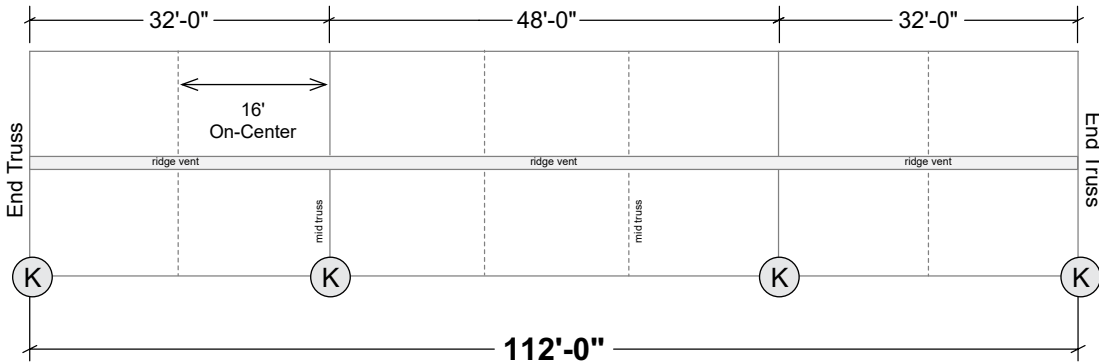
**COVER LAYOUT DIAGRAMS — 16' On-Center Truss Spacing**

Review all diagrams in this guide before you begin. Below are Cover Layout diagrams for **standard** buildings. Structures of custom designs, different lengths, or truss spacings may have different cover layouts. **Unless instructed to do so, do not use these diagrams if you are covering a custom building.**

**ATTENTION:** These cover layout diagrams are specific to standard truss line of Beef Master buildings that include a ridge vent. *Do not use them for any other buildings unless instructed to do so.* Dimension below each diagram identifies length of building. Dimensions above each diagram identify cover panel length.

*Dashed lines show 16' on-center truss locations.*

**ATTENTION:** After or during frame assembly, attach keder rail to trusses identified by the letter K.

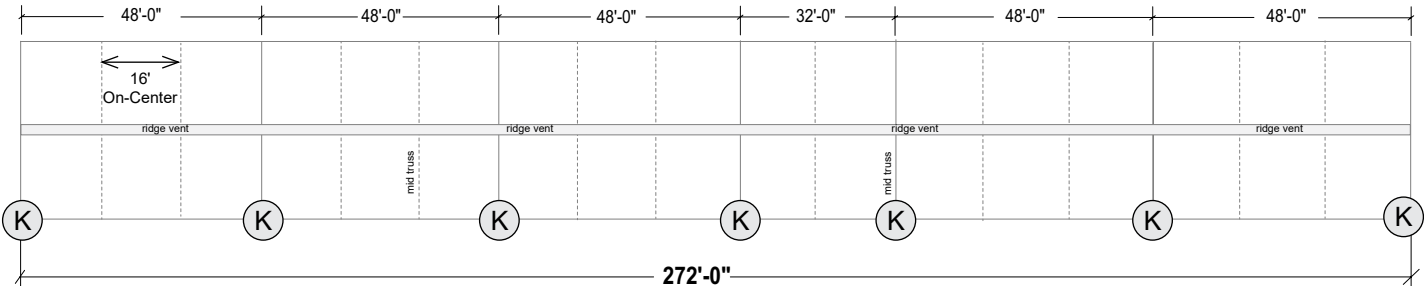


STANDARD COVER LAYOUT DIAGRAMS — continued (16' ON-CENTER TRUSS SPACING)

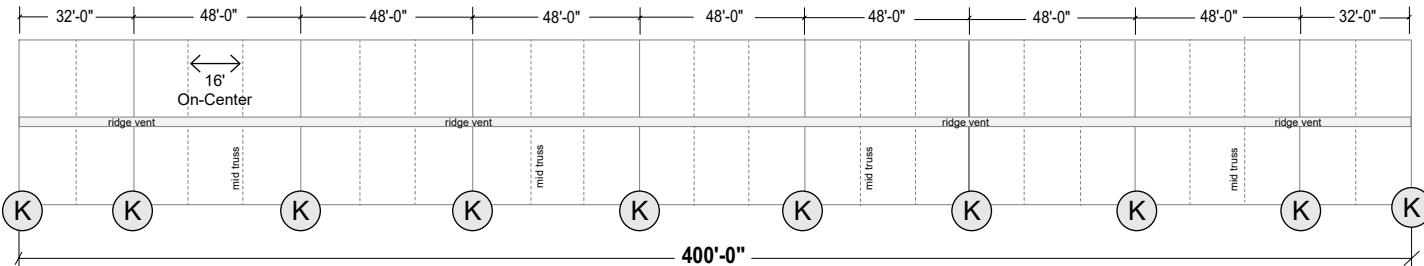
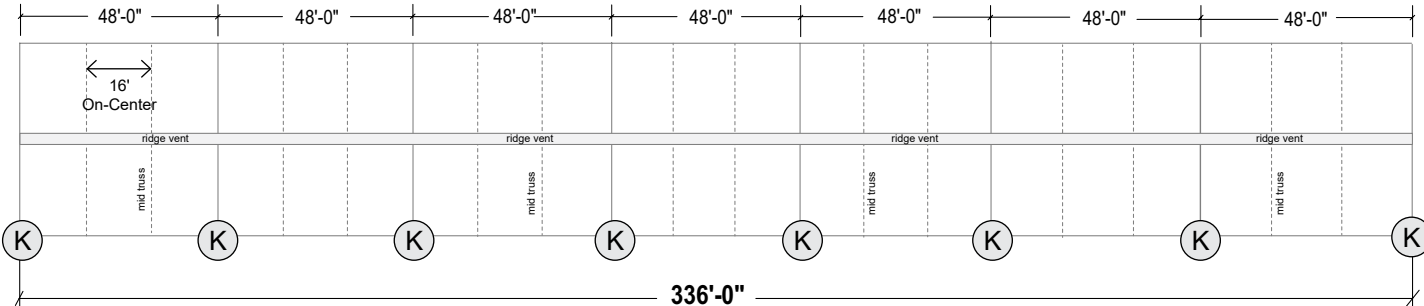
**ATTENTION:** These cover layout diagrams are specific to standard truss line of buildings. Unless instructed to do so, *do not use them for any other buildings.*

Dimension below each diagram identifies length of building. Dimensions above each diagram identify cover panel length. **Dashed lines show 16' on-center truss locations.** Attach keder rail to each truss marked with the letter K.

**IMPORTANT!** Before pulling any keder cover, ensure all keder rails are aligned. Lubricate all keder channels using wire pulling lubricate (not included — purchase locally) or a soap and water mixture. Keder rope must slide easily in keder channel. **Do not attempt to pull a keder cover into a channel without first lubricating that channel!** Transition between keder rails attached to a truss must be smooth and without obstructions. Inspect these areas and adjust rails as needed to prevent damage to keder covers.



**ATTENTION:** After or during frame assembly, attach keder rail to trusses identified by the letter K.



# 20' On-Center Truss Spacing

**WARNING:** To prevent injury and property damage, do not install cover on windy or stormy days.

For buildings beginning with:

## BM2HD

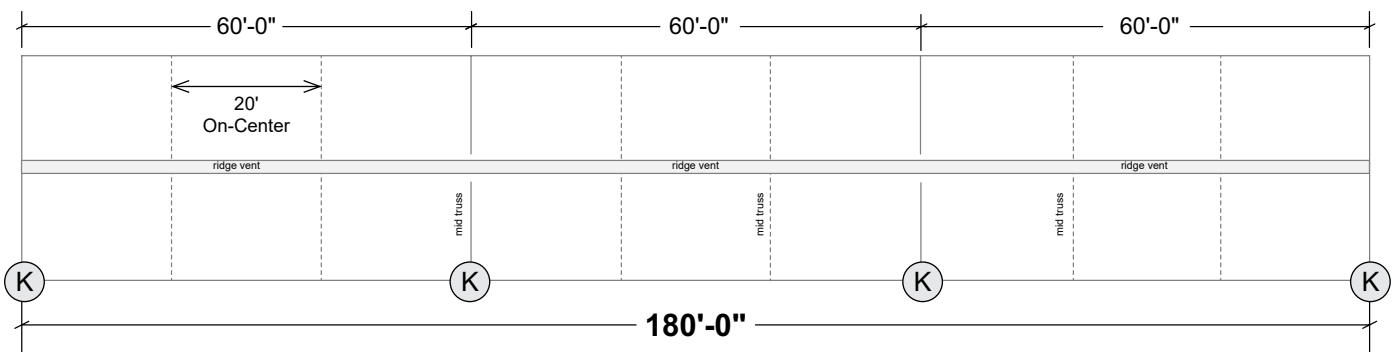
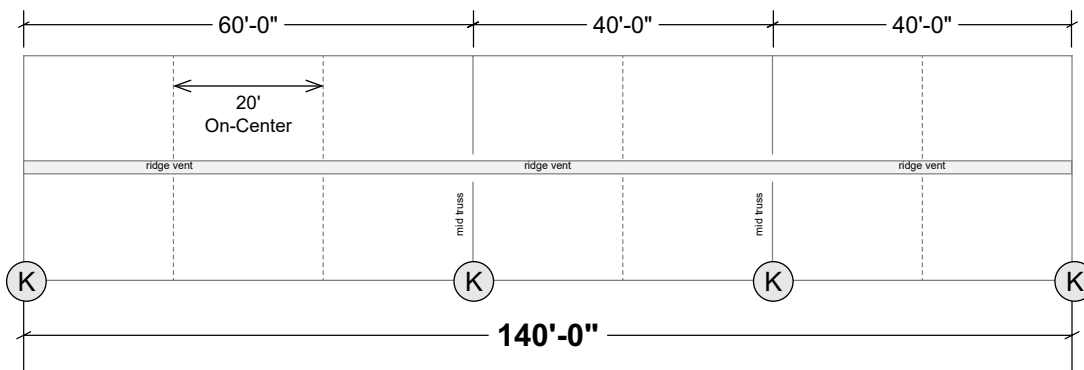
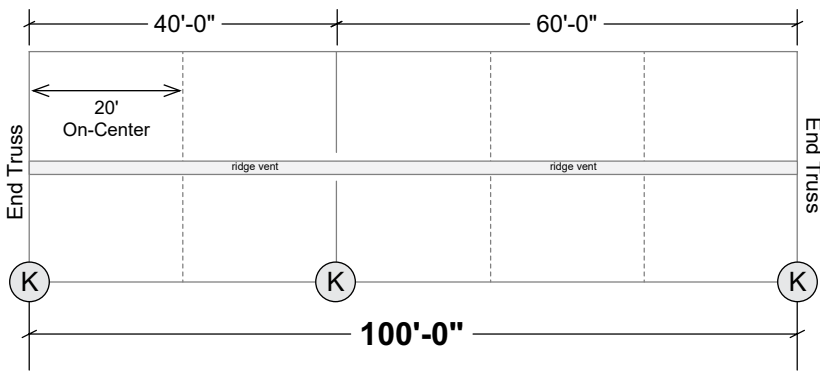
### COVER LAYOUT DIAGRAMS — 20' On-Center Truss Spacing

Review all diagrams in this guide before you begin. Below are Cover Layout diagrams for **standard** buildings. Structures of custom designs, different lengths, or truss spacings may have different cover layouts. **Unless instructed to do so, do not use these diagrams if you are covering a custom building.**

**ATTENTION:** These cover layout diagrams are specific to standard truss line of Beef Master buildings that include a ridge vent. *Do not use them for any other buildings unless instructed to do so.* Dimension below each diagram identifies length of building. Dimensions above each diagram identify cover panel length.

*Dashed lines show 20' on-center truss locations.*

**ATTENTION:** After or during frame assembly, attach keder rail to trusses identified by the letter K.

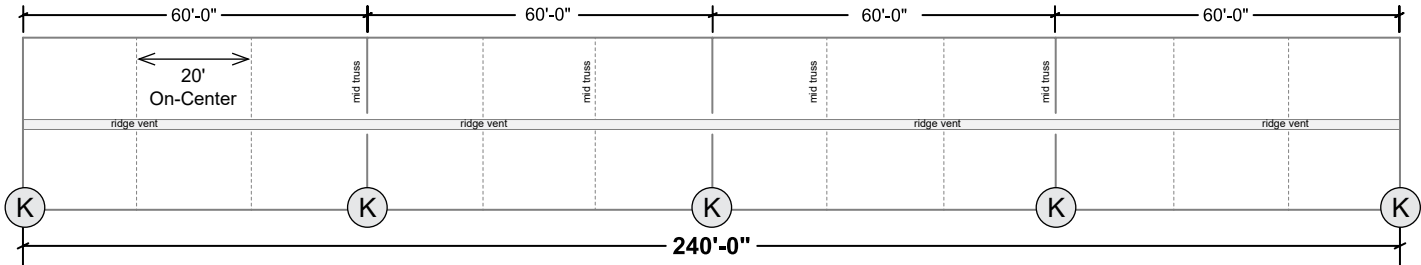
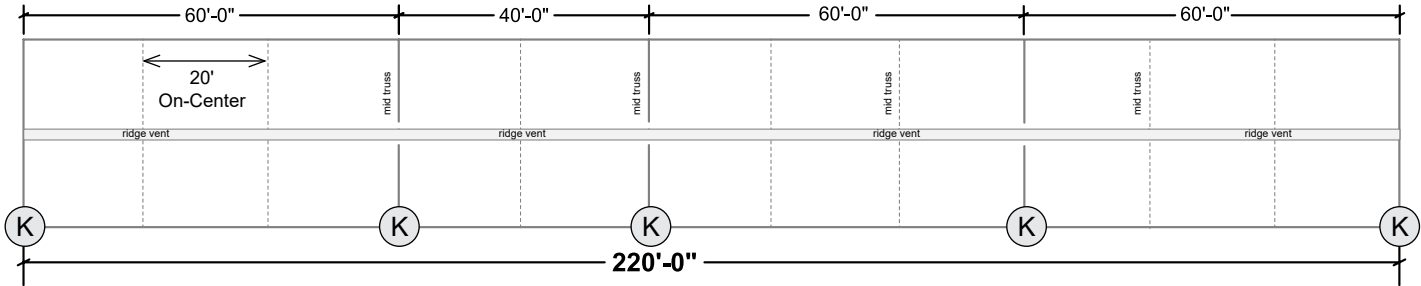


STANDARD COVER LAYOUT DIAGRAMS—continued (20' ON-CENTER TRUSS SPACING)

**ATTENTION:** These cover layout diagrams are specific to standard truss line of buildings. Unless instructed to do so, do not use them for any other buildings.

Dimension below each diagram identifies length of building. Dimensions above each diagram identify cover panel length. **Dashed lines show 20' on-center truss locations.** Attach keder rail to each truss marked with the letter K.

**IMPORTANT!** Before pulling any keder cover, ensure all keder rails are aligned. Lubricate all keder channels using wire pulling lubricate (not included — purchase locally) or a soap and water mixture. Keder rope must slide easily in keder channel. **Do not attempt to pull a keder cover into a channel without first lubricating that channel!** Transition between keder rails attached to a truss must be smooth and without obstructions. Inspect these areas and adjust rails as needed to prevent damage to keder covers.



**ATTENTION:** After or during frame assembly, attach keder rail to trusses identified by the letter K.



## CLEARSPAN™ TRUSS ARCH BUILDINGS

### COVER PANEL LOCATION INFORMATION FOR BEEF MASTERS WITH RIDGE VENT

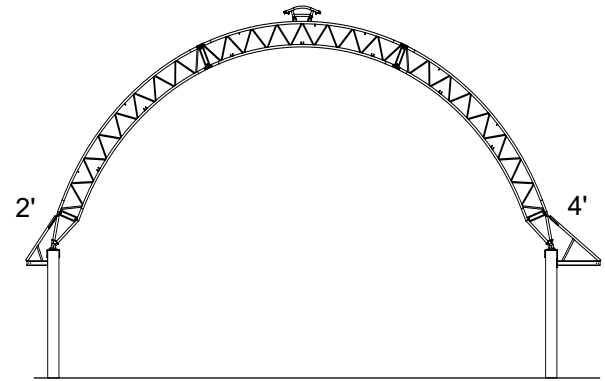
Beef Master skus beginning with **BM2HD** — 2' awning opposite a 4' awning:

Attach cover panels for Beef Master buildings with a ridge vent to the ridge vent frame. For the 100' length shown below:

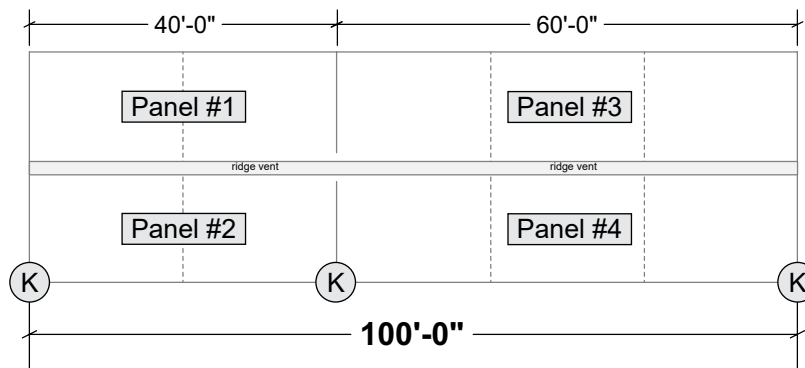
- Panels #1 & #2 are 40' long;
- Panels #3 & #4 are 60' long.

Standard Beef Master of this design also includes two (2) bonnet panels — one for each end — and a ridge vent panel to cover ridge vent frame. **See cover and curtain diagrams at the back of this guide.**

**ATTENTION:** Panels 1 & 2 are identical; panels 3 & 4 are identical. These can be installed on either side despite awning dimensions. **Top view of frame** is shown below.



End View showing 2' and 4' awnings: **BM2HD** buildings.



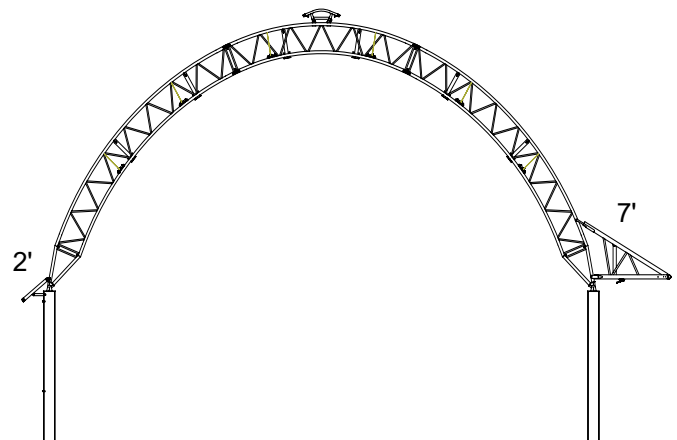
Beef Master skus beginning with **T050BMP** — 2' awning opposite a 7' awning:

Attach cover panels for Beef Master buildings with a ridge vent to ridge vent frame. For example (112' L) shown below:

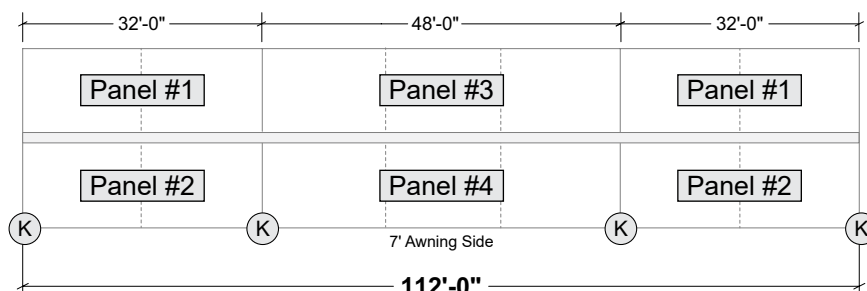
- Panel #1 is 32' long for 2' awning side (each end);
- Panel #2 is 32' long for 7' awning side (each end);
- Panel #3 is 48' long for 2' awning side;
- Panel #4 is 48' long for 7' awning side.

Standard Beef Master of this design also includes two (2) bonnet panels — one for each end — and a ridge vent panel to cover ridge vent frame. **See cover and curtain diagrams at the back of this guide.**

**ATTENTION:** All cover panels for this Beef Master frame differ in design. **Top view of frame** is shown below.

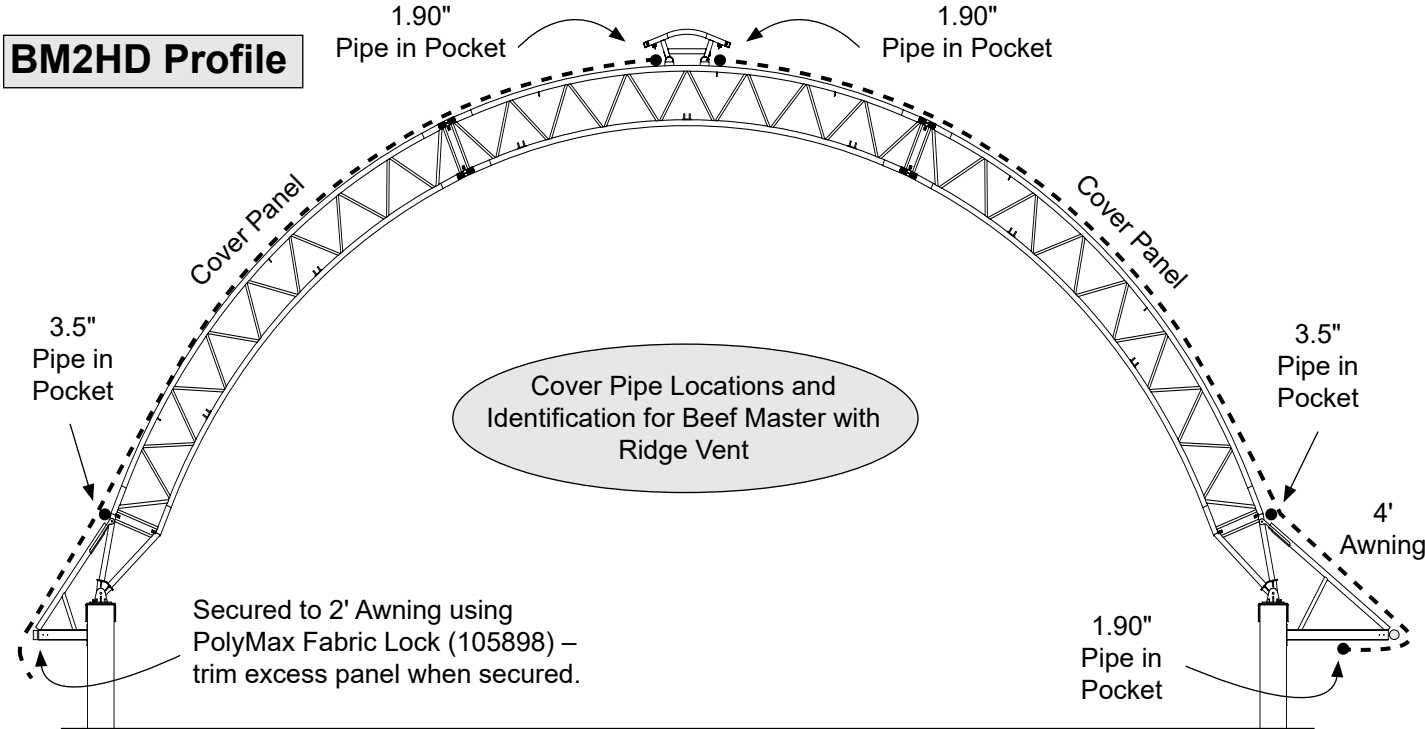


End View showing 2' and 7' awnings: T050BM buildings.



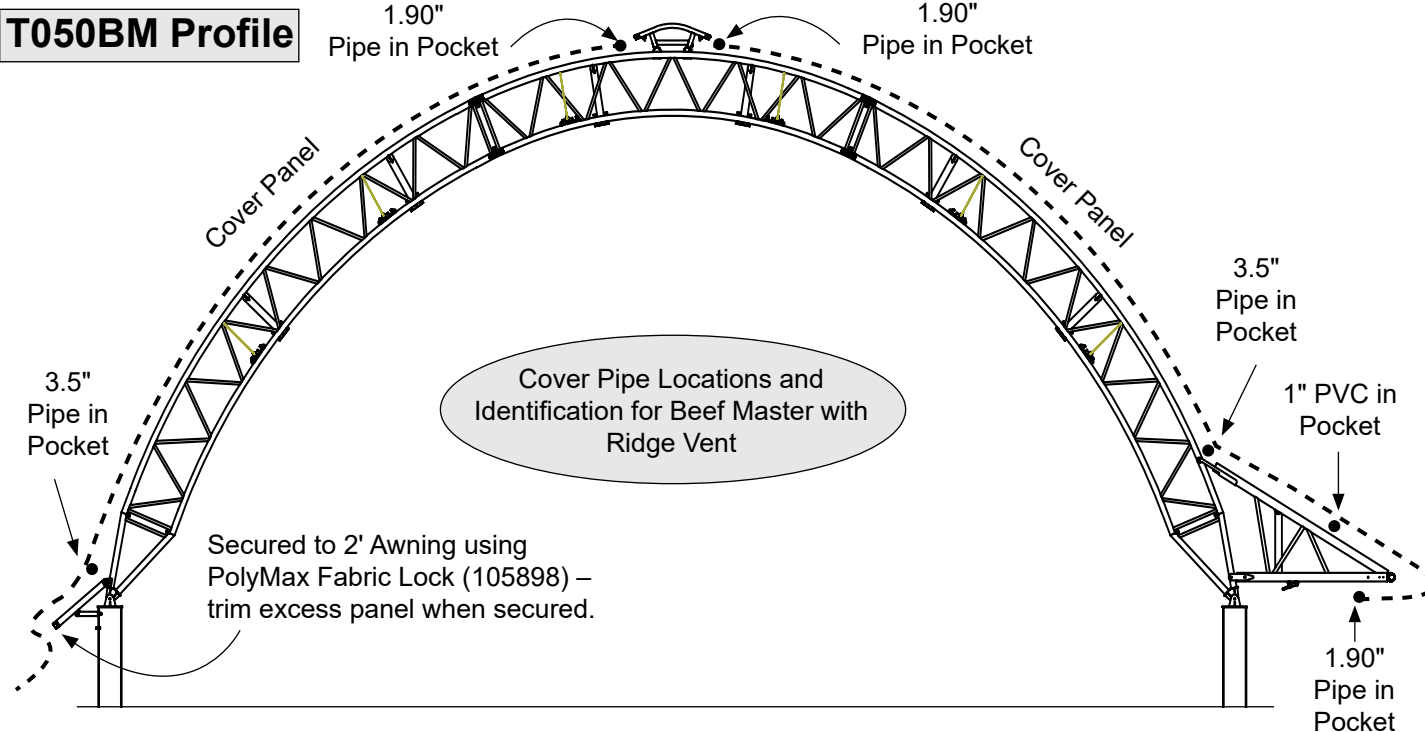
TYPICAL COVER DESIGN: PIPE LOCATIONS AND IDENTIFICATION (BEEF MASTER SYSTEM – 4' AWNING)

Beef Master building covers include different pockets to hold cover pipes and sometimes PVC conduit. Diagrams below show typical pocket locations for standard Beef Master designs. Use diagrams to help during main cover preparation steps presented later. Buildings designed specifically for a customer may include a special cover design that is not represented. Always review all documents included with building for details.



TYPICAL COVER DESIGN: PIPE LOCATIONS AND IDENTIFICATION (HD BEEF MASTER SYSTEM – 7' AWNING)

Diagrams below show a 50' wide Beef Master truss profile with a 7' awning.



# CLEARSPAN™ TRUSS ARCH BUILDINGS

## GENERAL INSTALLATION INSTRUCTIONS

### RIDGE VENT FRAME INSTALLATION

Install ridge vent frame and cover panel *before installing* any main cover. (Main cover attaches to ridge vent frame.) See the frame installation details to ensure frame is installed properly. Some sections are assembled after end panel is installed. Additionally, install a small section of keder channel before installing ridge vent cover panel. See details later in this guide (page 13) and the Beef Master Frame assembly guide.

### END FRAME AND END PANEL INSTALLATION

The installation of end frame and end panel (if equipped) must occur before main cover installation. Consult main building drawing packet and all additional documentation for details.

Do not attach any keder rails to any end truss without first installing end frame and panels (if equipped). Contact your construction manager for clarification and review all installation documentation included with the building.

### COVER TERMINATION AND COMPONENT INSTALLATION

In most instances, it is best to install all cover termination components *before installing cover or covers*. For standard Beef Master truss buildings, cover is terminated at the large awning using straps and ratchets. A PolyMax fabric lock system is included to secure cover to frame tube of the 2' awning opposite large awning.

**NOTE:** Consult the main building technical documentation for additional details. Custom buildings may require additional termination methods.

### KEDER-TO-KEDER COVER INSTALLATION — SINGLE PANEL EXAMPLE OVERVIEW

General Steps:

1. Install ridge vent as detailed on drawings and in Frame Assembly Guide.
2. Install end frame and end panel (if equipped) as detailed in End Frame and End Panel Installation Guides.
3. Attach keder channel to selected trusses as determined by cover layout diagrams and cover design. See content in this guide (pages 4 – 6).
4. Determine where to stage first panel. (Install end main cover panels last. Install covers between the two end main cover panels first.) *If there are only two (2) covers, begin with either.*
5. Identify the two trusses the first cover attaches to and tension truss chords toward each other.
6. Check keder rail alignment and lubricate keder rail channels using wire-pulling lubricate (customer-supplied), or a soap and water mixture.
7. Stage first cover panel for installation.
8. Prepare cover panel for installation.
9. Insert pipe in cover panel pocket.
10. Cut panel pocket to access pipe and to install strap to pull cover onto frame.
11. Tie 2" strap to pipe in panel pocket.
12. Insert keder ropes into keder rail and pull panel onto frame.
13. Secure cover panel at top and stretch to bottom.
14. Terminate cover at awning as instructed.
15. Repeat to install cover panel on opposite side of frame.
16. Plumb upper and lower truss chords using sway cables. (Install as needed after installing each cover.)
17. Install angled braces for end trusses if present.

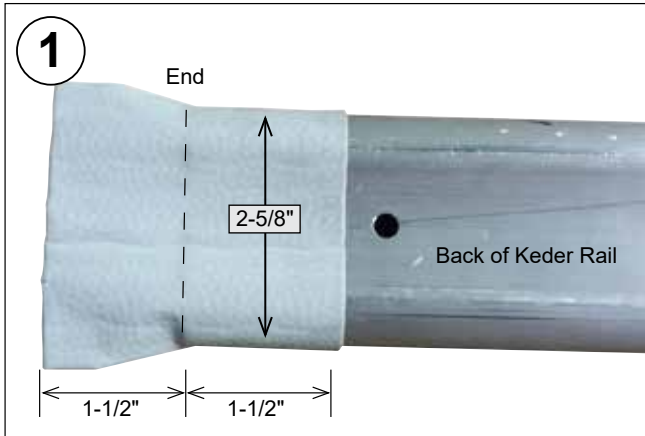
**ATTENTION:** For additional installation details for this cover style, see details in this guide.

**KEDER RAIL PREPARATION AND KEDER RAIL SPLICE CONNECTION DETAILS**

**ATTENTION:** Apply tape to keder rails as described below. Do not install any keder rail without first installing the tape. Prepare all keder rail seams/splices using both types of tape as shown.

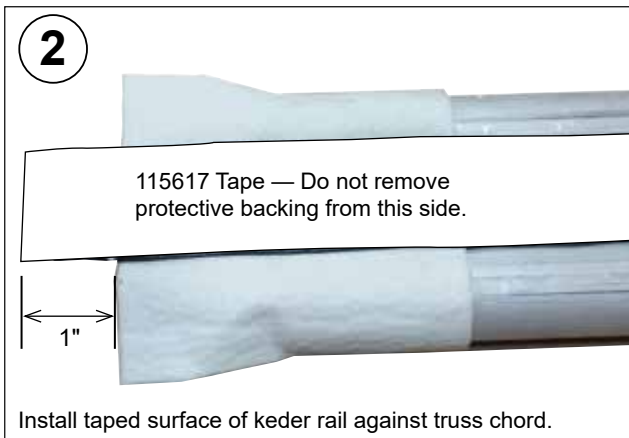
During keder rail installation, complete these steps to prepare **rail ends that butt up to each other at each keder rail splice.**

1. Take the 116125L00263 white tape and remove the protective backing. Center the tape on the keder rail end and apply to 1-1/2" of the keder rail. Tape will extend past end 1-1/2" (Photo 1).



**ATTENTION: USE ONE (1) PIECE OF 116125L00263 TAPE FOR EACH KEDER RAIL SPLICE.**

2. Apply butyl tape (115617) to the back of the keder rail along the center *throughout its length*. Note exceptions in diagram. Allow it to extend 1" past the 116125L00263 tape (Step 1).



**NOTE: Do not remove protective backing from the remaining side of the 1" butyl tape.**

**PARTS NEEDED:**

- Aluminum Keder Rail
- 115617 1/8" x 1" x 30' Butyl Tape
- 116125L00263 35-MIL White Tape

3. If the next keder rail will have another keder rail splice at its opposite end, repeat Steps 1-2; otherwise, repeat Step 2 only. In either case, start the 1" butyl tape approximately 1-1/2" from the starting end of the next keder rail. See diagram at the bottom of the page.

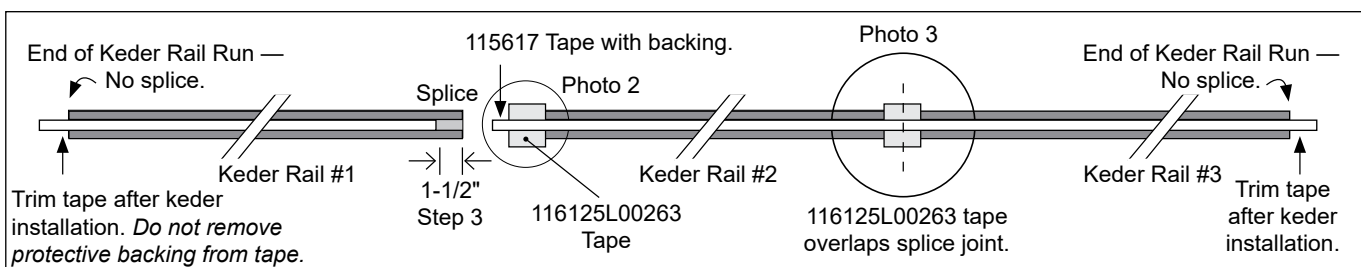


4. Align and butt keder rails together. Wrap 116125L00263 tape around bottom contour of both keder rails at splice. Trim edge if needed to prevent contact with cover during installation.



5. Fasten keder rails to truss chord according to the following pages.

**ATTENTION: Do not remove backing from butyl tape. It remains intact throughout the keder rail installation.**



# CLEARSPAN™ TRUSS ARCH BUILDINGS

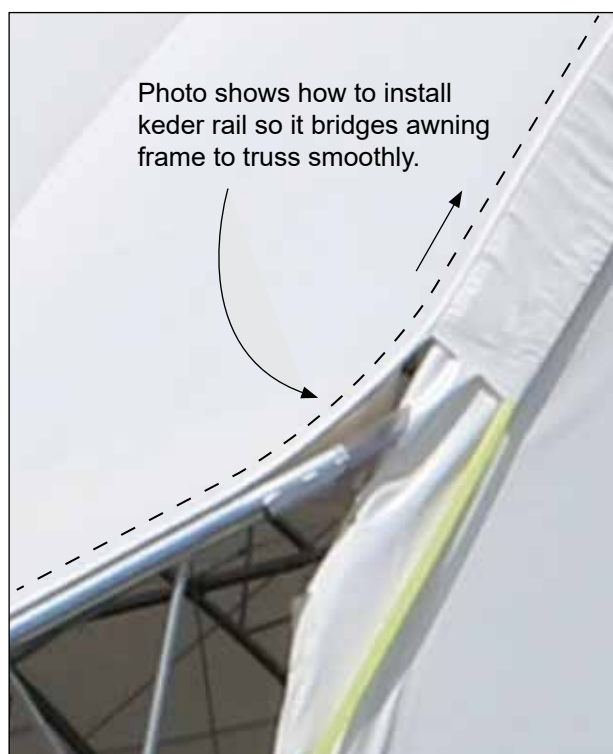
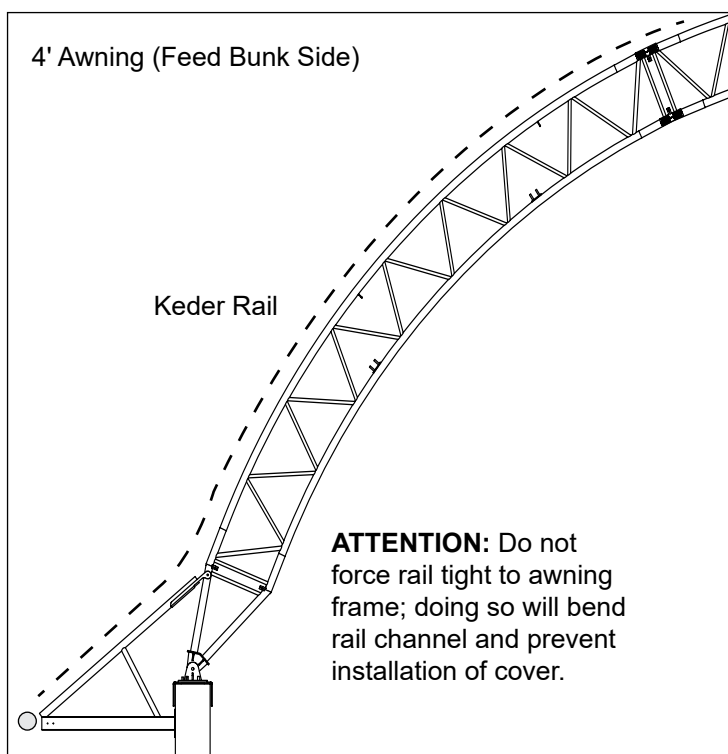
## KEDER RAIL INSTALLATION

Attach keder rail to top of selected trusses. Review cover layout drawings (pages 4-6) to determine keder rail position. **Install a screw in each predrilled hole in keder rail.**

**ATTENTION:** Do not install any keder rail without first preparing rail as shown on previous page. **TAPE ALL SPLICE JOINTS AS SHOWN ON PREVIOUS PAGE.**

Attach all keder rails to trusses using 115646 neo Tek screws and nut setter. Grind down outer barrel of nut driver as needed to allow it to fit into keder channel where screws are located. Trim sealing tape from sides of installed keder rail. Lastly, snap keder cap into place. Complete these basic steps to attach keder:

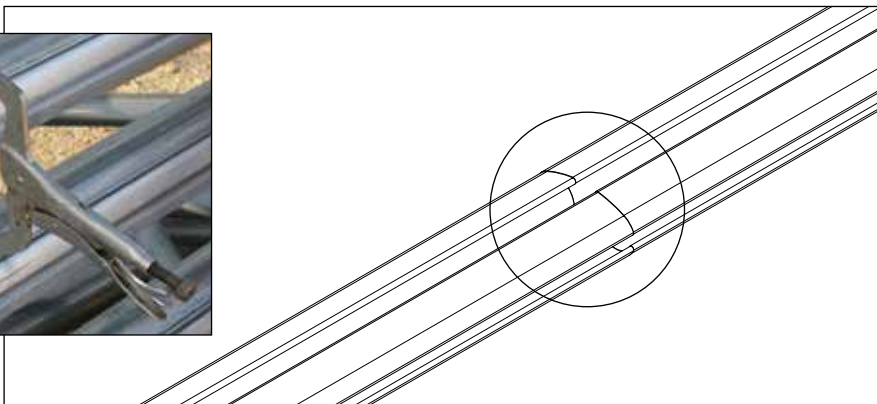
1. Identify which trusses require keder rails for cover installation. See *Cover Layout diagrams for locations pages 4-6.*
2. Beginning **at an end truss at an awning**, center prepared keder rail on awning frame tube.
3. Secure keder rail to frame tube using 115646 neoTek screws. Install a Tek screw in each predrilled hole.



4. Clamp next rail in place to align with installed rail.

**ATTENTION:** Verify tape position and ensure all splices are taped properly. *Align channels of each keder rail to ensure cover does not snag up between different rail sections.*

PHOTO SHOWS CUSTOMER-SUPPLIED CLAMP USED TO ALIGN KEDER RAILS TO HELP PREVENT COVER DAMAGE DURING INSTALLATION.



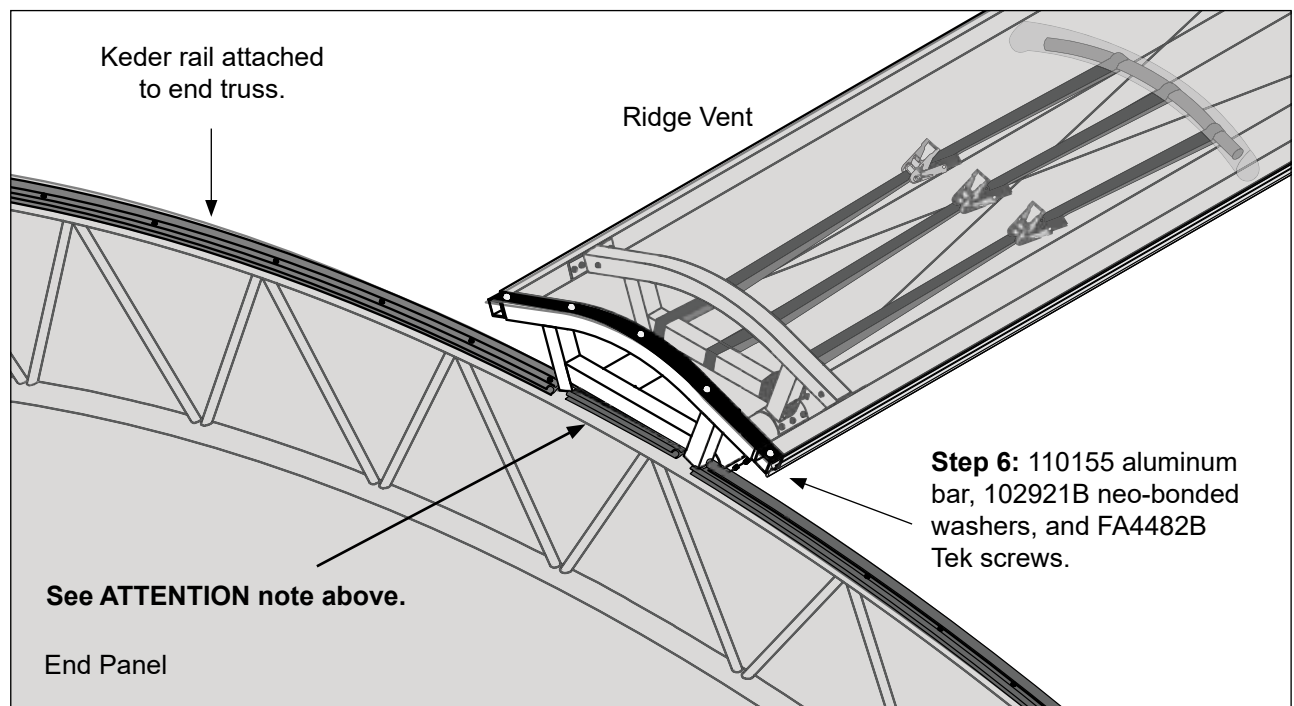


**KEDER RAIL INSTALLATION — continued**

- Continue attaching keder rail and working up to ridge vent frame.



**ATTENTION:** Depending on ridge vent design, keder rail at peak/ridge vent may be installed in a single piece *before adding final bow of ridge vent*. If rail interferes with installation of final bow, install bow and run keder up to bow. Cut a small section to install at truss peak as shown above.



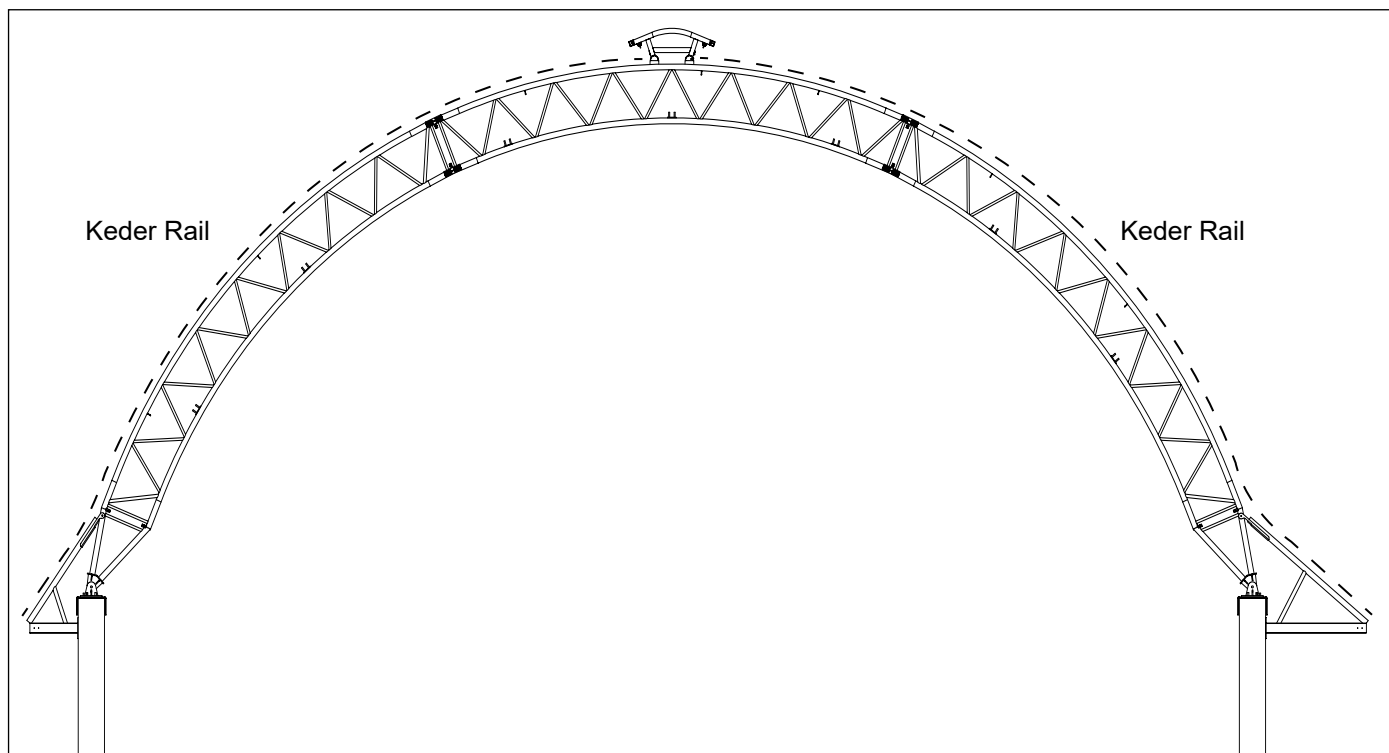
- Install final ridge vent frame bow. Finish ridge vent ends as desired by securing panel to vent frame using 110155 aluminum bar, 102921B neo-bonded washers, and FA4482B Tek screws. Excess panel is removed. One possibility is shown above.

**NOTE:** If ridge vent cover is installed, continue with next step.

## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER RAIL INSTALLATION — continued

7. Move to remaining awning *for same truss* and install first section of keder as previously described.

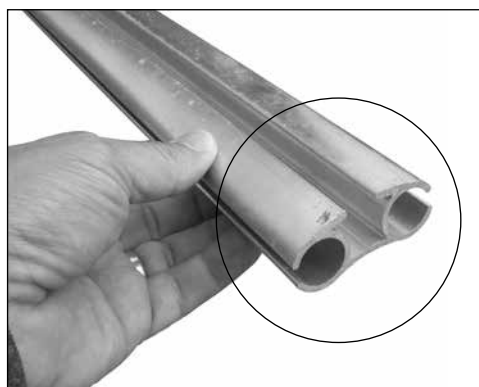


8. Continue attaching keder rail and working up to ridge vent and previously installed keder rail.
9. Once all keder rail is attached for first end truss, verify all screws are installed, remove metal filings from keder rail channel using a soft wire brush.
10. Install keder cap for first truss. See next procedure.
11. Return to all remaining trusses that require keder rail and install those sections of keder rail.

**NOTE:** Keder cap may need adjusted after covers are installed. Keder cap can also be installed after cover installation if lift is available to reach building peak from the outside. See next page comments.

#### IMPORTANT — KEDER RAIL

Before sliding keder cord of cover panel into end of a keder rail, file or ream keder rail ends to ensure there are no sharp edges to damage cover panel.



Keder Rail



File rail ends smooth to help prevent damage to panel.

**KEDER CAP INSTALLATION**

Keder cap ships as a continuous 150' roll that is cut to length as needed during assembly. It is intended to install as a single piece when possible with minimal splices. Review the information on this page to install the keder cap if this was not completed during truss assembly.

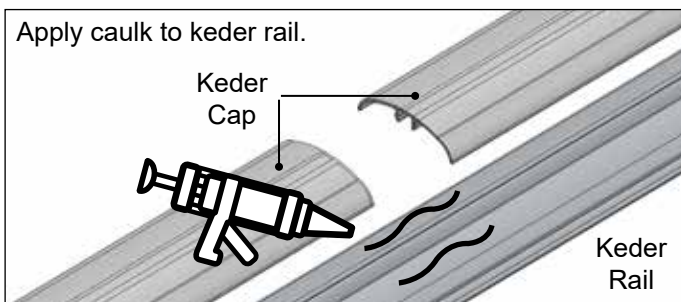
Photo shows keder cap position after building is erected and covers are installed. Contact customer service or your construction manager if you have questions.



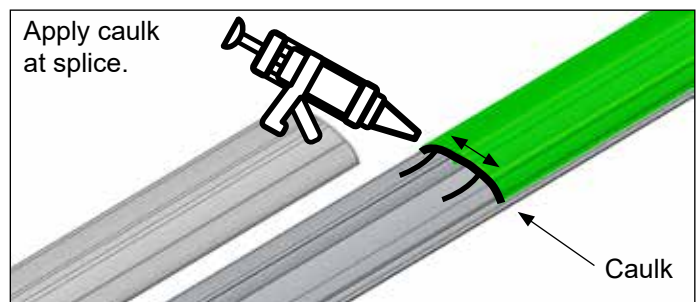
**KEDER CAP INSTALLATION**

Depending on building width, install the 150' keder cap roll so it covers the entire truss with no splice. If a splice is required, complete these steps:

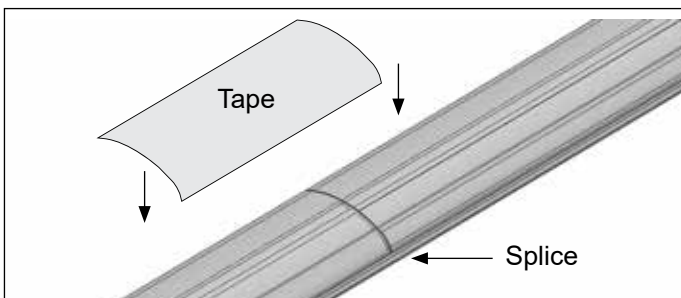
1. Trim the ends of the keder cap to ensure they will butt tightly to each other at the splice once installed. Mark the location of the splice on the keder rail.
2. Lift the ends of the installed cap slightly and apply a bead of clear QUAD caulk (115788) lengthwise along the top of the keder rail on each side of the channel.
3. Gently push the end of one keder cap down and apply more QUAD caulk horizontally/crosswise at the splice if necessary. **Do not fill channel opening.**
4. Align the end of the second keder cap with the first cap and press into place. Caulk will ooze out between the two keder caps to form a seal. Carefully wipe off excess caulk leaving a small bead over top of the splice.
5. Cut a 3" piece of white tape (116125) and center it over the splice. Apply the tape over the splice and press down firmly starting at the center and working outwards.
6. Using a utility knife, trim along the outer edges of the rail to avoid any drag on the covers as these are installed.



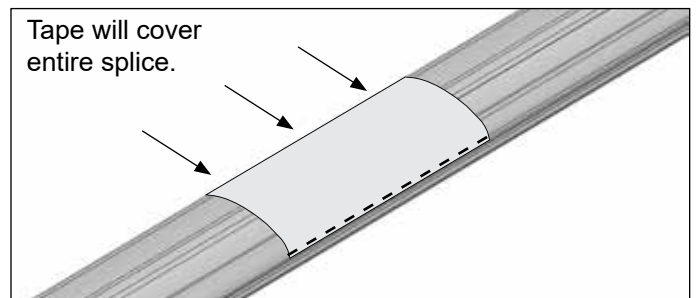
**Steps 1-2:** Lift end of each keder cap at splice.



**Steps 3-4:** Caulk splice and press keder caps into rail.



**Step 5:** Cut 3" section of tape, center, and install over splice.

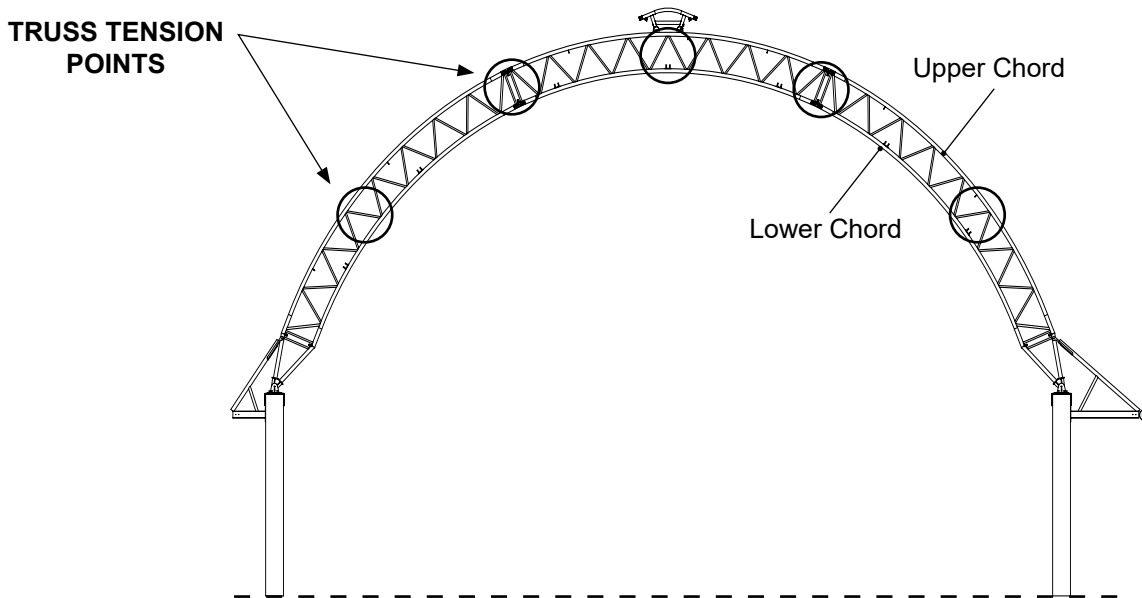


**Step 6:** Trim tape away from keder channel along each side of keder rail. See dashed line.

## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER-TO-KEDER COVER INSTALLATION — TENSION TRUSSES

Before pulling a keder-to-keder cover, install 2" straps and ratchets between trusses where cover will be installed. These 2" straps, when tightened, will tension trusses toward each other to allow easier installation of cover panel.



**IMPORTANT:** When using 2" strap/ratchets to tension trusses together, verify that tension is applied at all truss splice points as indicated by circles. Actual truss may show a different design and different tension points. Additionally, for wide buildings, use strap and ratchets at mid points between truss splices to better tension trusses.

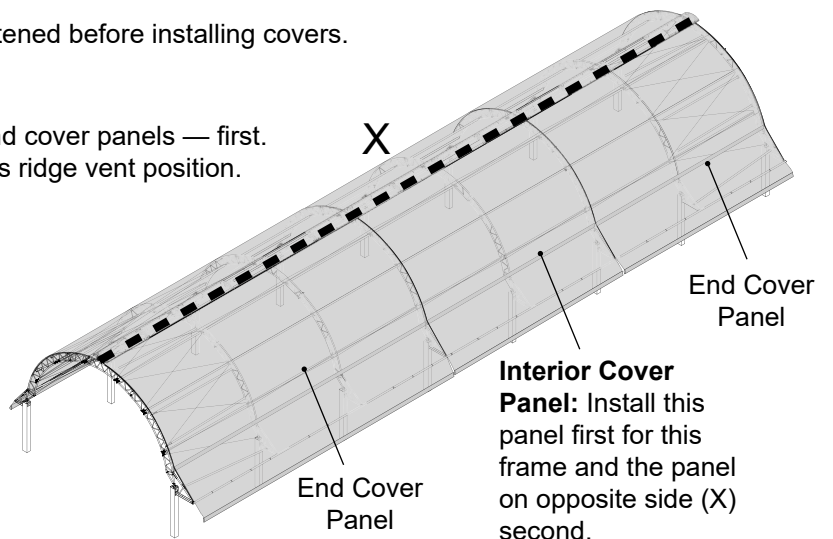
#### CHECK LIST BEFORE TENSIONING TRUSSES TOGETHER

1. Install sway cables **after installing cover panels**. If sway cables were installed before pulling covers, loosen and detach cables from one truss. Cables can hang from truss during cover installation.
2. Do not install angled braces for end trusses. (Installed braces prevent top chord from tilting inward.) If angled braces were installed during frame assembly, remove these and install after pulling end cover panels.
3. Loosen ridge vent brackets that secure ridge vent frame to upper truss chords on those trusses that are tensioned for cover installation. **Top chords cannot be tensioned toward each other if ridge vent is secured to truss.**

**ATTENTION:** Detach ridge vent frame from only those trusses to be tensioned together. (These are the trusses that include installed keder rail.) Once cover panels on each side of frame are installed, release tension on trusses, install sway cables between trusses where cover was installed, and reinstall ridge vent brackets.

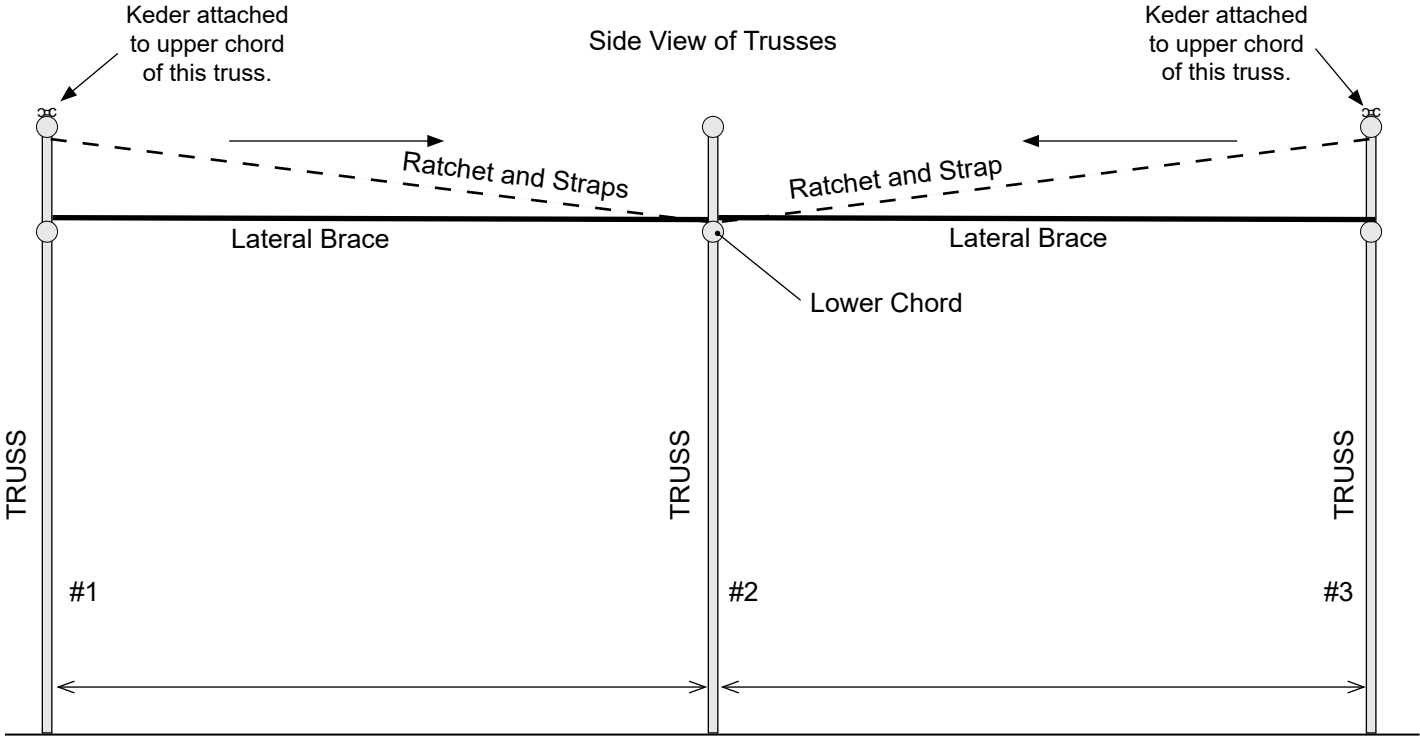
4. All *structural cables* should be installed and tightened before installing covers.
5. Both awning frames should be fully constructed.
6. Install interior cover panels — those between end cover panels — first. See sample frame — right. Dashed line identifies ridge vent position.

**IMPORTANT:** If you have any questions or concerns regarding the installation of cover panels for your building, contact customer service or your project manager **before you begin**.

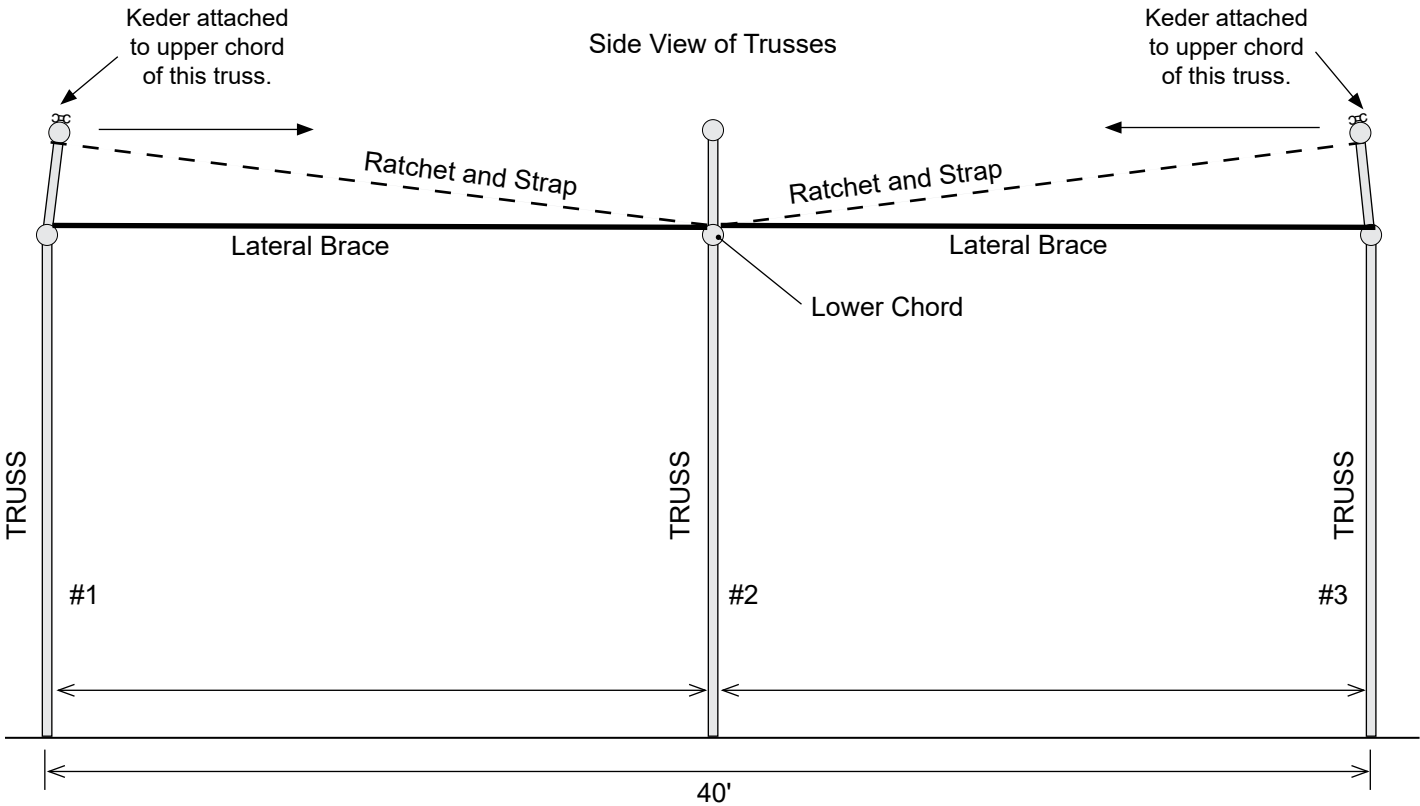


KEDER-TO-KEDER COVER INSTALLATION — TENSION TRUSSES (continued)

These simplified cross-section diagrams show where to attach strap and ratchet assemblies (dashed lines) to pull upper chord of keder trusses (#1 & #3) together for cover installation.



Keder cover will span area between two trusses with keder attached — #1 & #3. Example below shows truss section for a 40' cover panel. Tighten straps to tension (or roll) upper chord of each truss toward each other to install keder panel. After panels on each side of ridge vent are installed, straps are released to allow truss chord to return to position. Use sway cables to align upper and lower chords of each truss.



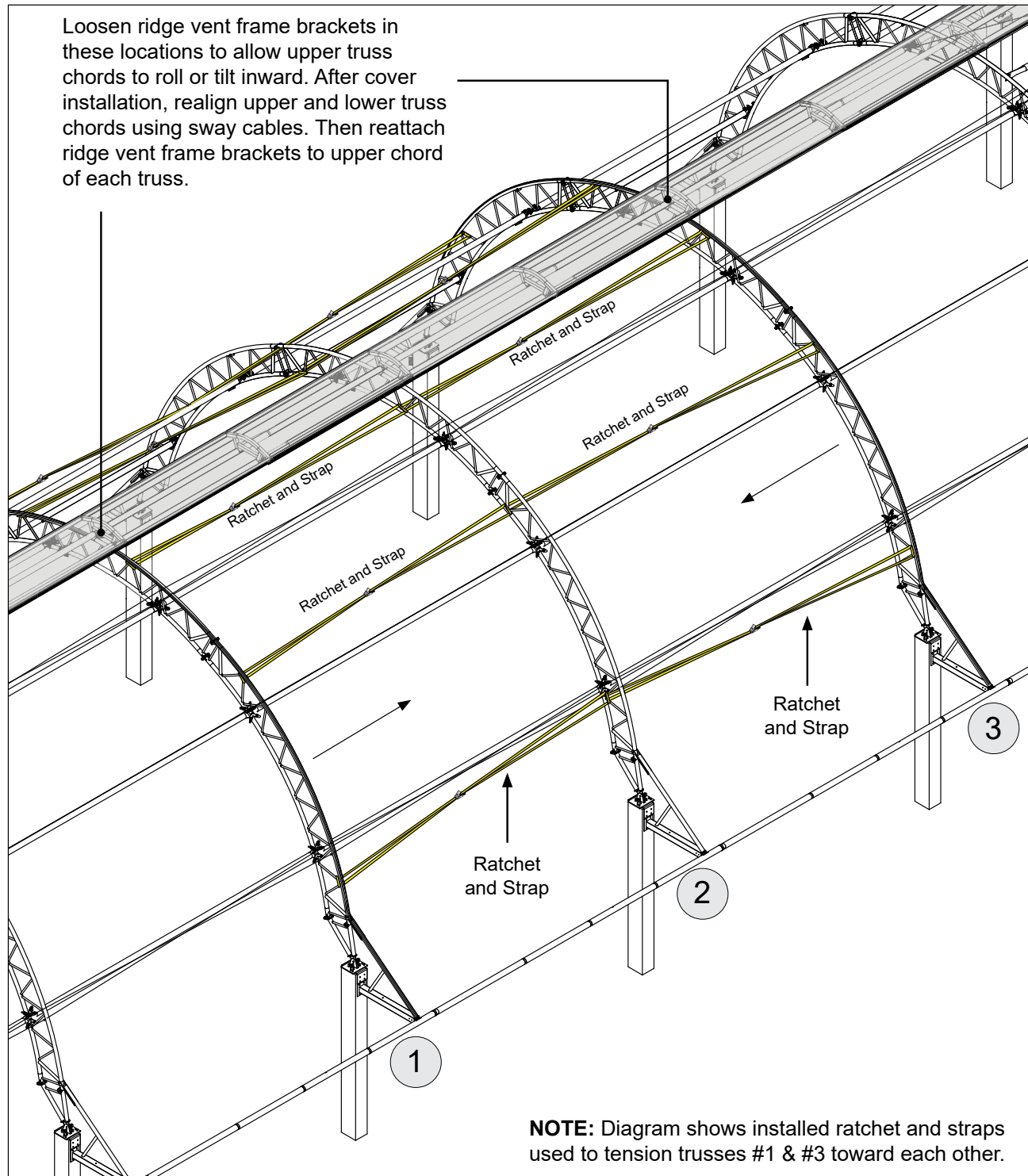


## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER-TO-KEDER COVER INSTALLATION — TENSION TRUSSES (continued)

Example shows tensioning trusses to install a cover panel between end cover panels. After reviewing diagrams on previous pages, complete this section to tension first set of trusses.

1. Chose where to install first keder-to-keder cover panel. This is typically near middle of frame for standard buildings. Consult cover layout diagrams as needed. Review materials list to determine if covers are all the same for the building, or if certain cover panels are designed to install in a specific frame location.

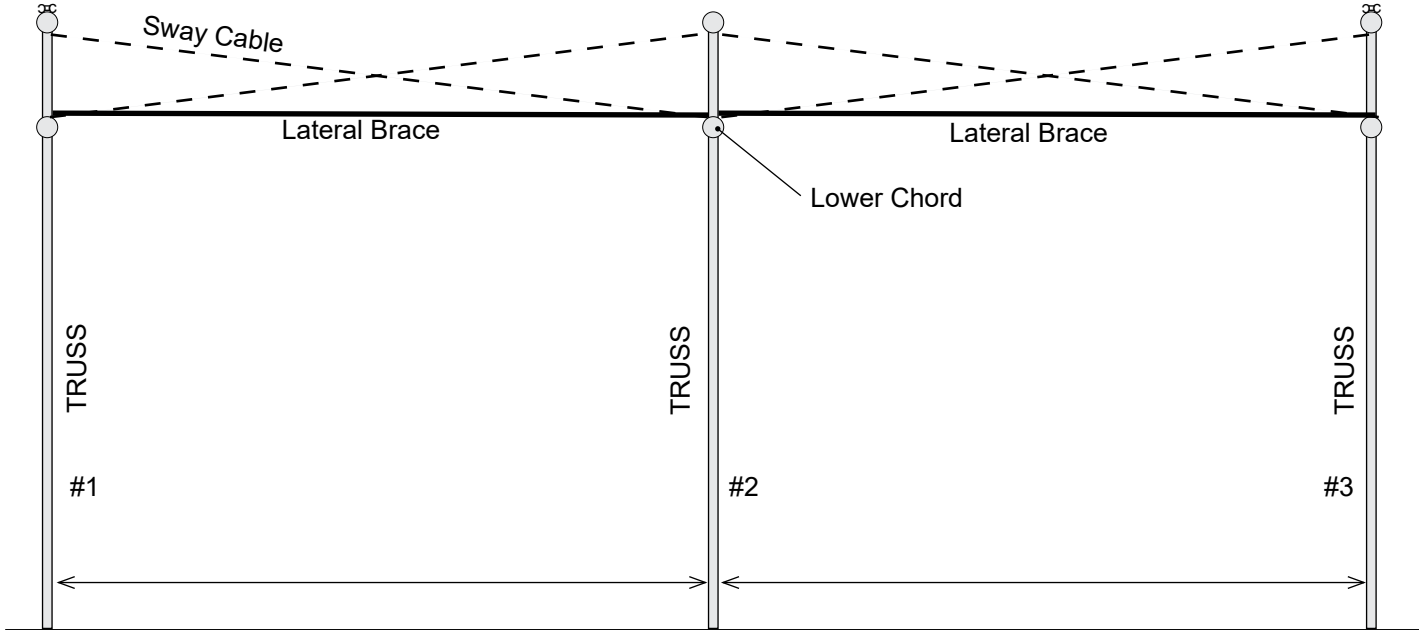


**ATTENTION:** Install cover panels at each frame end last. Due to length, some buildings may only include two (2) cover panels. In such cases, begin at either end.

KEDER-TO-KEDER COVER INSTALLATION — TENSION TRUSSES (continued)

- 2. Detach ridge vent frame brackets from the two trusses with attached keder rail that will be rolled together. See note on diagram (previous page).
- 3. Loosen sway cables between all trusses if these have been installed and tightened. **Do not attempt to tension the upper truss chords when sway cables are tight.** Sway cables span from upper chord of one truss to lower chord of next truss to form an "X" between trusses.

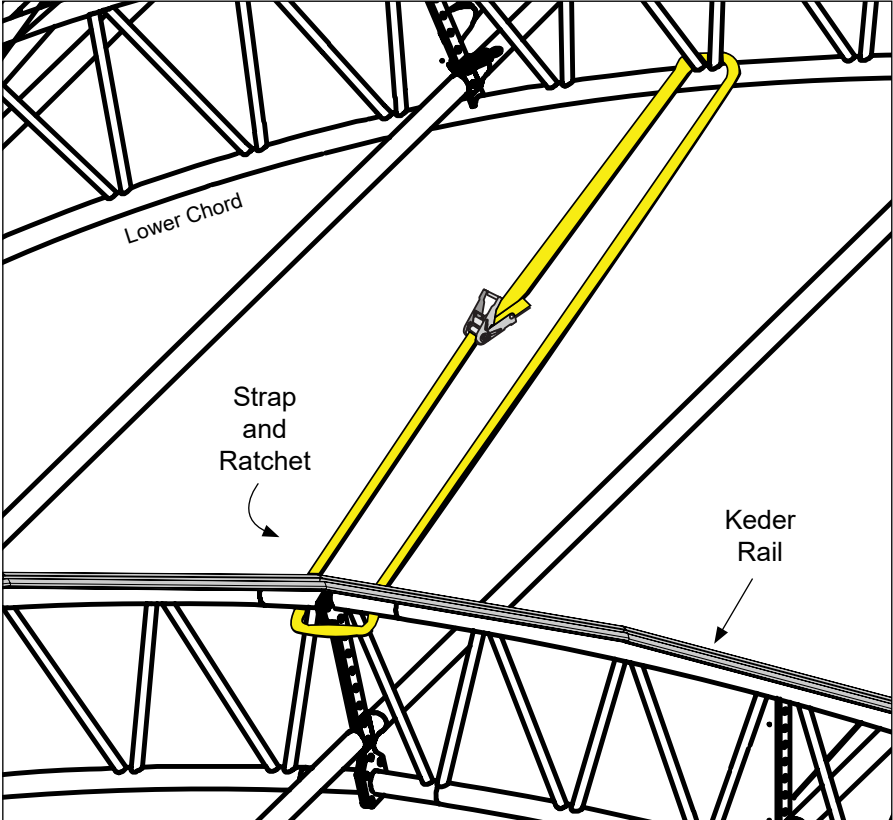
Typical Sway Cable Locations: Loosen or detach one end of each before continuing.



- 4. Install 2" straps and ratchets at all tensioning points between upper chord of truss and lower chord of adjacent truss.

**ATTENTION:** See diagram on page 16 for tensioning points.

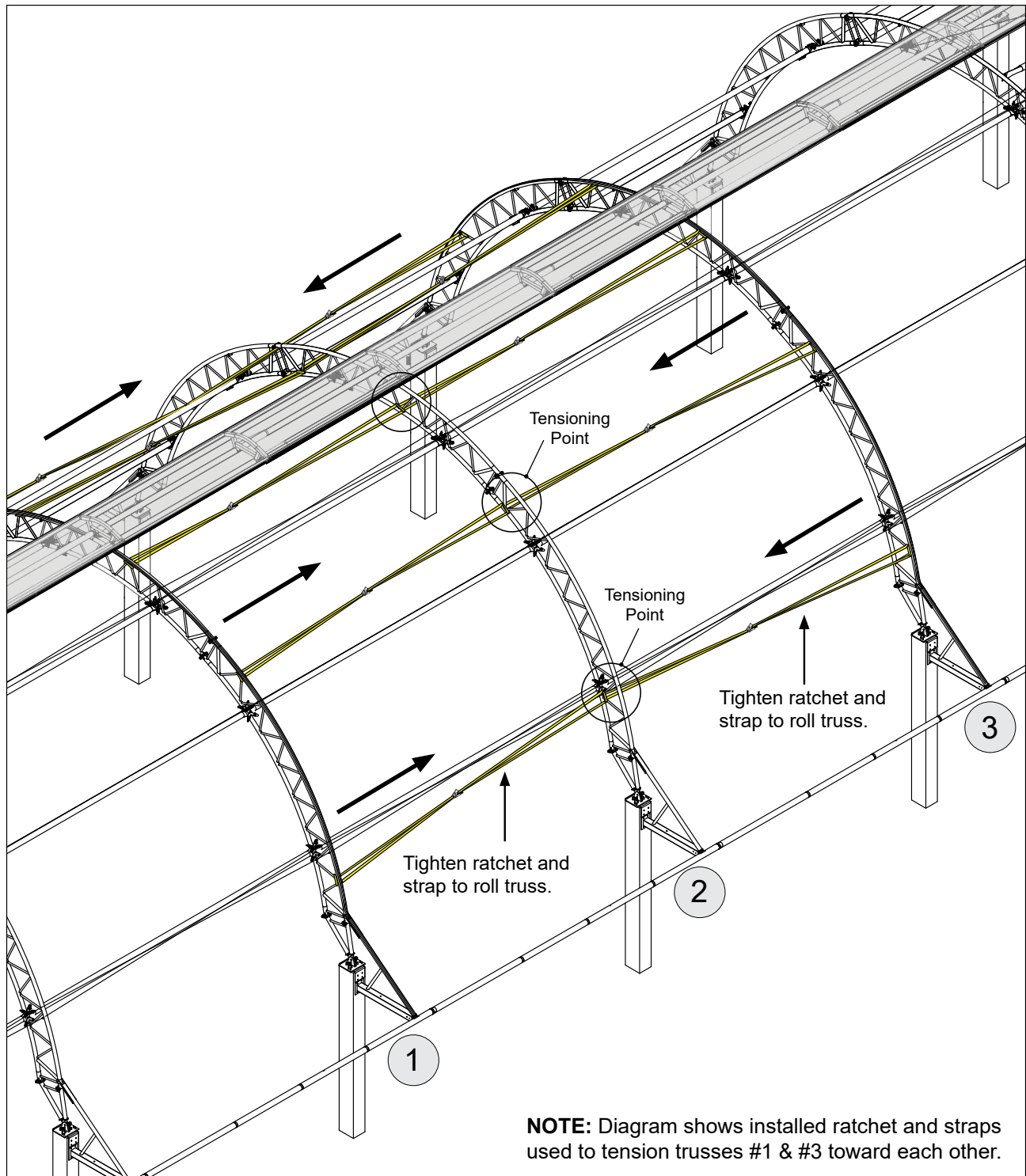
Wrap straps around web tubes near top of each truss splice joint on trusses with keder rail attached and around web tubes near lower truss chord on adjacent truss as shown in diagrams.



## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER-TO-KEDER COVER INSTALLATION — TENSION TRUSSES (continued)

- Once all ratchet assemblies are installed, tighten all ratchets to tilt (or roll) upper chord. Tighten until upper chord of each truss is tilted approximately 4" - 6" toward each other.

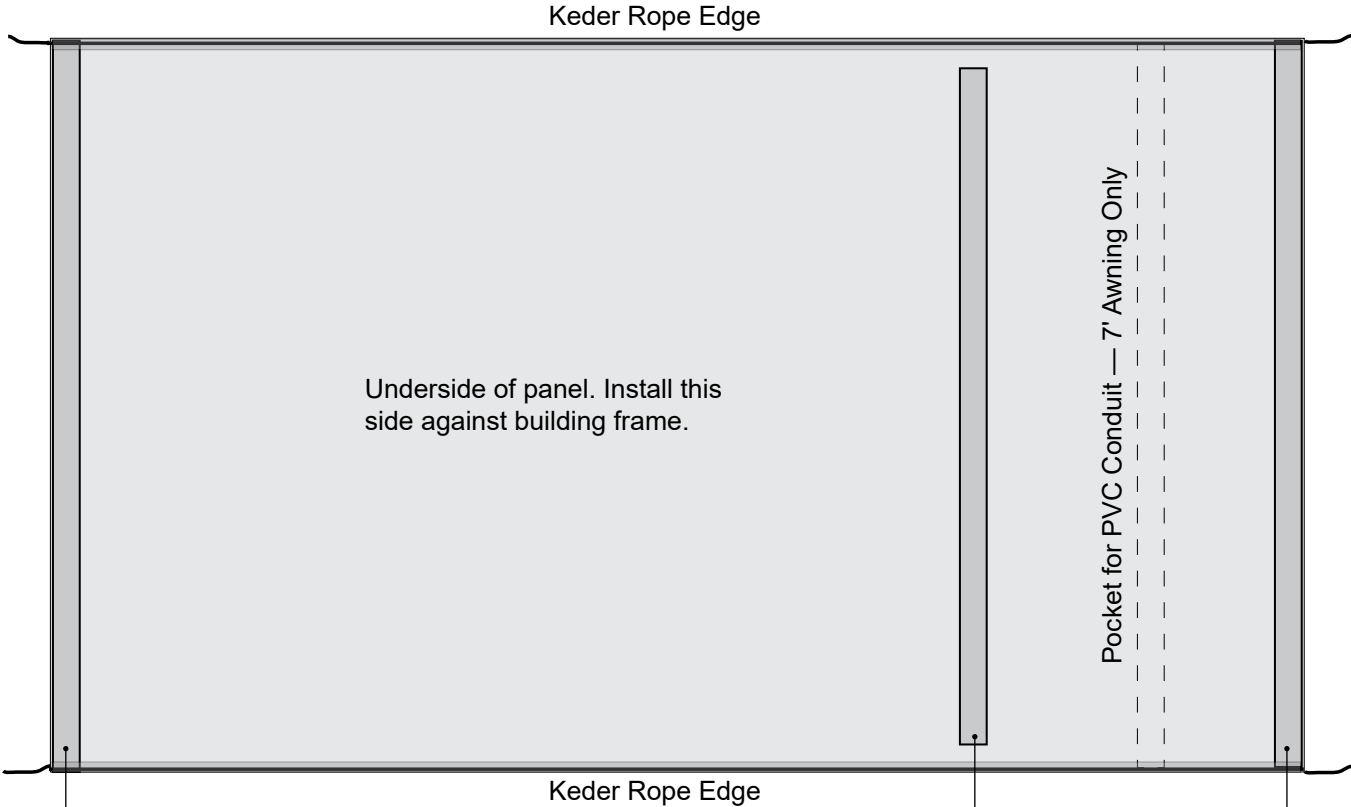


- Continue by staging first cover panel for installation.

**ATTENTION:** Do not attempt to tension (or roll) other trusses until cover panels are installed between these first tensioned trusses and tension is released.

KEDER-TO-KEDER COVER — TYPICAL COVER DESIGN FOR BEEF MASTERS WITH RIDGE VENT

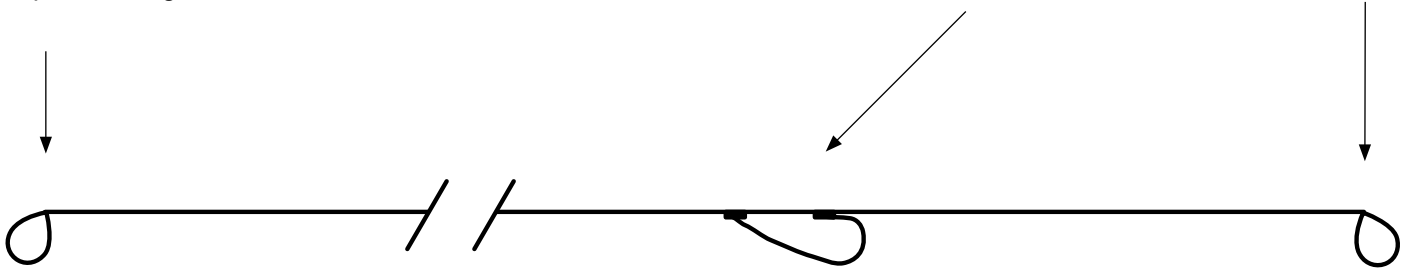
Diagrams below show basic cover design. Underside of cover panel is shown.



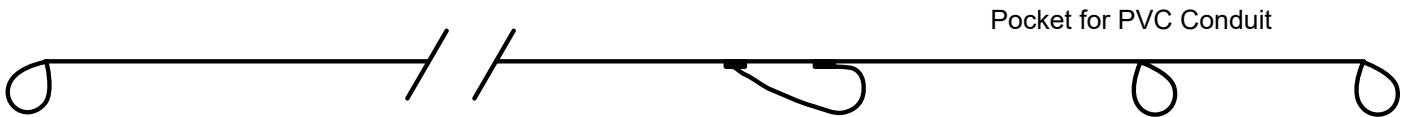
Install 1.90" pipe (190S099) in upper pocket used to pull cover onto frame. Secure this pipe to ridge vent frame at top of building.

Install 3.50" pipe (350S148) in awning side upper pocket used as main tensioning pipe.

Install 1.90" pipe (190S099) in awning side lower pocket to secure awning cover to frame.



Side View of Cover Panel — Buildings with 4' Awning



Side View of Cover Panel — Buildings with 7' Awning



## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER-TO-KEDER COVER INSTALLATION — STAGE COVER PANEL

The following steps show how to prepare and stage one cover panel for installation. Repeat for remaining covers.

Complete these general steps:

1. Prepare site along building frame.



Photo shows plastic (customer-supplied) on ground to protect cover during preparation and installation.

2. Move first cover panel into position. See layout guide for cover panel identification.



Move cover to prepare and install. Set into position next to frame.

3. Position panel so upper pocket for 1.90" pipe (190S099) is closest to frame and awning pockets are toward frame when panel is pulled into position. Review diagrams on previous page.



Photos show cover as it is unrolled to prepare for installation. Cover is heavy. Use assistants to unroll and prepare.

4. Position panel so keder cord ends will align with keder rails attached to trusses. **Do not pull onto frame yet.**
5. Continue by preparing cover and installing 1.90" cover pipe used to pull cover onto frame.

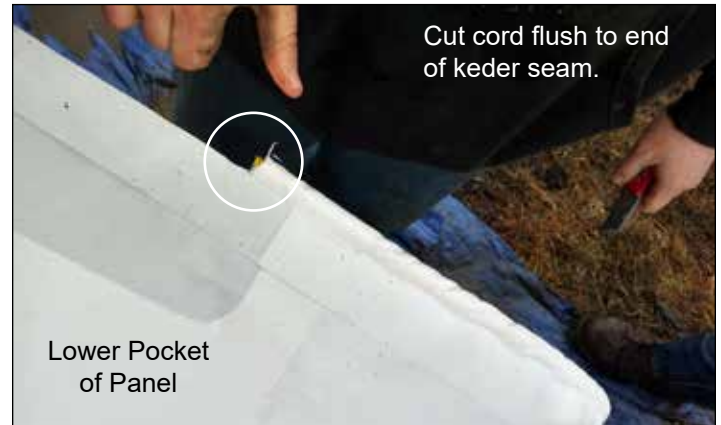
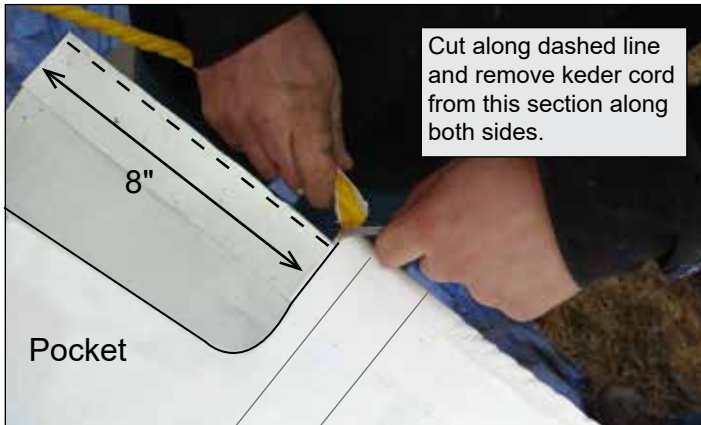


**KEDER-TO-KEDER & KEDER-TO-BONNET COVERS — PREPARE KEDER EDGES FOR INSTALLATION**

Before pulling any keder cover panel into keder rails, prepare panel by trimming keder rope and pipe pocket. Once cover is prepared, insert 1.90" pipe (190S099) into pocket. Toss straps over frame and tie to pipe to pull cover onto frame.

Complete these steps to prepare cover before pulling onto frame:

1. After staging cover along the frame, locate single pocket at cover edge and measure 8" from pocket end along keder rope as shown.



2. Cut along rope edge to remove 8" of keder rope along each side of the panel as shown.

**ATTENTION:** Keder-to-Bonnet covers have only one corner to prepare. Corner is along edge aligned with keder rail attached to truss opposite bonnet. After preparing corner as shown below, continue with next step.



3. Continue by installing the 1.90" pipe, which is used to pull cover onto frame.

## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER-TO-KEDER COVER INSTALLATION — PREPARE AND INSERT 1.90" (190S099) PIPE

Complete these steps:

1. Place 1.90" (190S099) pipe in a position near cover end so pipe can be assembled and slide into panel pocket.



**WARNING:** To prevent injury and property damage, do not attempt to install cover on windy or stormy days.



Tools and materials needed for installation of cover pipes include:

- 1.90" pipe (190S099)
- FA4482B Tek screws
- Duct tape
- Clutched power driver and nut setter
- Liquid soap mixture (may not be needed) to lubricate pipe and panel pocket during installation.

2. Secure each pipe splice using self-tapping Tek screws.



Photo shows connecting first two pipes.



Install two Tek screws to secure each pipe joint.



Wrap splice and Tek screws with duct tape.



**IMPORTANT:** Use two Tek screws to secure splice and to prevent separation. To protect cover pocket and to allow pipe to slide into pocket, **wrap all splices and Tek screws using duct tape.** Cover end of pipe with duct tape to protect panel pocket when inserting pipe.

KEDER-TO-KEDER COVER INSTALLATION — PREPARE AND INSERT PIPE (continued)

- Slide assembly into pocket of cover panel. *Pocket is at end of cover panel.*

Actual cover design may differ from example shown.

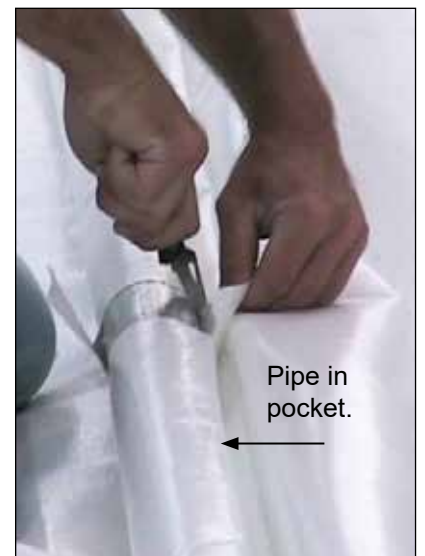
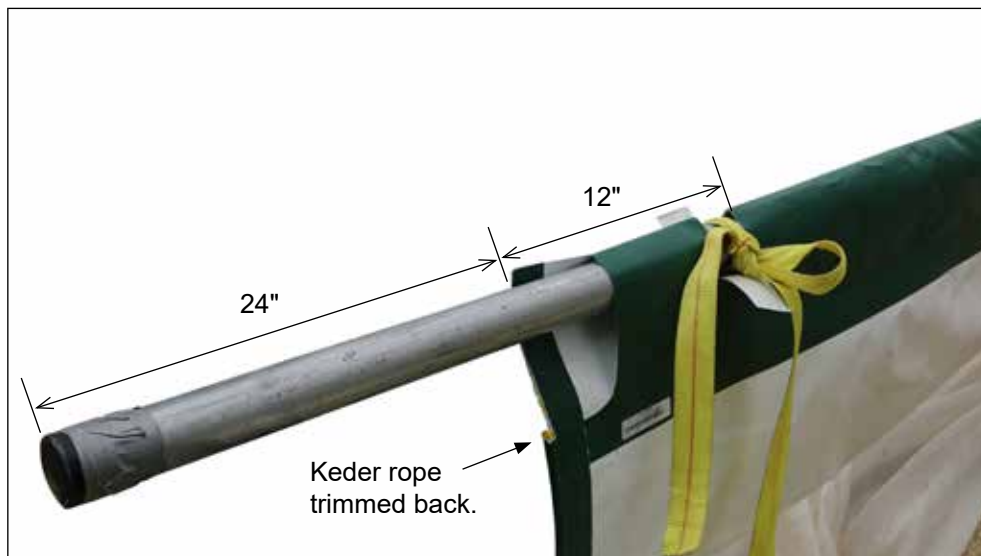
Photo (below) shows where to apply the soap solution, if needed, before inserting the first pipe section into cover pocket.

Tape end of pipe before inserting to protect cover panel.



**ATTENTION:** Allow pipe assembly to extend beyond pocket at each end approximately 24". Pipe ends ride on top of keder rails attached trusses as panel is pulled onto frame.

- Determine where to attach straps used to pull cover onto frame.



- Cut an opening in pipe pocket 12" from each end to access pipe. Space straps every 20' or so. For 40' panels, use three (3) straps. Use four (4) straps for 60' panels. Depending on conditions and equipment, add more straps if needed. Pipe should remain straight/parallel with ridge vent frame when pulling cover to prevent cover damage.



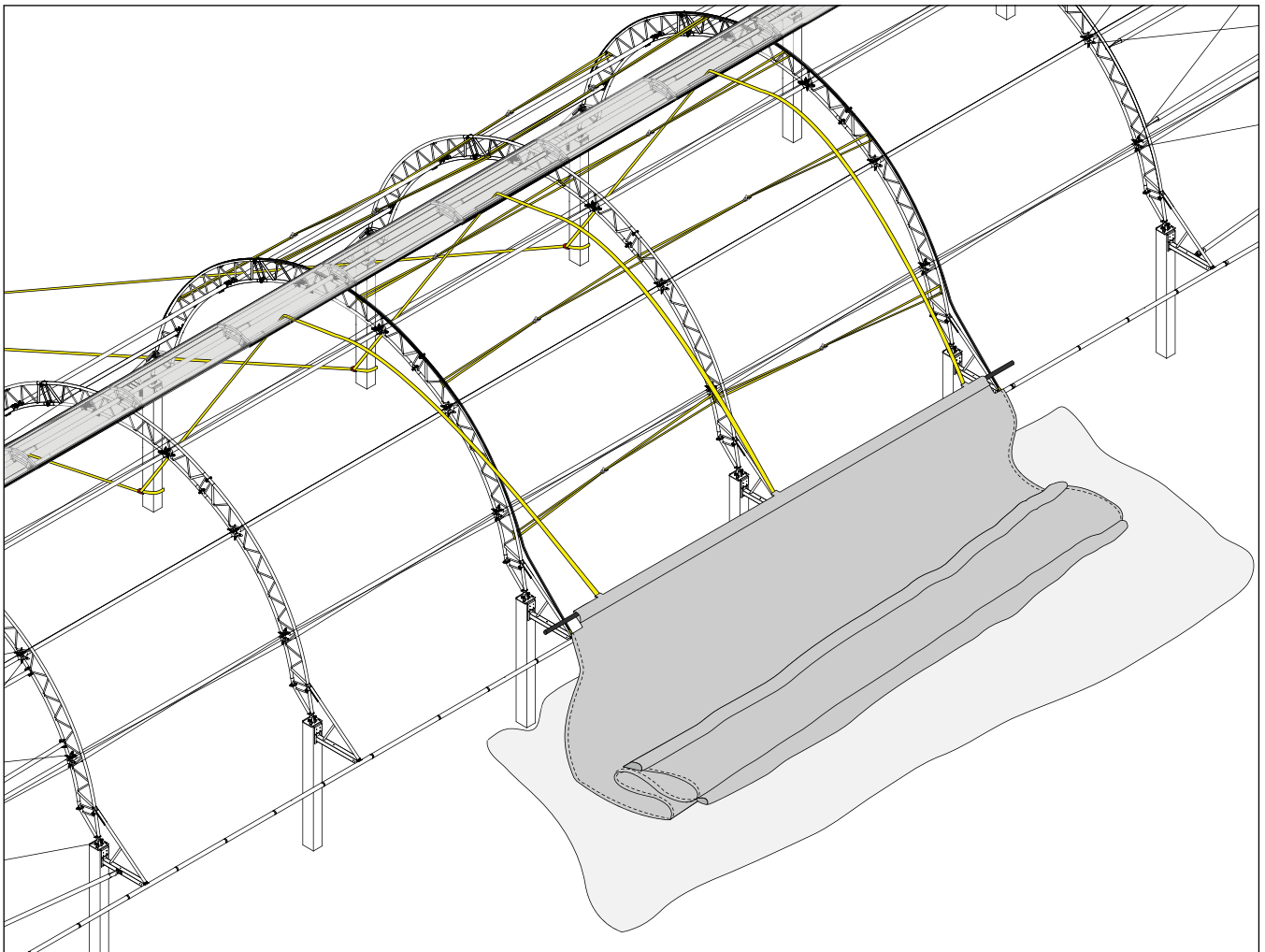
## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER-TO-KEDER COVER INSTALLATION — PREPARE AND INSERT PIPE (continued)

6. With pocket material cut to access pipe at all strap locations, tie straps to the 1.90" pipe. Tie one strap to pipe near each end and at 20' intervals and toss straps over frame to the other side. **Use common sense when pulling covers! Use additional straps if needed.**



**NOTE:** Diagram below shows a cover panel staged for installation. Free ends of straps are tied to a lift positioned on the opposite side of frame.

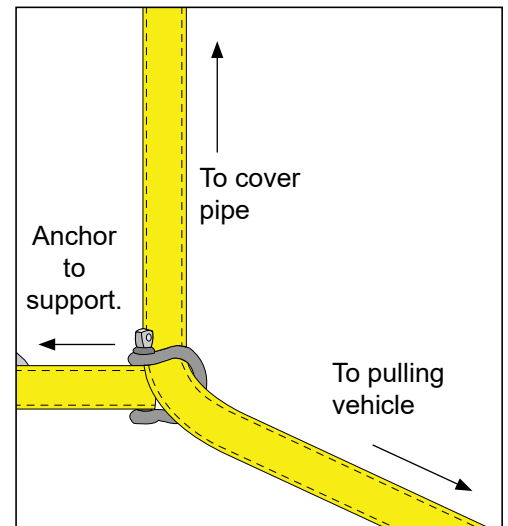
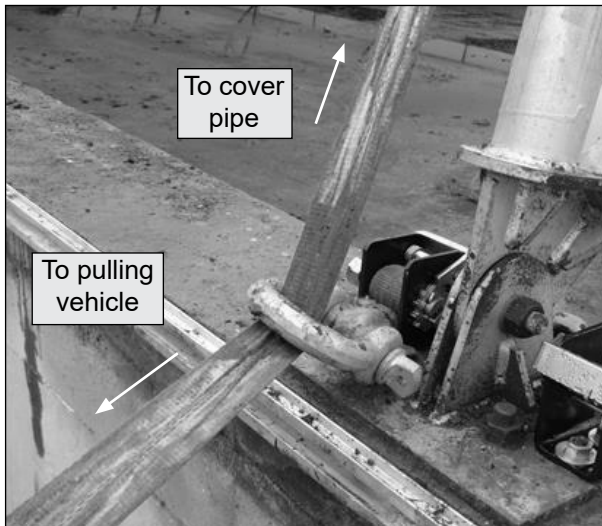


7. Continue by pulling cover panel onto frame.

**KEDER-TO-KEDER COVER INSTALLATION — PULL COVER ONTO FRAME**

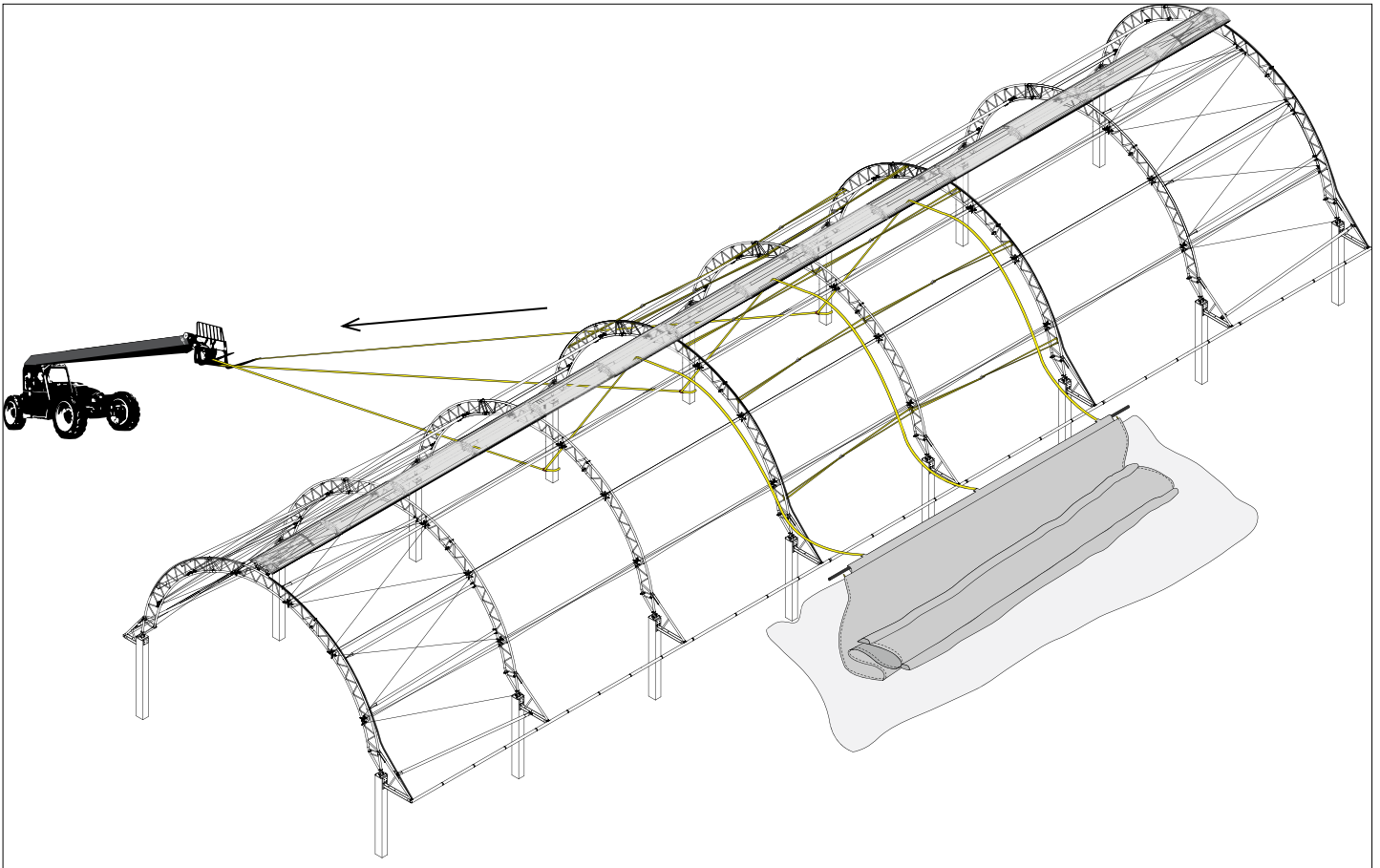
Complete these steps:

1. Determine the direction pull vehicle will travel to pull panels onto frame. Consider obstacles and adjacent buildings. Use straps and customer-supplied shackles to anchor pulling straps. See diagram and photo for examples.



**ATTENTION:** Shackles allow travel direction of pull vehicle to change based on site limitations and obstacles such as buildings. Depending on site, shackles may not be needed.

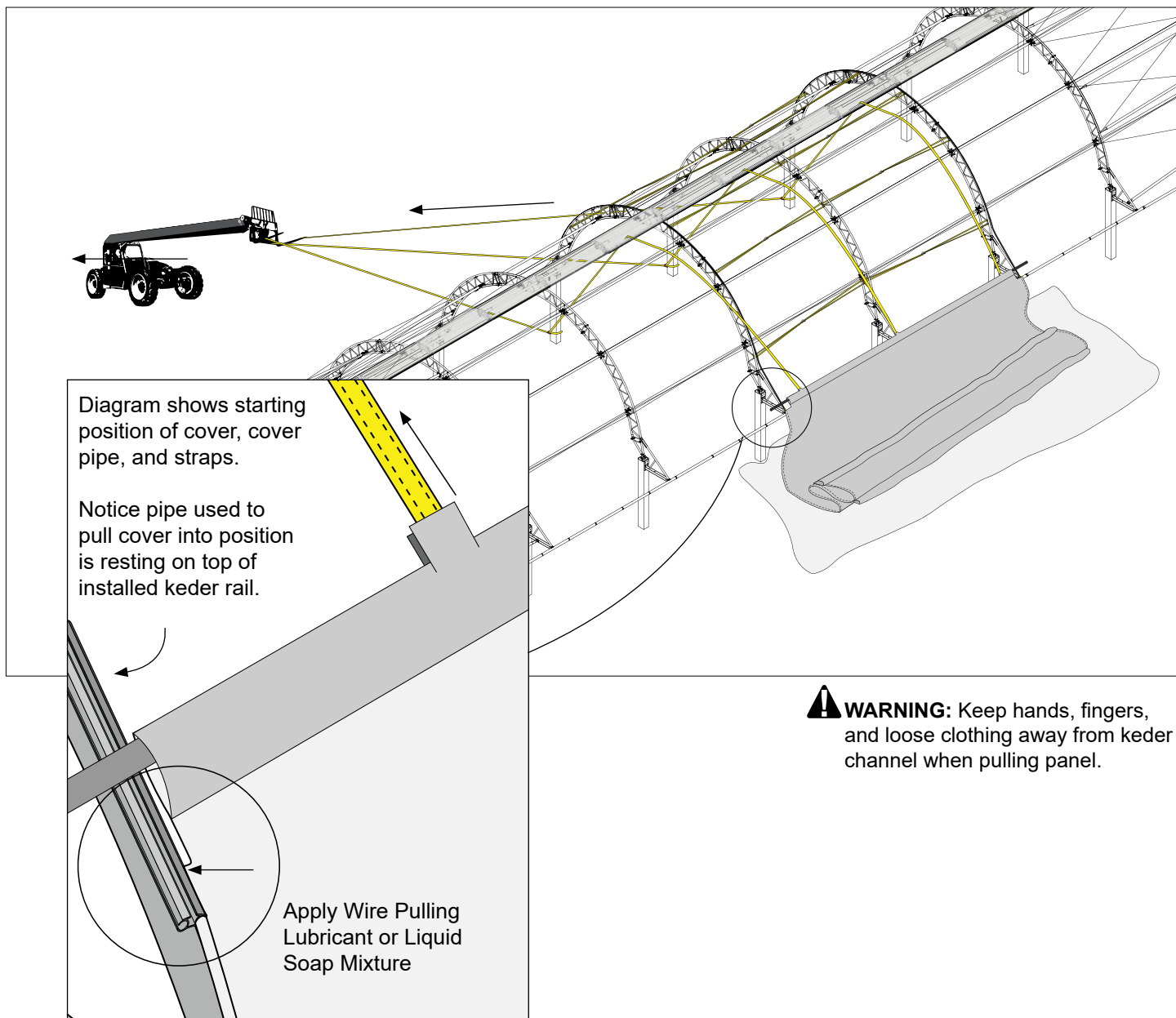
2. After tying straps to pipe in panel pocket (previous section), toss straps over frame to opposite side. Thread strap ends through ridge vent frame ***under ridge vent panel*** and through attached shackles (if used). Tie straps to vehicle used to pull panel into place.



## CLEARSPAN™ TRUSS ARCH BUILDINGS

### KEDER-TO-KEDER COVER INSTALLATION — PULL COVER ONTO FRAME (continued)

- Carefully tighten straps by moving vehicle and lifting leading edge of panel up to keder rails attached to trusses.
- Position pipe on top of keder rail as shown and apply wire pulling lubricant (not included) or a liquid soap mixture to keder cord and keder rail.



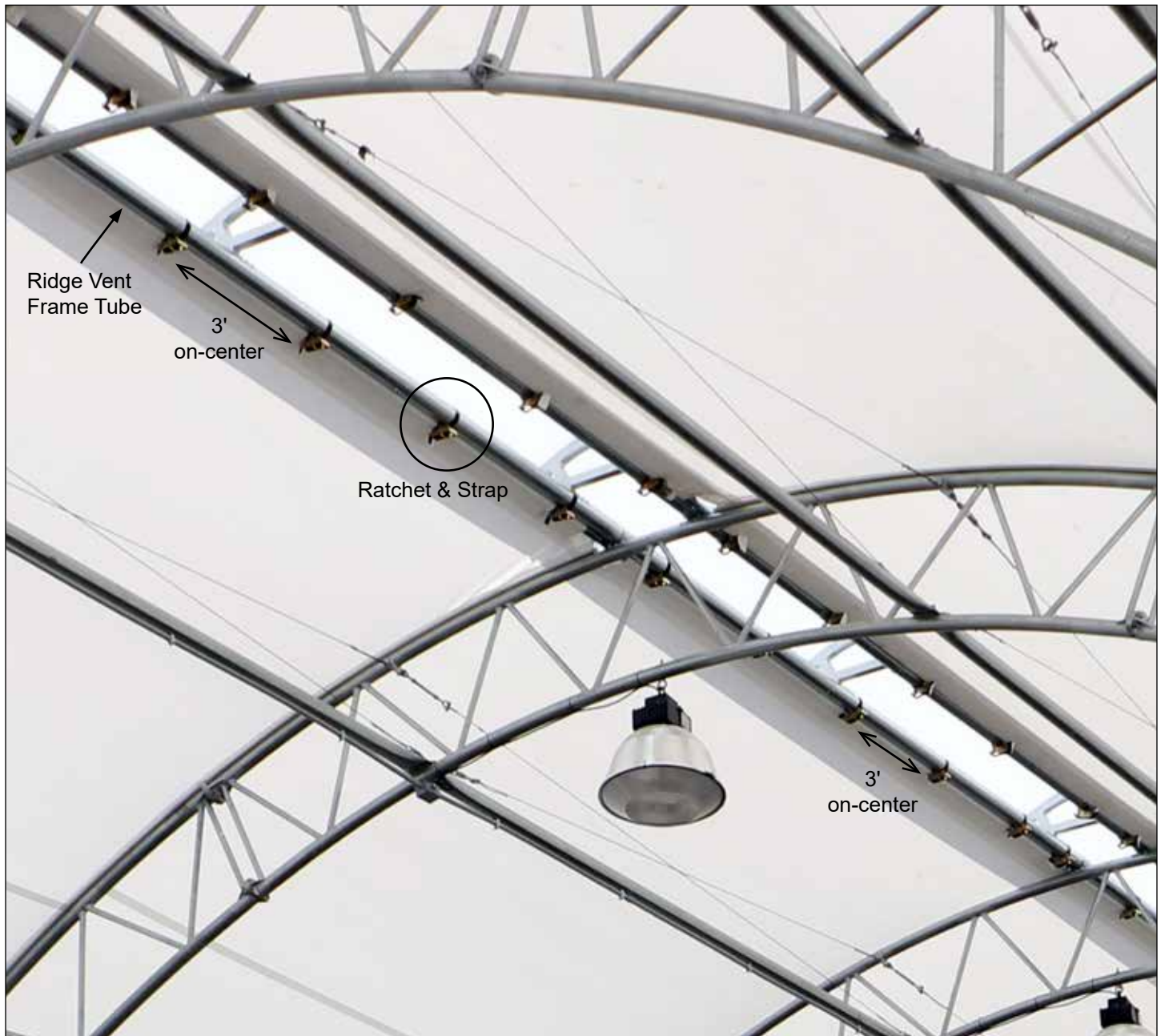
- Slide keder cord of panel into keder channel. See above.
- Slowly move pull vehicle to tighten straps and to verify that leading edge with pipe in pocket is square and even between trusses. Loosen pull straps as needed to adjust. **DO NOT PULL PANEL WHEN PANEL IS NOT SQUARE BETWEEN TRUSSES.**
- Carefully and slowly begin pulling panel into place. Keder rope should glide easily into and through keder rail during installation. Verify panel pockets are toward inside of frame when panel is installed.

**ATTENTION: DO NOT USE EXCESSIVE FORCE WHEN PULLING COVER!** Station someone in a lift to watch and lift panel as cover is pulled through keder and to add wire pulling lubricant (not included) or soap mixture to keder channel as needed. **Assistants are needed to feed keder edges into keder rails as panel is pulled.**



**KEDER-TO-KEDER COVER INSTALLATION — PULL COVER ONTO FRAME (continued)**

8. Continue pulling panel up until pipe in panel pocket touches 3.50" pipe of ridge vent frame, which is the anchor pipe for cover panel.
9. Once cover is pulled into position, remove straps used for pulling.
10. Beginning at one end of 1.90" cover pipe, install the first ratchet and strap assembly (111399) using the opening where pulling strap was tied.
11. Make a 2" cut at 3' on-center intervals along cover to the other end.
12. Wrap strap around 3.50" ridge vent frame pipe, insert end into cut of cover panel, and thread end into ratchet.



13. Tighten ratchet and repeat steps to install all remaining ratchet and strap assemblies for cover panel.
14. Continue by installing main tensioning pipe near lower/awning end of panel.

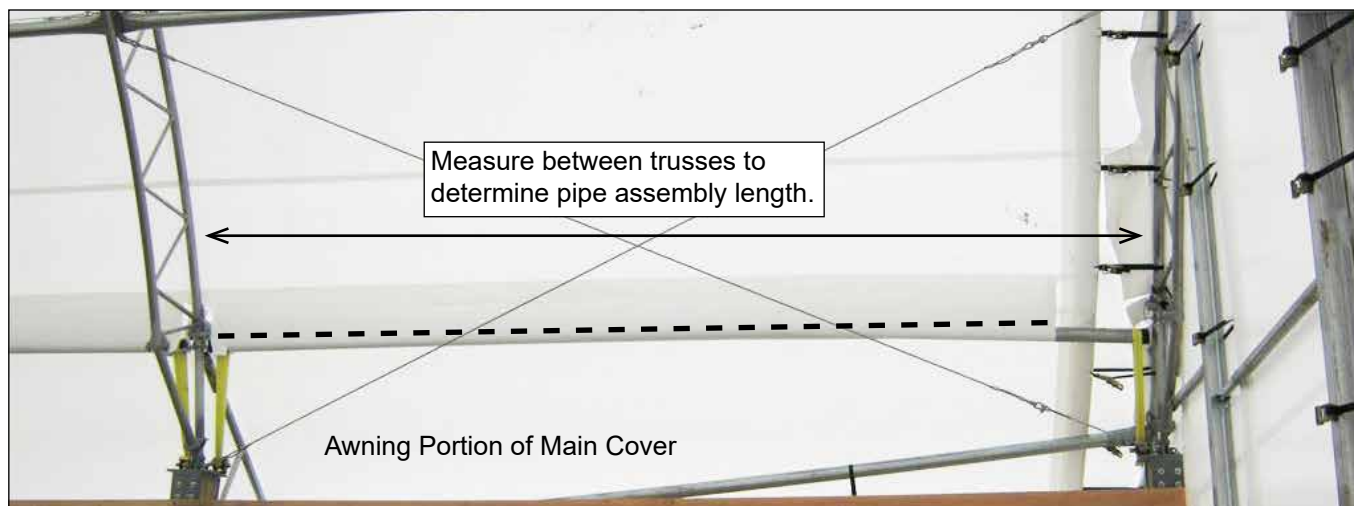
## CLEARSPAN™ TRUSS ARCH BUILDINGS

### INSTALL MAIN TENSIONING PIPES AND STRAPS

The large, upper side pocket of main cover is used to tension cover from top to bottom. Individual 3.5" pipe (350S148) assemblies are first constructed and then slid into pocket between two trusses. Pockets are cut at each winch location to install tensioning straps. Once pipe assembly is installed, winches are tightened to secure cover panel.

Complete these steps to install side pipe assemblies:

1. Measure between first set of trusses to determine length of 3.50" pipe needed. See inside view shown below.



**ATTENTION:** Once inserted into upper pocket, pipe ends should align with winches attached to frame. Pipes should not contact truss at either end. Dashed line identifies pipe in pocket.

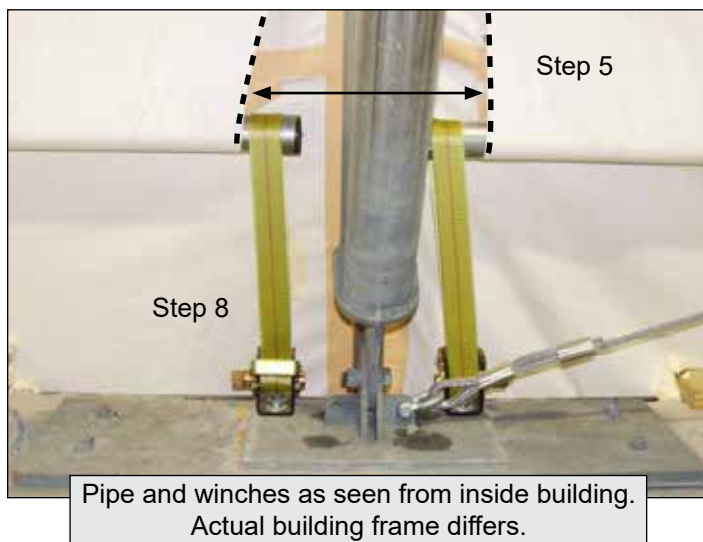
2. Take two sections of 350S148 pipe, connect them, and secure splice using Tek screws. Tape over Tek screws as previously described earlier in this guide.
3. Cut pipe to length determined in Step 1.
4. Cap each end using 112161 vinyl cap. Tape capes in place using duct tape.
5. Move to pocket location between trusses and remove a section of pipe pocket material in line with the winches to prepare for strap installation. *Cut only the pocket.*

**NOTE:** Photo (lower-right) shows section of pocket removed to allow access to ends of tensioning pipes.

6. With assistance, slide pipe into pocket and center so ends are above installed winches.
7. Measure and cut yellow 2" straps to length.

**IMPORTANT:** When measuring strap length, remember straps wrap around pipe and *both strap ends* are inserted into a winch. *Always use 2" yellow strap for securing lower end of cover.*

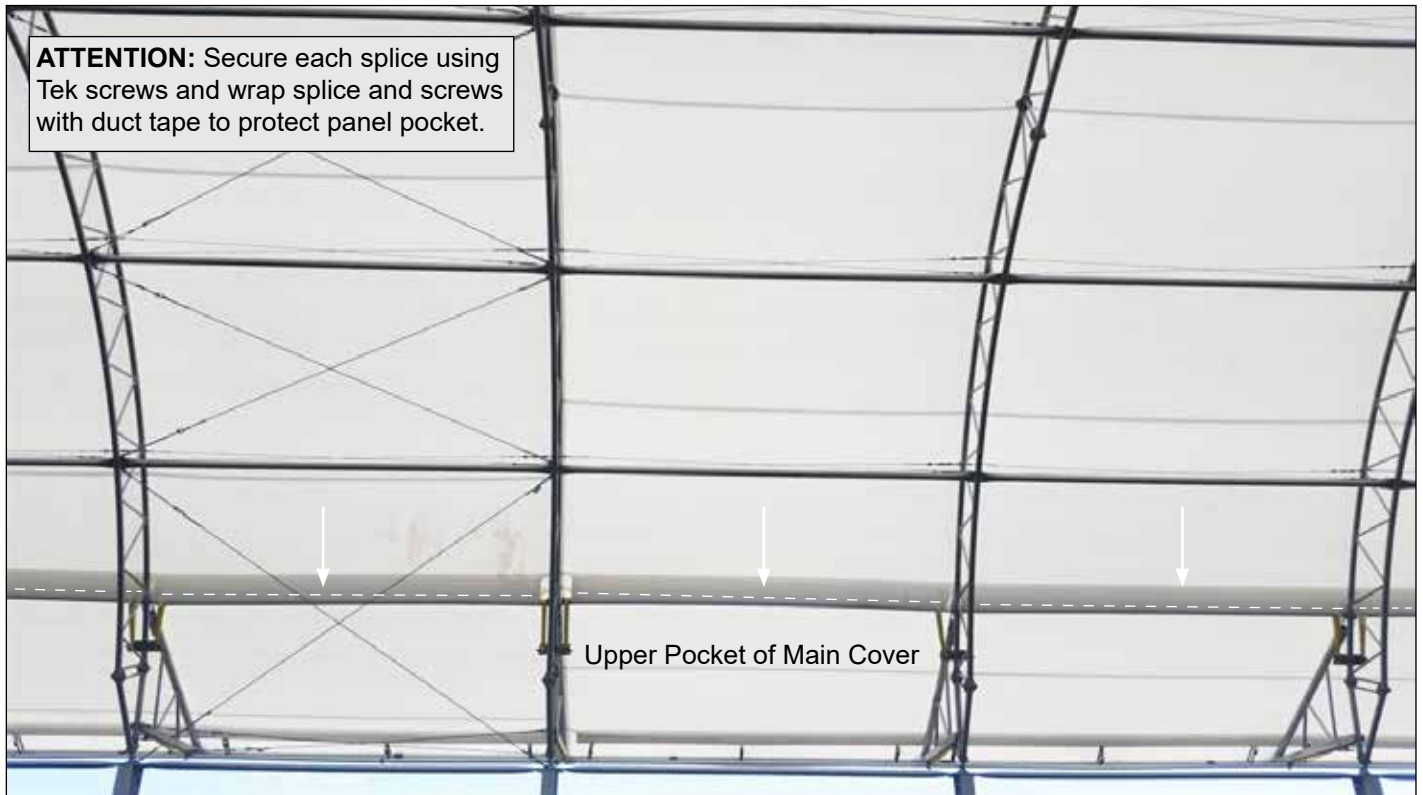
8. Install by wrapping each strap around pipe and insert strap ends into winch. Slightly tighten to remove strap slack. **Positions of winches and overall truss design may differ from what is shown.**





INSTALL MAIN TENSIONING PIPES AND STRAPS — continued

- Repeat steps to install all remaining 3.50" (350S148) pipe assemblies in upper pocket along awning of cover panel.



**ATTENTION:** Dashed lines show locations of individual pipe assemblies in pocket of cover. Actual cover design may differ. Pipes are above awning brackets along both sides.

- After installing main tension pipe and straps, tighten winches to stretch and secure cover panel. Allow awning flap with pocket to hang over awning pipe.

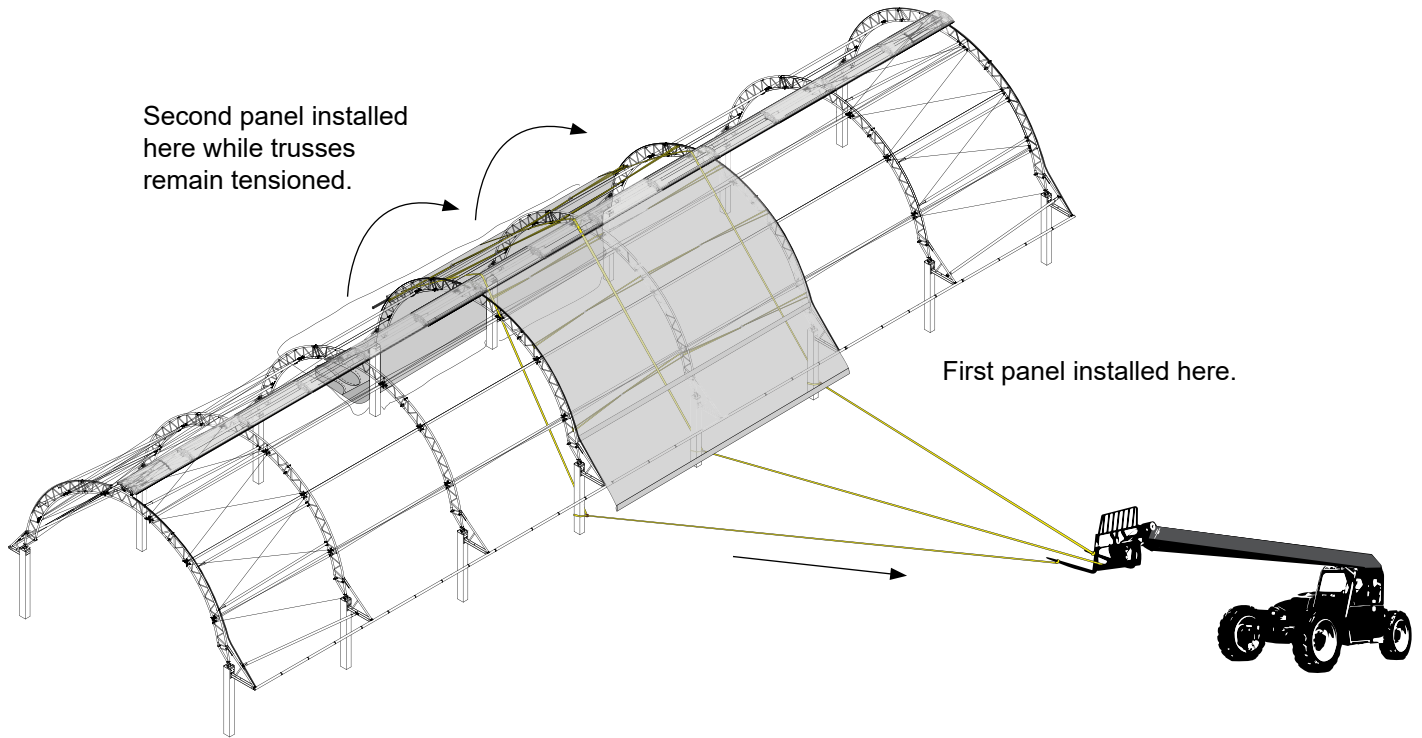
**NOTE:** If winds are strong, use hand clamps or a similar means to clamp loose end of cover panel to awning frame tube to prevent possible damage to panel end. Install and secure awning pipe *after* all panels are installed.

- Continue by installing next panel.

## CLEARSPAN™ TRUSS ARCH BUILDINGS

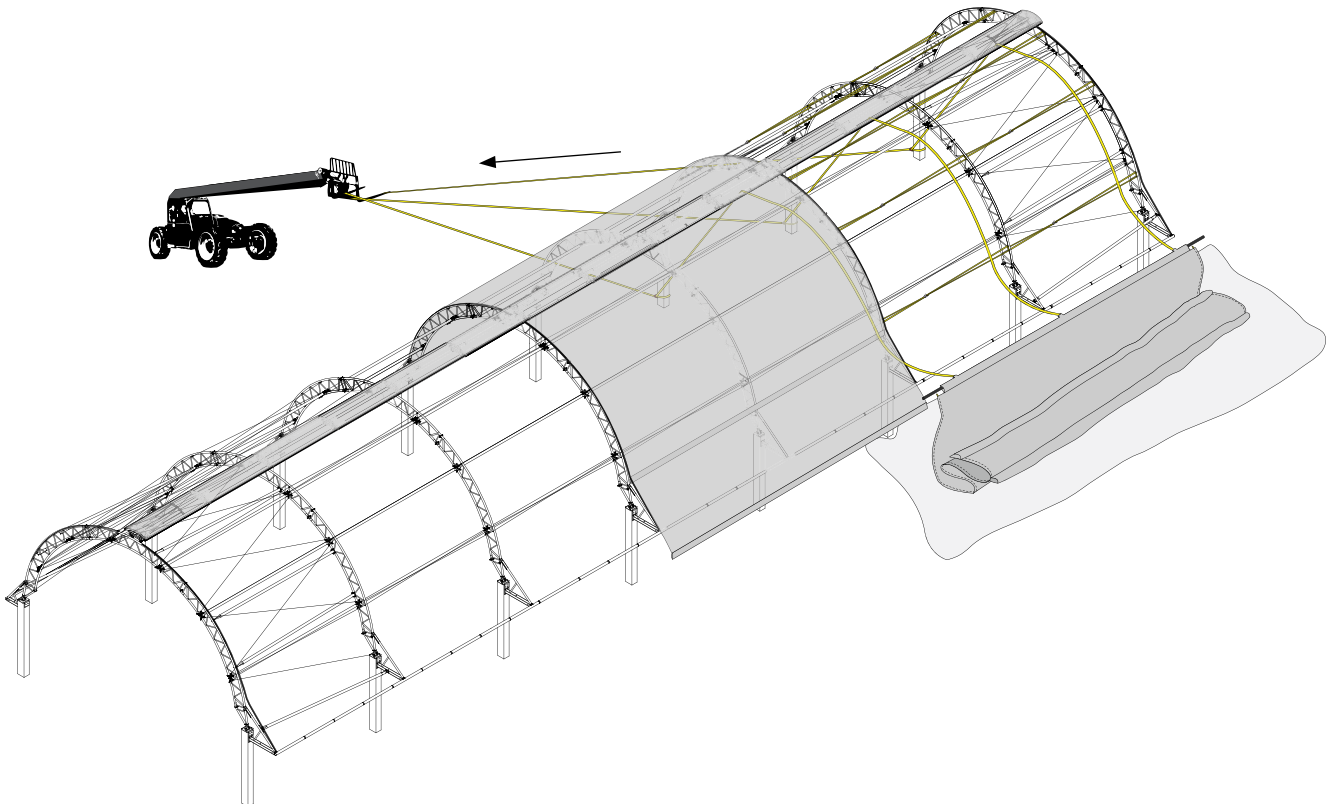
### KEDER-TO-KEDER COVER INSTALLATION — PULL COVER ONTO FRAME (continued)

After securing first cover panel and **before releasing tension** on trusses, install cover panel immediately opposite the first between the same set of tensioned trusses. Complete same sequence of steps to install and secure cover.

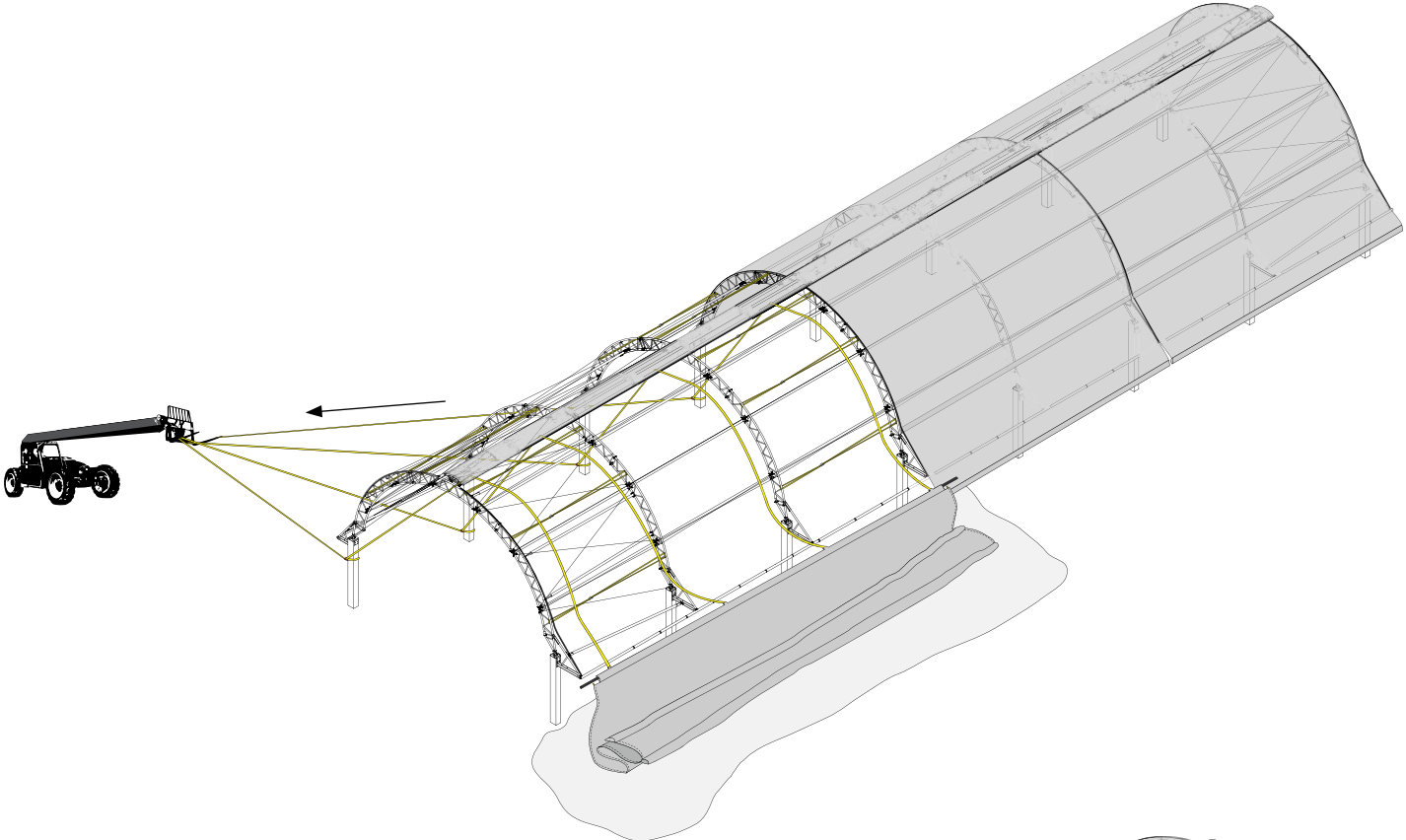


### KEDER-TO-KEDER COVER INSTALLATION — INSTALL ALL REMAINING COVER PANELS

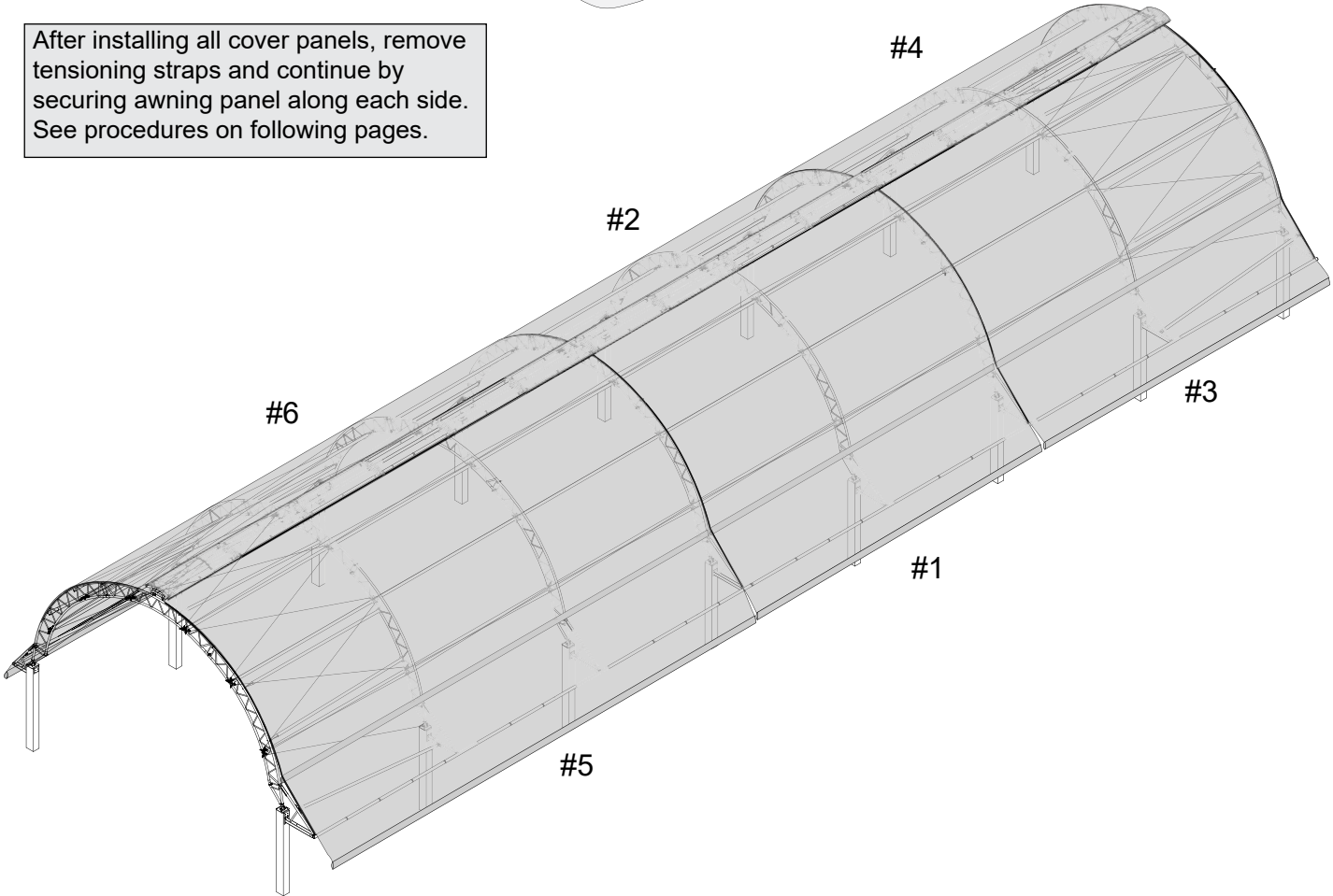
After installing first cover pair, remove straps to release tension on trusses. Return to **page 16** and repeat all procedures to install remaining cover panels. Review panel installation sequence diagrams on next pages for example.



KEDER-TO-KEDER COVER INSTALLATION — INSTALL ALL REMAINING COVER PANELS (continued)



After installing all cover panels, remove tensioning straps and continue by securing awning panel along each side. See procedures on following pages.

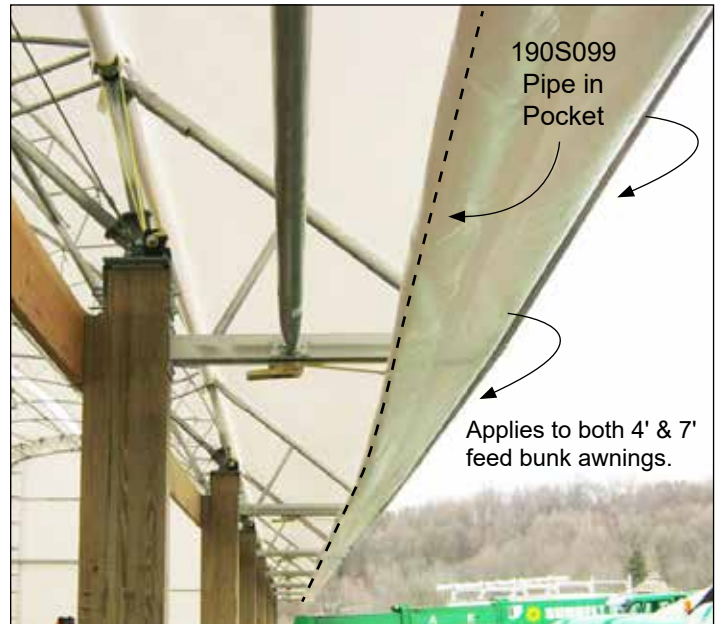
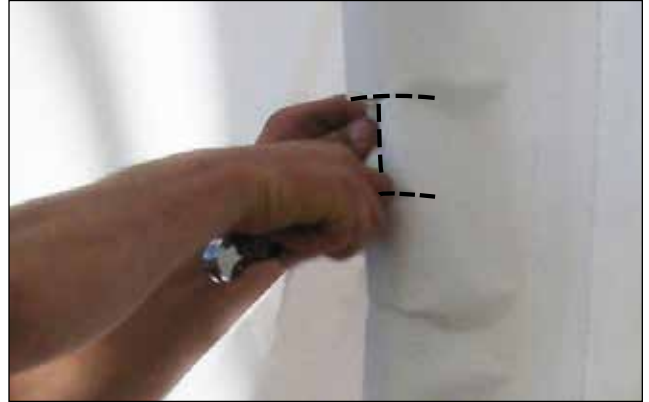


## CLEARSPAN™ TRUSS ARCH BUILDINGS

### INSTALL FEED BUNK AWNING PIPES AND STRAPS AND TIGHTEN — 4' & 7' AWNING

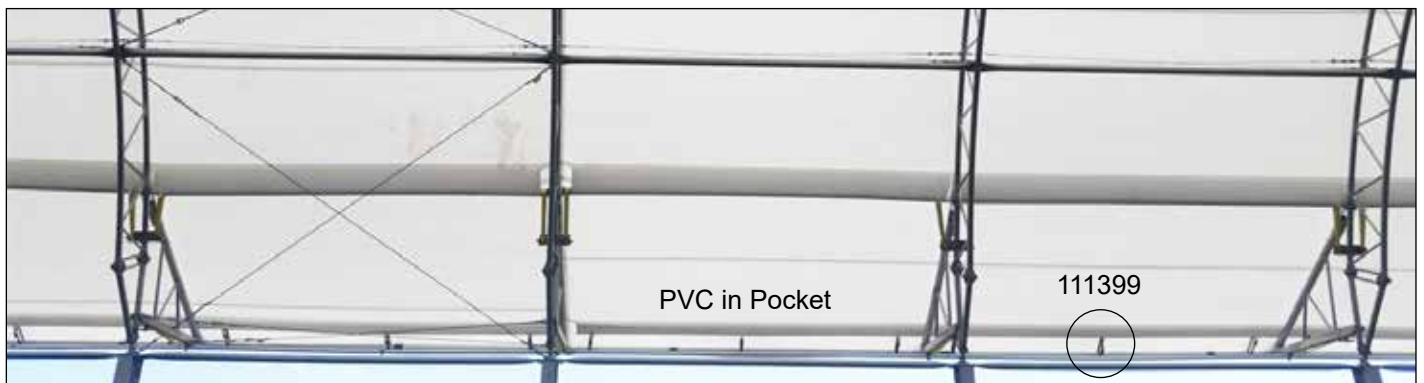
Review photos below and secure feed bunk side awning panel to awning frame. Complete these basic steps:

1. Attach ratchets to underside of awning frame if needed. Review main technical documents and drawings for details.
2. Repeat steps presented earlier to construct and install a 1.90" pipe assembly (190S099) in the awning pocket of all cover panels. Secure all joints using Tek screws and duct tape. Pipe assembly runs from one end to the other. For long buildings, construct and insert pipe in sections.
3. Cut access to 1.90" pipe in pocket as shown to help prevent water accumulation inside pocket.
4. Install straps and connect to ratchets. Secure using 2" yellow strap.
5. Tighten ratchet and straps to stretch cover.
6. Trim pipe length at each end once straps are installed.
7. After tightening all awning straps, continue by terminating the awning cover along opposite side.



### INSTALL FEED BUNK AWNING PIPES, PVC CONDUIT, AND STRAPS AND TIGHTEN — 7' AWNING ONLY

Beef Masters with a 7' awning include covers with three (3) pockets on awning side. Middle pocket is reserved for PVC conduit. Assemble PVC conduit, glue all joints, and slide conduit assembly into pocket. Use the 111399 ratchet/strap assemblies to secure conduit to awning pipe. Use three (3) ratchet/strap assemblies for each frame bay. **After PVC conduit is secure, return to the above information and secure the 1.90" awning pipe.**

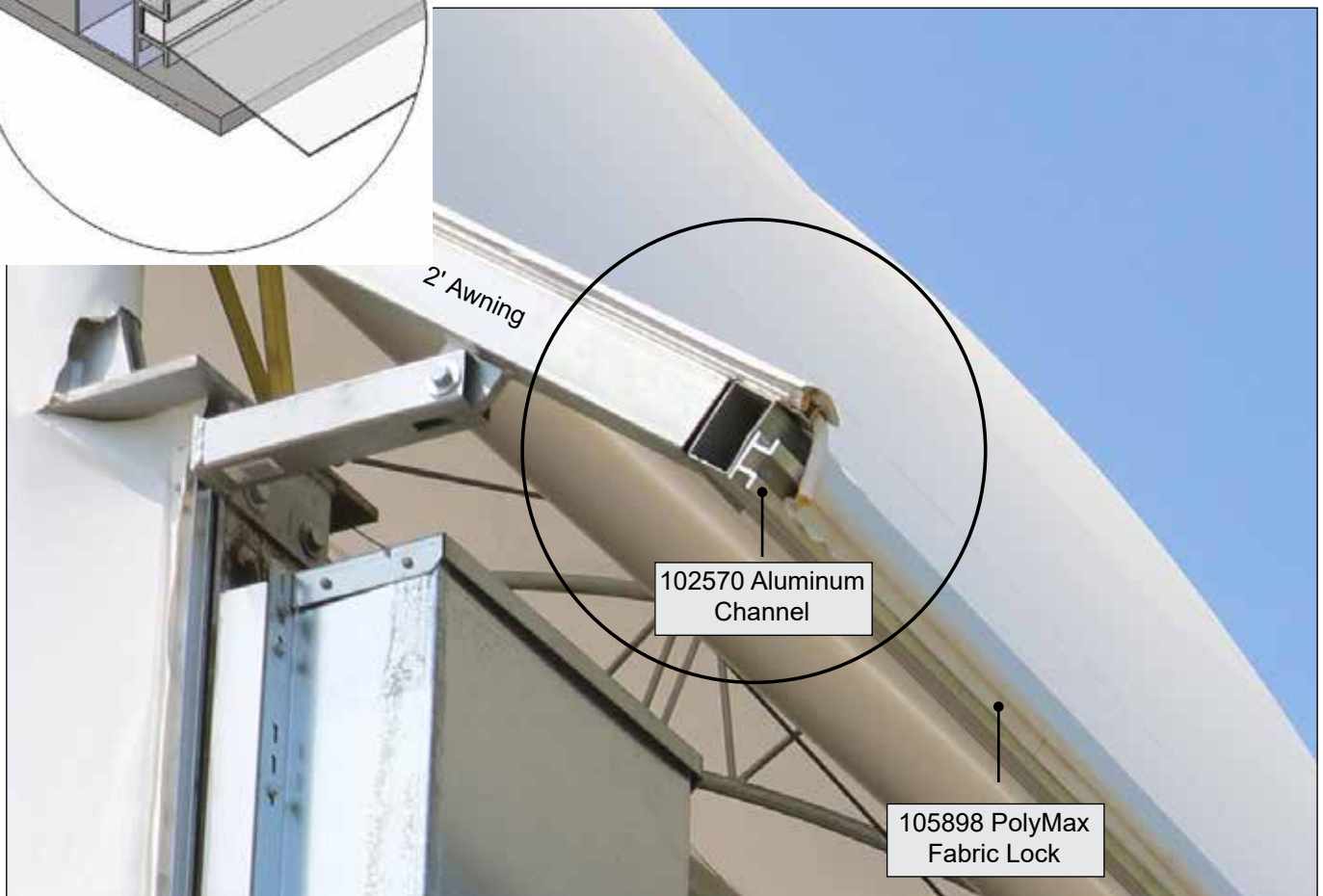
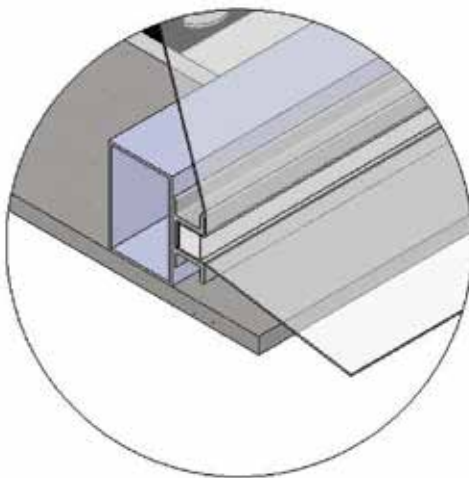
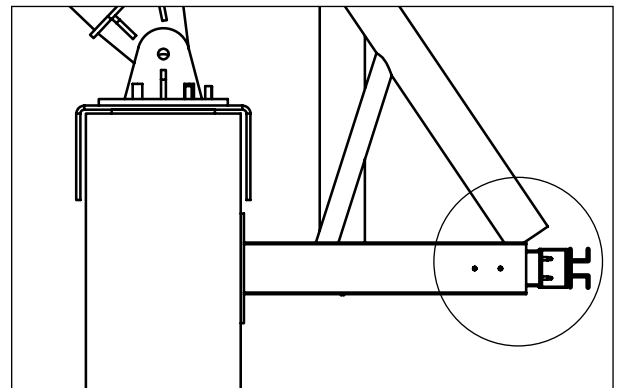
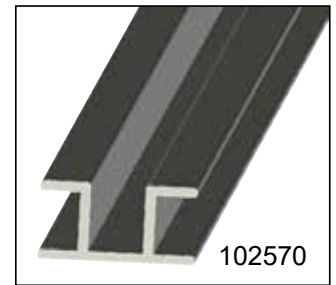




**TERMINATE COVER AT AWNING ABOVE CURTAIN OPENING**

Review photos and drawings below and terminate cover as shown. If 102570 channel has not been installed as shown, review technical drawings sent with building and install according to those details. To install poly-lock pound-in strip, follow these general guidelines:

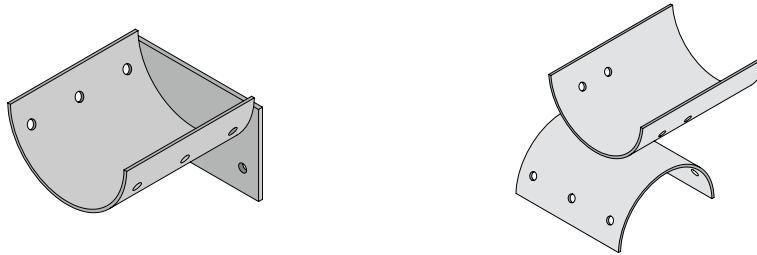
- Begin at middle of awning and work toward each end to best work wrinkles from awning material.
- Have an assistant pull down on awning material to stretch tight while someone pounds poly-lock into 102570 channel.
- *Do not hammer directly on poly-lock strip!* Doing so increases the chances that awning material will be hit and damaged.
- Use a wide-faced chisel with a blunt, wide edge to fully seat poly-lock into channel.
- After entire length of awning cover is terminated, trim excess cover. Allow a few inches to remain beyond pound-in strip in the event cover needs stretched.



# IMPORTANT!

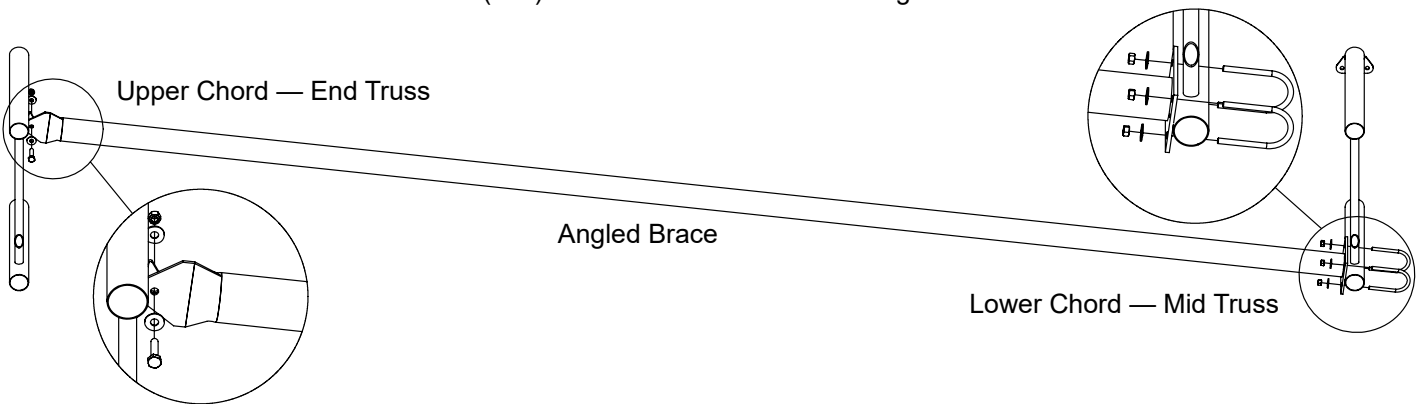
## REATTACH RIDGE VENT MOUNTING BRACKETS

Locate ridge vent frame brackets loosened (or removed) earlier and reattach these to upper chord of trusses where keder rails were installed. **Check all main ridge vent mounting brackets** to ensure all are installed and Tek screws are tight.



## INSTALL ANGLED BRACES AT EACH END OF MAIN BUILDING FRAME

Review main building technical documents and diagrams and install all angled braces. Angled braces run from upper chord of end truss to lower chord of next (mid) truss. Details are found in diagrams.

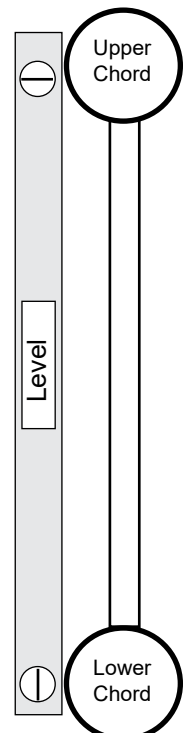


## INSTALL AND TIGHTEN ALL SWAY CABLES OF MAIN BUILDING FRAME

Review the main building technical documents and diagrams and install and tighten all sway cables. Details are found in diagrams.

Tighten all sway cables to pull upper and lower chord of each truss back into plumb.

**ATTENTION:** Truss chords can be pulled out of plumb when tilted to install keder cover. Use a long level or similar means to ensure upper and lower chord of each truss runs parallel with each other. See photo at the right.



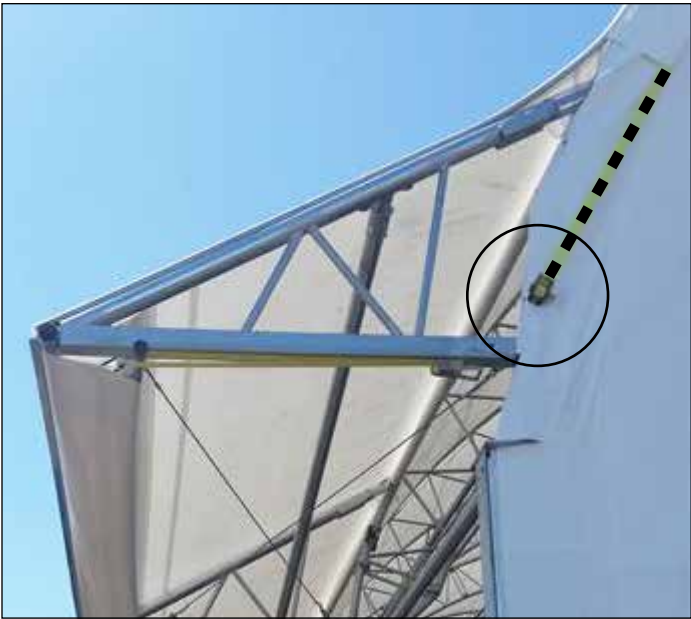


**BONNET PANEL INSTALLATION**

Some Beef Master buildings equipped with ridge vent also include separate bonnet panels that overlap end wall panel if present. Bonnet panels install similar to main cover panels in that they include keder rope along one edge. This rope slides into keder rail attached to top of each end truss. Bonnet panels include a strap used to secure bonnet ends to winches or ratchets attached to building frame.

If building includes individual bonnet panels, install those now. Use the following photos and installed bonnet to position and secure winches to main building.

Once bonnets are installed, insert strap ends into winches and tighten winches. Continue with next procedure.



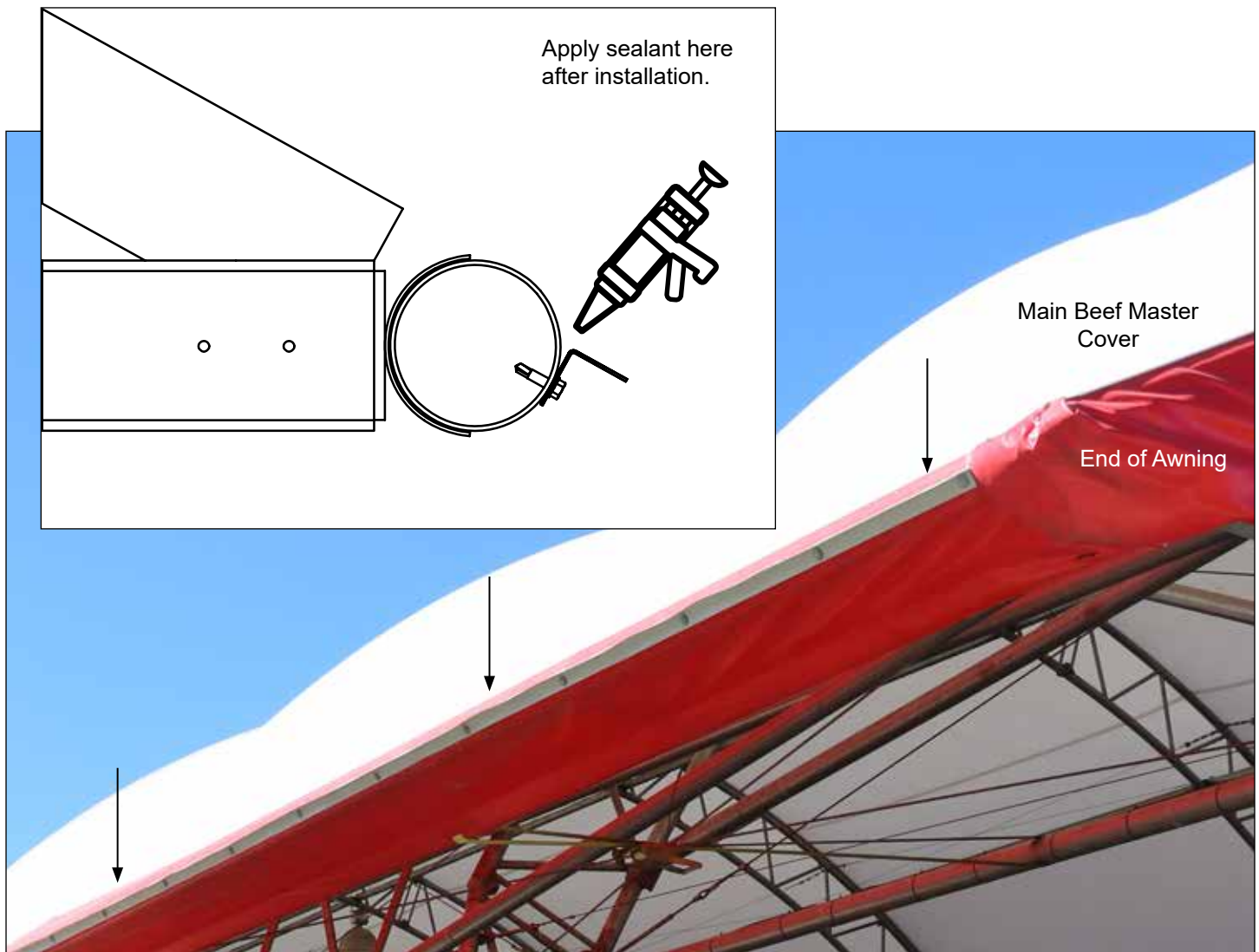
## CLEARSPAN™ TRUSS ARCH BUILDINGS

### ATTACH DRIP EDGE TO FEED BUNK AWNING

Drip edge attaches to round, leading edge pipe of feed bunk awning after cover is installed and stretched. See photo below to install drip edge.

After reviewing photos and drawing details, follow these general steps to install drip edge:

1. Locate the ANG15GA16L120S1 angle and FA4482B Tek screws.
2. With assistance, attach first section to eave pipe using Tek screws spaced every 18" on-center. Review diagram to ensure angle is installed correctly.



3. Install next section of angle and continue adding sections until entire drip edge is installed.
4. Cut last section to length.
5. Return to drip edge and apply a bead of silicone (DE4007) sealant along top edge where angle meets cover material.

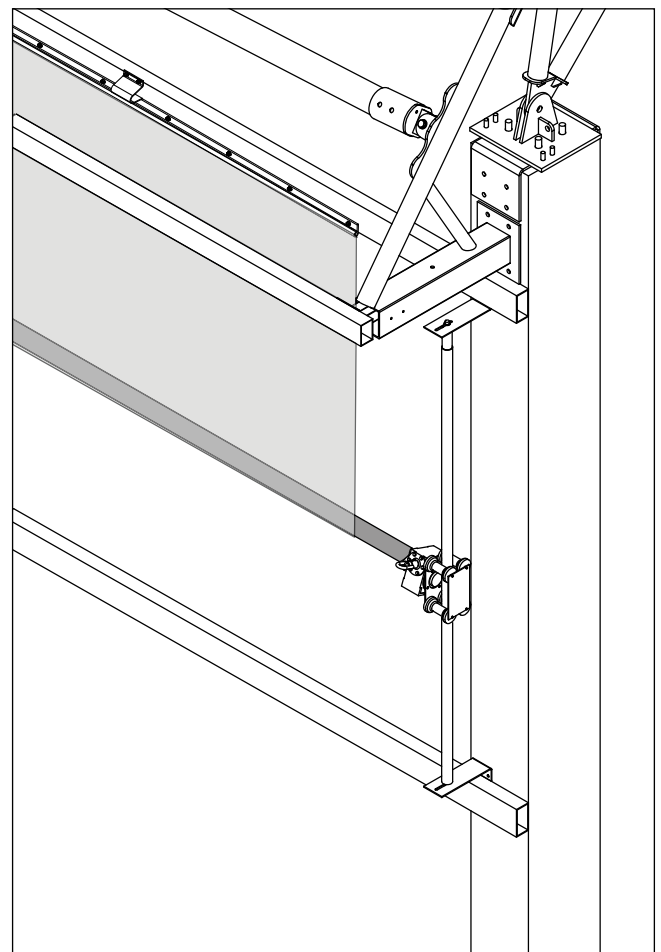
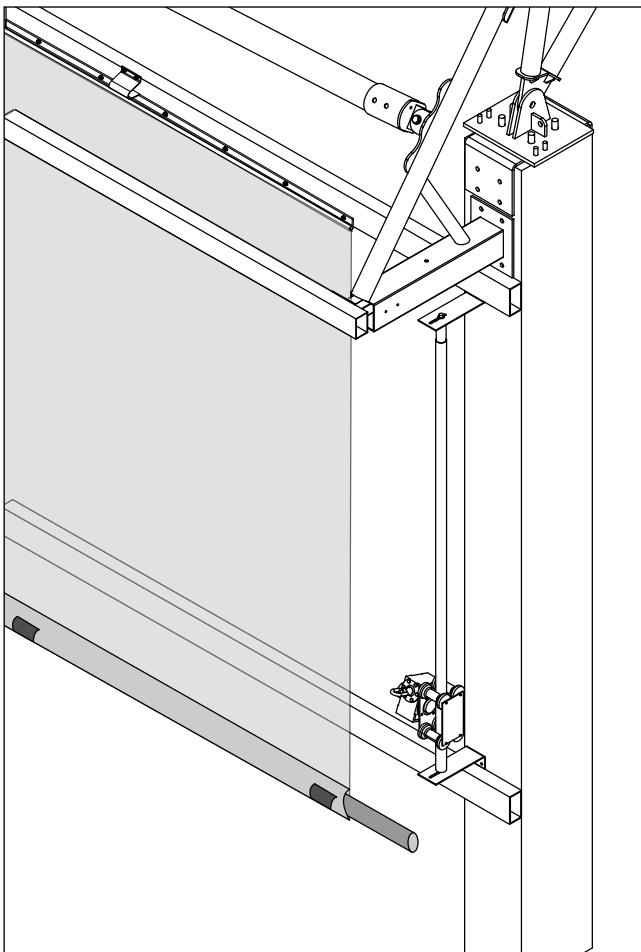
**INSTALL ROLL-UP CURTAIN, WINCHES, & ANTI-BILLOW STRAPS — Example shows a single, end mount panel.**

Review diagrams that follow to complete installation of roll-up curtain. At this point, all framing (upper/lower frame 2" x 4" tubes) should be attached to support posts according to main technical diagrams sent with building. If needed, install that framing now before proceeding. **Gearbox mounted at end of wall is shown. See note below.**

**NOTE:** Consult technical diagrams sent with building to assemble and attach curtain roll-up components mounted at or near center of sidewall opening. Disregard this section if roll-up curtain is fully assembled. Continue by attaching drive and tail door panels if equipped.

Complete these steps to install roll-up panel and anti-billow straps:

1. Locate the 1.66" pipe (166S099) for curtain roll-up conduit and assemble conduit. If curtain is long, assemble conduit in sections 24' or so for easier handling. Secure all pipe splices with a Tek screw and wrap with duct tape to protect panel pocket. Set pipe assemblies at end opposite gearbox, or on each side of a center mount gearbox.
2. Take curtain panel and carefully slide keder rope into keder rail attached to upper 2" x 4" frame tube. Start at the end opposite the gearbox to prevent catching panel on gearbox and insert brackets.



**ATTENTION:** If roll-up side curtain includes an upper and lower panel, consult the curtain instruction guide for important details before continuing with this procedure.

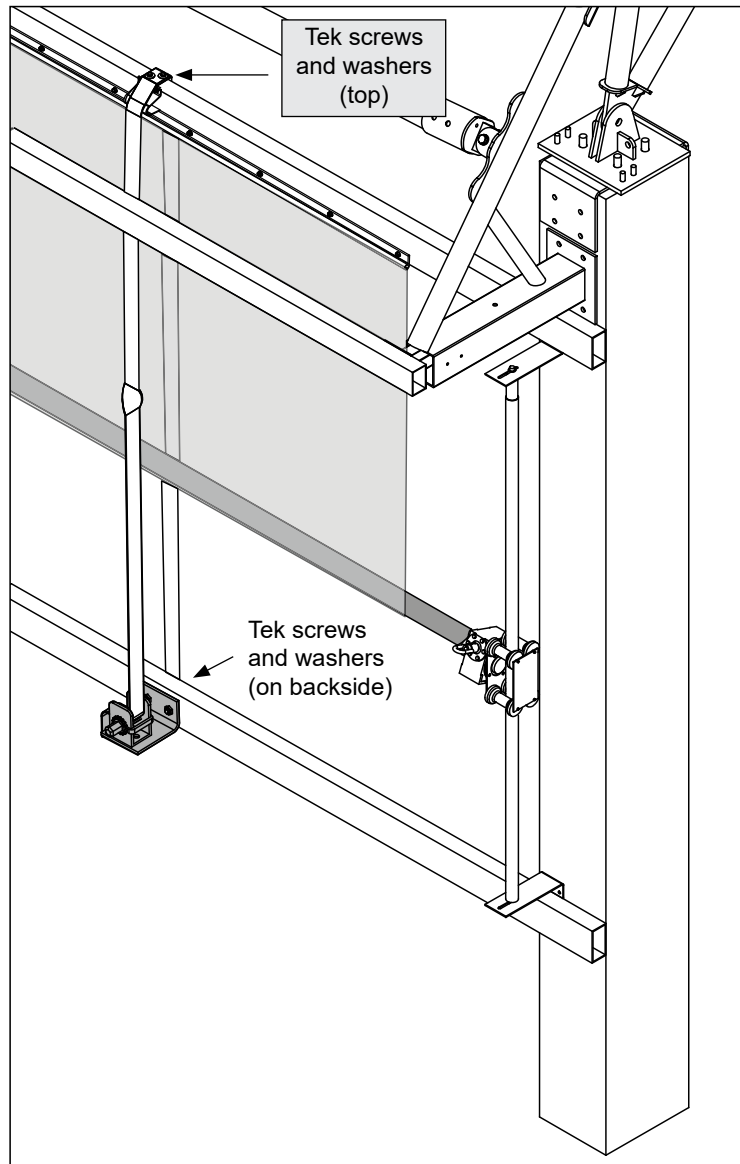
3. With panel hanging from keder rail, insert prepared roll-up conduit into panel pocket. Allow conduit to extend beyond pocket at gearbox end. Conduit is attached to gearbox later in this procedure.
4. Take CC6213 fabric clips and secure these to conduit in panel pocket using FA4482B Tek screws. **Space clips every 2' on-center throughout conduit length.**
5. Check conduit length at gearbox end (trim if needed).
6. With assistance, roll panel around conduit until end aligns with gearbox output shaft and connect conduit to shaft.

## CLEARSPAN™ TRUSS ARCH BUILDINGS

### INSTALL ROLL-UP CURTAIN, WINCHES, & ANTI-BILLOW STRAPS — continued

7. Use gearbox to fully open sidewall by rolling curtain to top.
8. Install winch brackets according to technical drawings included with building. Winches align with anti-billow strap brackets attached to upper 2" x 4" frame tube installed earlier.
9. Attach winches to winch brackets.
10. Install white 2" wide anti-billow straps. Secure straps to backside of lower 2" x 4" using 102921 washers and FA4482B Tek screws. Run strap up to backside of upper 2" x 4" frame tube and down to winch. See details in technical document included with building.
11. With all anti-billow straps installed, test operation of roll-up curtain.

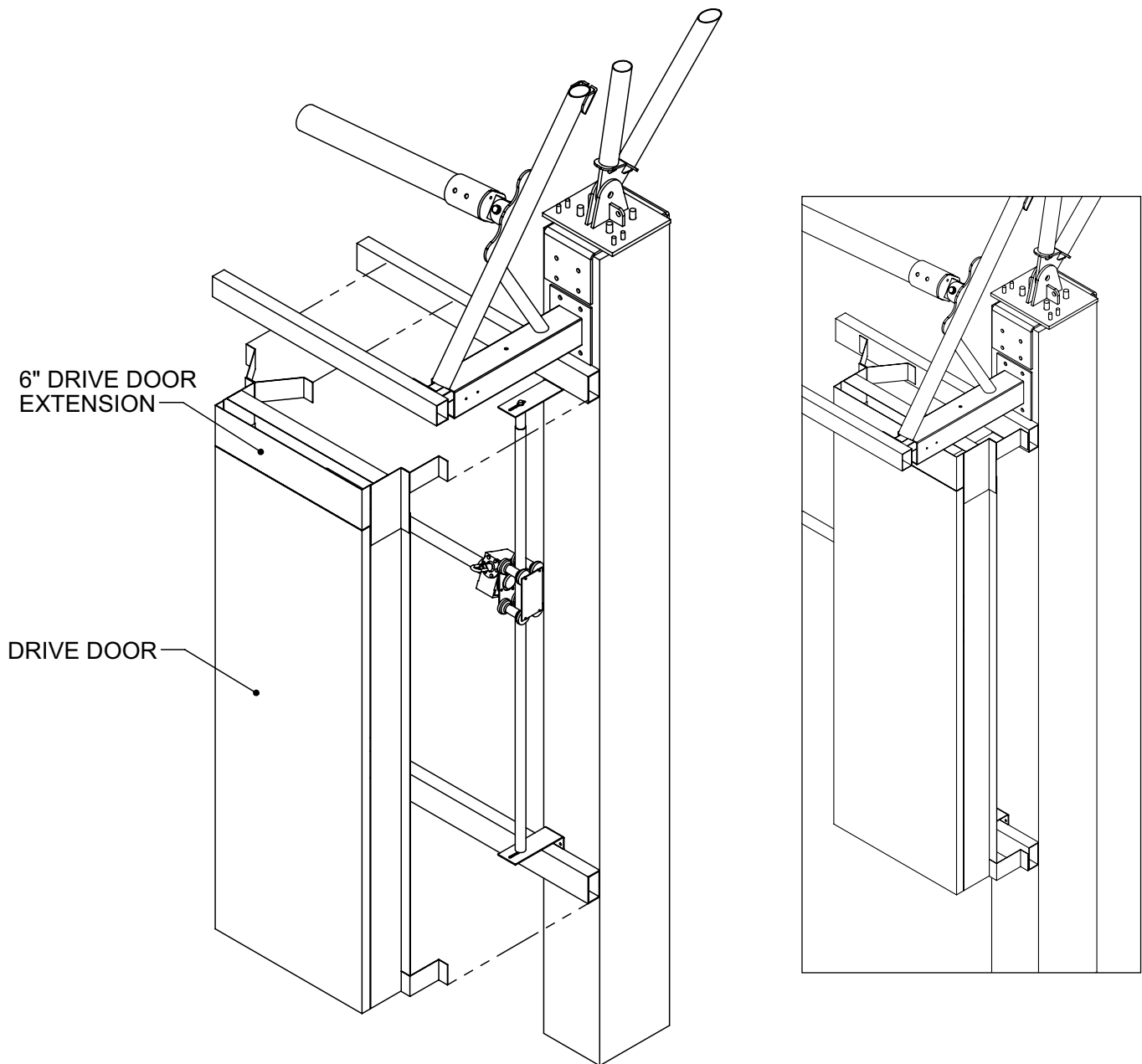
Use white 2" straps for anti-billow straps.



12. Adjust curtain as needed and install curtain drive and tail doors if equipped. See technical drawings for building and the overview diagrams on next two pages.

**INSTALL ROLL-UP CURTAIN DRIVE DOORS AND CURTAIN TAIL DOORS WHEN EQUIPPED**

**ATTENTION:** See main technical drawings for component and installation details.



**ATTENTION:** Components for the side curtain also include polycarbonate panels, 2" x 2" square tubing, and 104624 square tube fittings. These items are used to finish the area at the back side of all drive doors. Use the square tubing and 104624 fittings to construct a frame to attach field-cut polycarbonate panels.

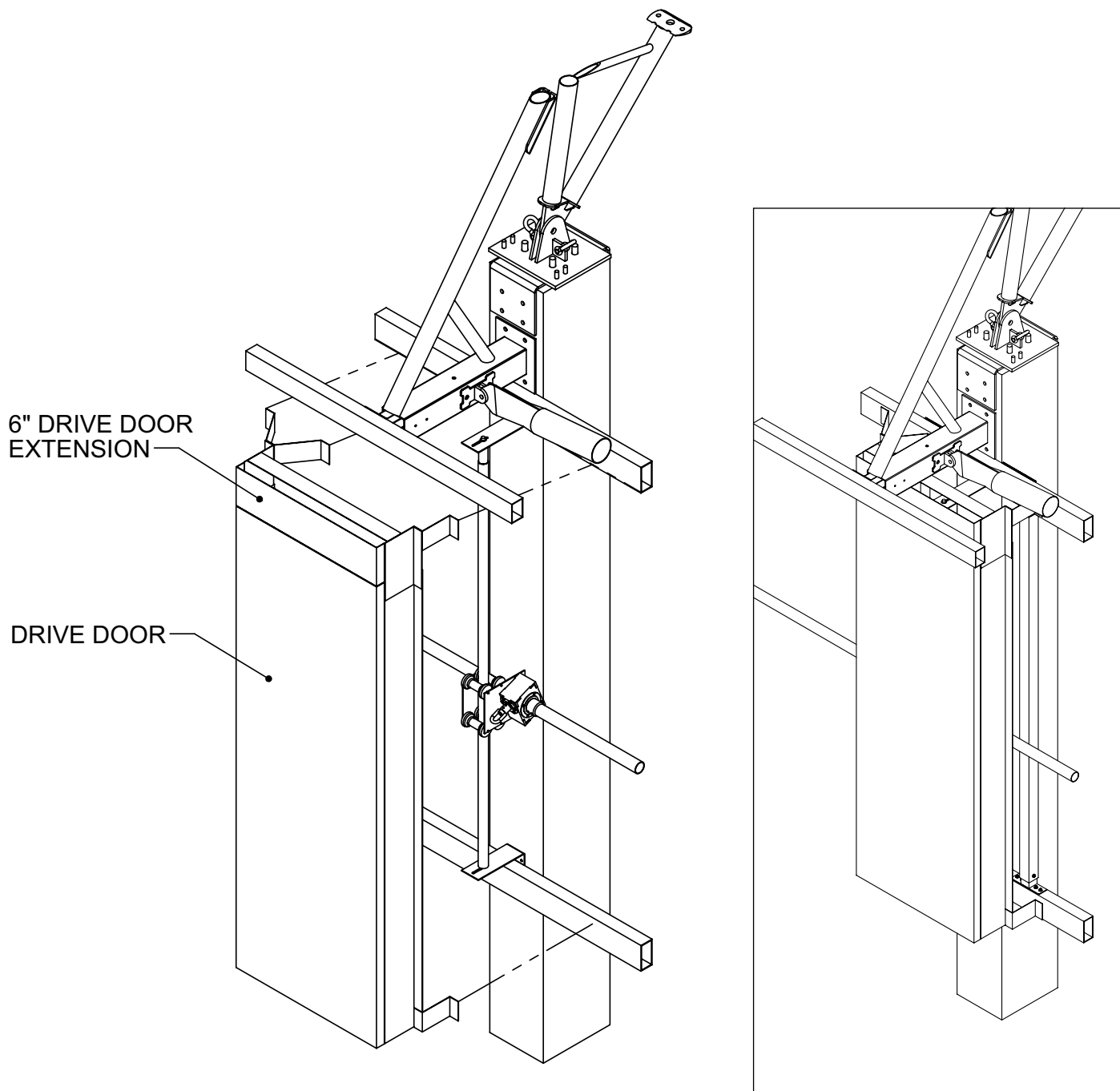
Consult the technical drawings for the roll-up curtain panel for construction and fastener details.

**DRIVE DOOR — END MOUNT**

## CLEARSPAN™ TRUSS ARCH BUILDINGS

### INSTALL ROLL-UP CURTAIN DRIVE DOORS AND CURTAIN TAIL DOORS WHEN EQUIPPED — continued

**ATTENTION:** See main technical drawings for component and installation details.



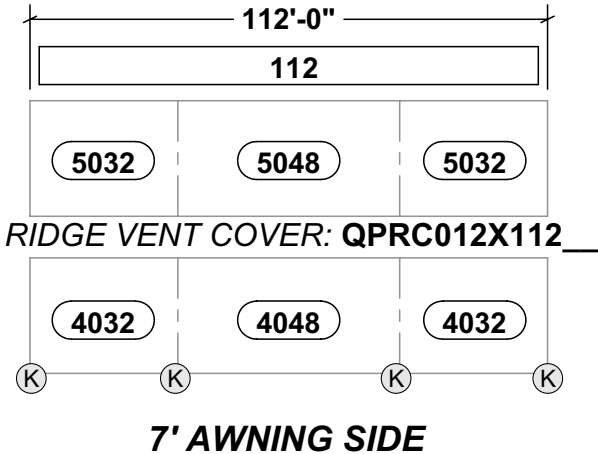
**ATTENTION:** Components for the side curtain also include polycarbonate panels, 2" x 2" square tubing, and 104624 square tube fittings. These items are used to finish the area at the back side of all drive doors. Use the square tubing and 104624 fittings to construct a frame to attach field-cut polycarbonate panels.

Consult the technical drawings for the roll-up curtain panel for construction and fastener details.

### DRIVE DOOR — CENTER MOUNT



**FABRIC PANEL LOCATIONS FOR 50' WIDE (T050BMPL) BEEF MASTER BUILDINGS — TOP VIEWS**



**COVER PANELS**

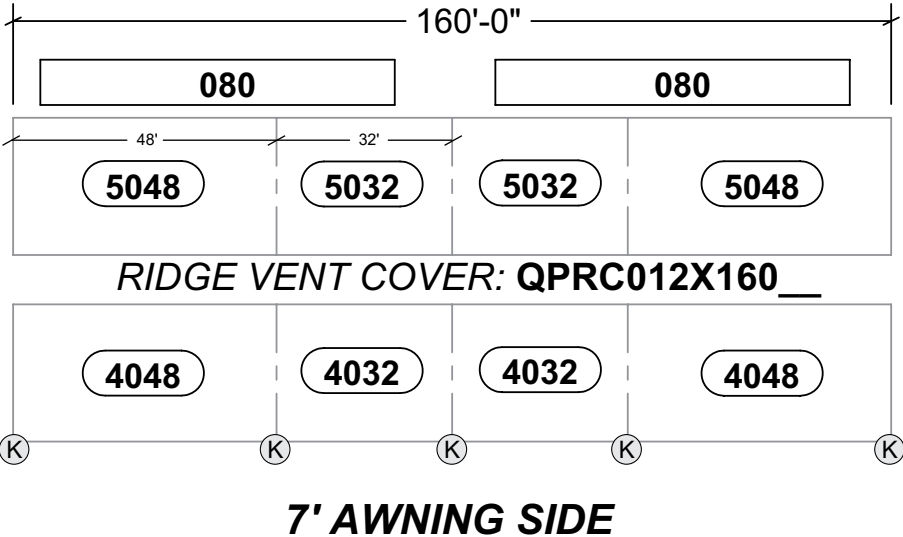
- (4032) - QCB050RDA4032\_N
- (4048) - QCB050RDA4048\_N
- (5032) - QCB050RDA5032\_N
- (5048) - QCB050RDA5048\_N

**ROLL-UP SIDES** (UNDER 2' AWNING) UPPER & LOWER PANELS

- (064) - QRU090X064TOP\_\_ & QRU090X064BTM\_\_
- (080) - QRU090X080TOP\_\_ & QRU090X080BTM\_\_
- (096) - QRU090X096TOP\_\_ & QRU090X096BTM\_\_
- (112) - QRU090X112TOP\_\_ & QRU090X112BTM\_\_

**KEDER ADD-ON BONNET PANELS**

- QBNNT016X072\_\_

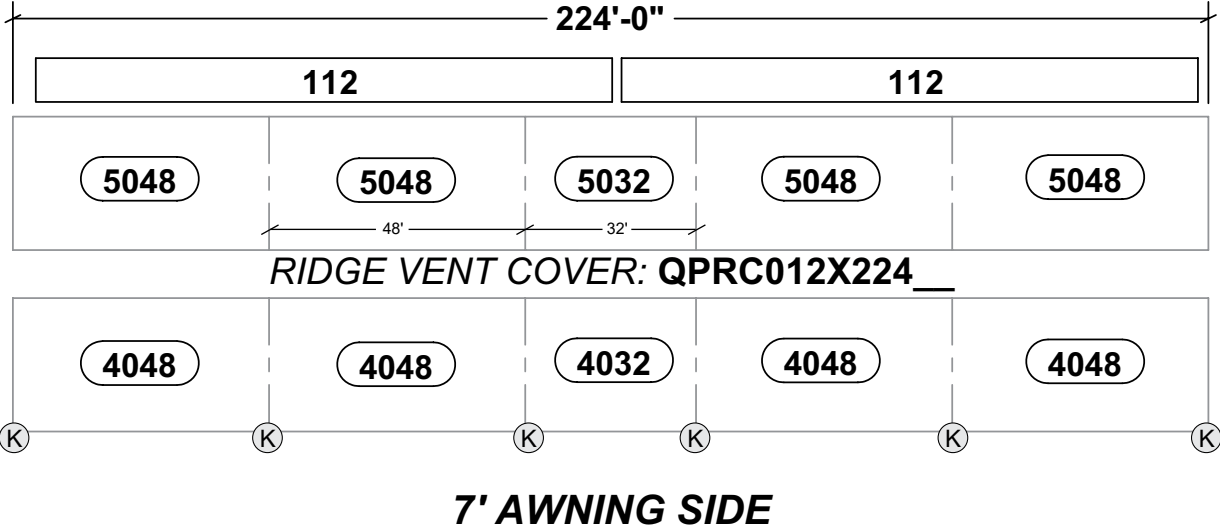


**ATTENTION:** The panel numbers above are found on the panel and bill of materials list.

Letter (K) identifies where to install keder rail to secure each end of cover panel.

**EXAMPLE:** (5048)

Cover panel ending with the numbers 48 is 48' long and will span three (3) 16' truss bays.



# CLEARSPAN™ TRUSS ARCH BUILDINGS

## FABRIC PANEL LOCATIONS FOR 50' WIDE (T050BMPL) BEEF MASTER BUILDINGS — TOP VIEWS (continued)

### COVER PANELS

- **4032** - QCB050RDA4032\_N
- **4048** - QCB050RDA4048\_N
- **5032** - QCB050RDA5032\_N
- **5048** - QCB050RDA5048\_N

### ROLL-UP SIDES (UNDER 2' AWNING) UPPER & LOWER PANELS

- **064** - QRU090X064TOP\_\_ & QRU090X064BTM\_\_
- **080** - QRU090X080TOP\_\_ & QRU090X080BTM\_\_
- **096** - QRU090X096TOP\_\_ & QRU090X096BTM\_\_
- **112** - QRU090X112TOP\_\_ & QRU090X112BTM\_\_

### KEDER ADD-ON BONNET PANELS

- QBNNT016X072\_\_

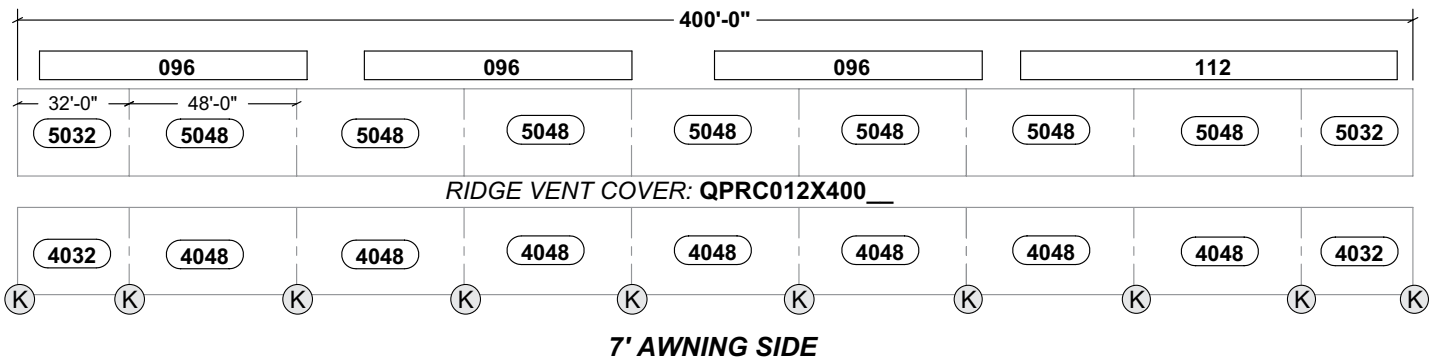
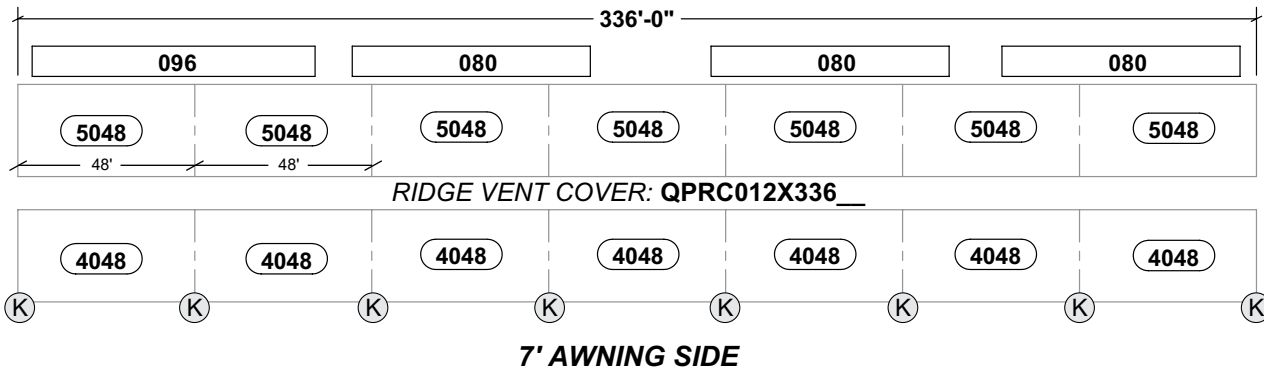
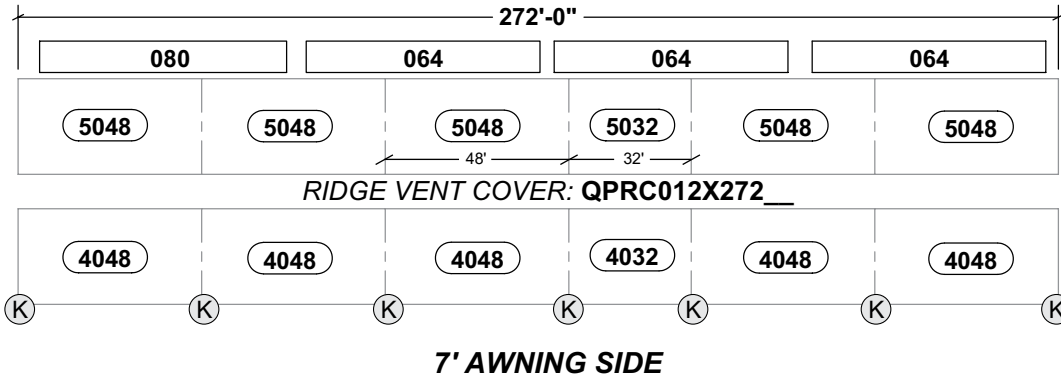
**ATTENTION:** Panel numbers are found on panel and bill of materials list.

Letter **(K)** identifies where to install keder rail to secure each end of cover panel.

### FABRIC NOTES:

- ALL MATERIAL WILL BE 12oz POLY.
- COLOR CODE IS TBD PER EACH ORDER

WN = WHITE (NON-FR)  
 GN = GRAY (NON-FR)  
 TN = TAN (NON-FR)  
 NN = GREEN (NON-FR)



**PANEL LOCATIONS FOR 35', 45', 54' & 65' WIDE (BM2HD) BEEF MASTER BUILDINGS — TOP VIEWS**

**COVER PANELS**

- **6040** QCB0\_RDA6040\_N
- **6060** QCB0\_RDA6060\_N

**EXAMPLE:** **6040**

Cover panel ending with the number 40 is 40' long and will span two (2) 20' truss bays.

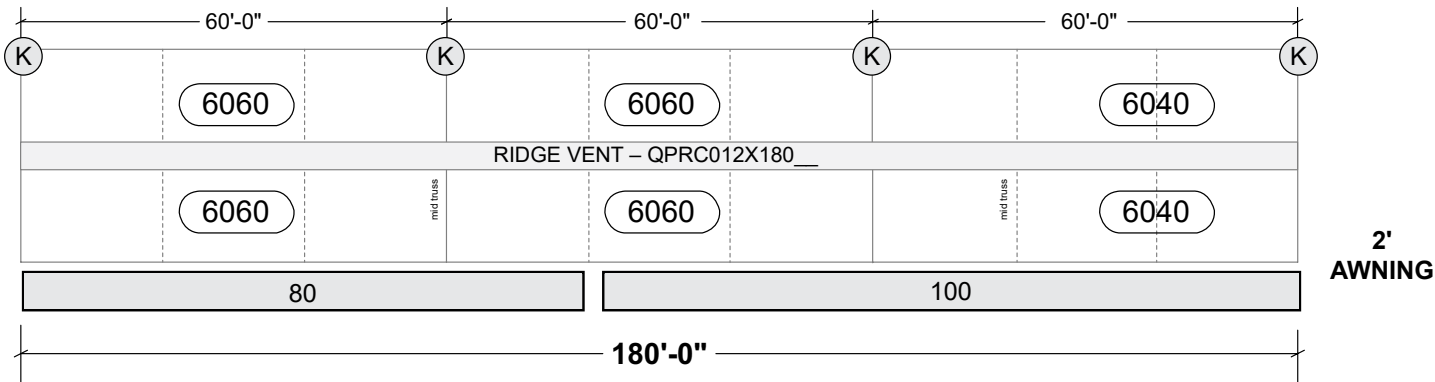
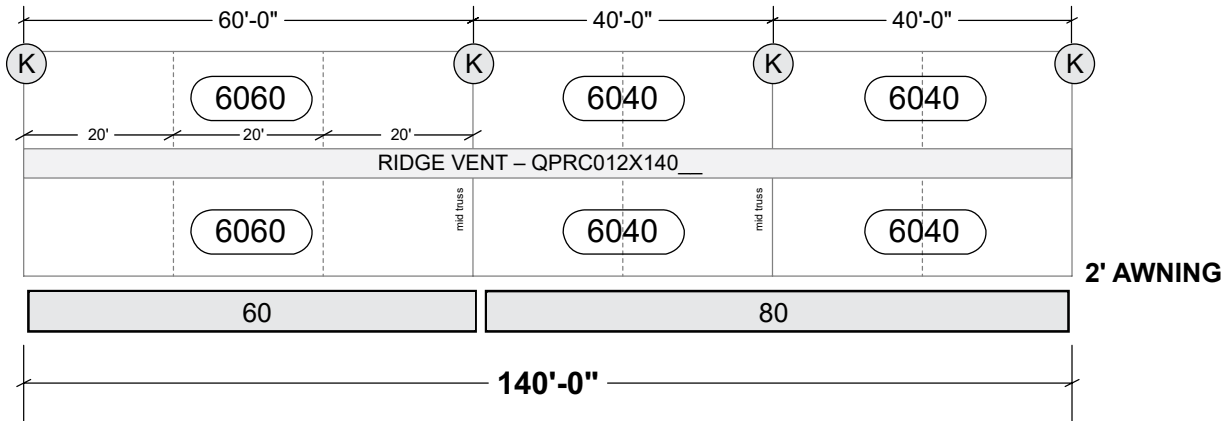
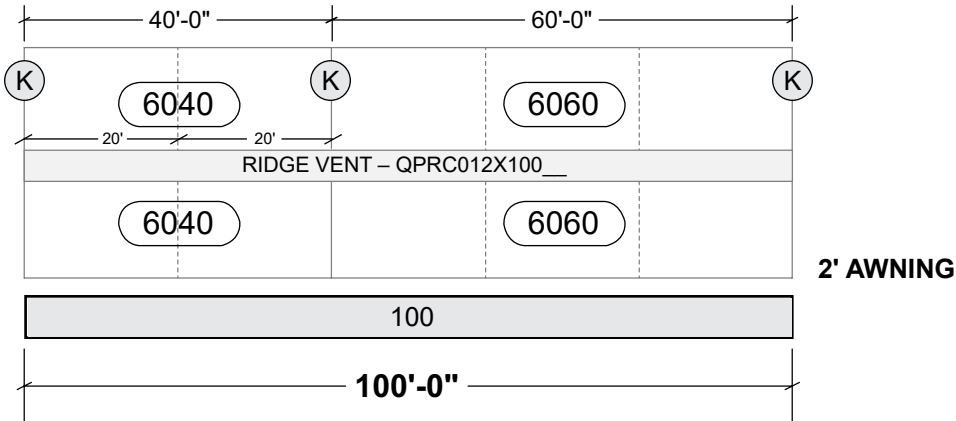
For 35' wide building: **QCB035RDA6040\_N**

**ROLL-UP SIDE PANELS (under 2' awning)**

- **060** QRU05S007L060WN
- **080** QRU05S007L080WN
- **100** QRU05S007L100WN
- **120** QRU05S007L120WN

**KEDER ADD-ON BONNET PANELS**

- **QBNNT016X\_\_\_N**



# CLEARSPAN™ TRUSS ARCH BUILDINGS

## PANEL LOCATIONS FOR 35', 45', 54' & 65' WIDE (BM2HD) BEEF MASTER BUILDINGS — TOP VIEWS (continued)

### COVER PANELS

- **6040** QCB0\_RDA6040\_N
- **6060** QCB0\_RDA6060\_N

EXAMPLE: **6040**

Cover panel ending with the number 40 is 40' long and will span two (2) 20' truss bays.

For 35' wide building: **QCB035RDA6040\_N**

### ROLL-UP SIDE PANELS (under 2' awning)

- **060** QRU05S007L060WN
- **080** QRU05S007L080WN
- **100** QRU05S007L100WN
- **120** QRU05S007L120WN

### KEDER ADD-ON BONNET PANELS

- **QBNNT016X\_\_\_N**

