



**COVER**

YOUR PERGOLA

# Apollo System

## Installation Instructions

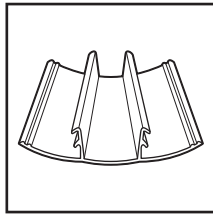
# MATERIALS NEEDED FOR INSTALLATION

## Pro-Tip

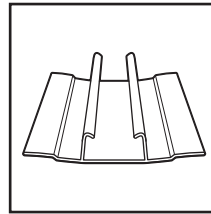
- The film masking could bake into the sheets if left too long in sunlight.
- Cover the open flutes from rain, sprinklers, and dust.
- Protect sheets on site from damage and dents.
- Base is near flat on the bottom, and cap has a slight curvature and gasket edges



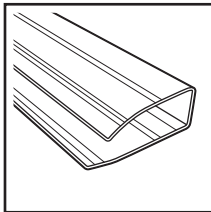
Scan Code  
for Installation  
Video



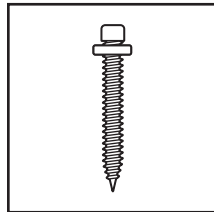
Cap  
Connector



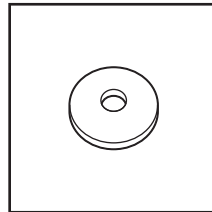
Base  
Connector



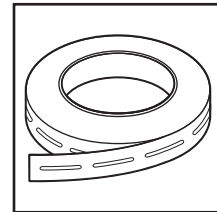
U-Profile



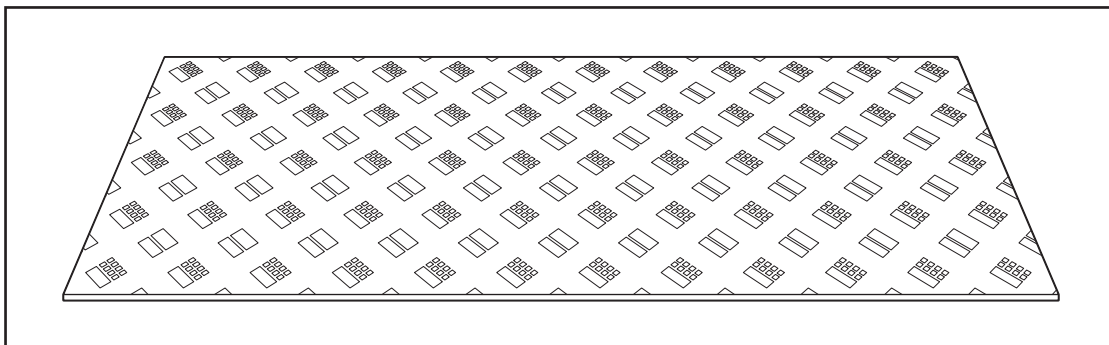
Wood Screw



1½" Washer



Vent Tape



Sheet

# TOOLS NEEDED FOR INSTALLATION

## To cut the Length and Width of the sheets:

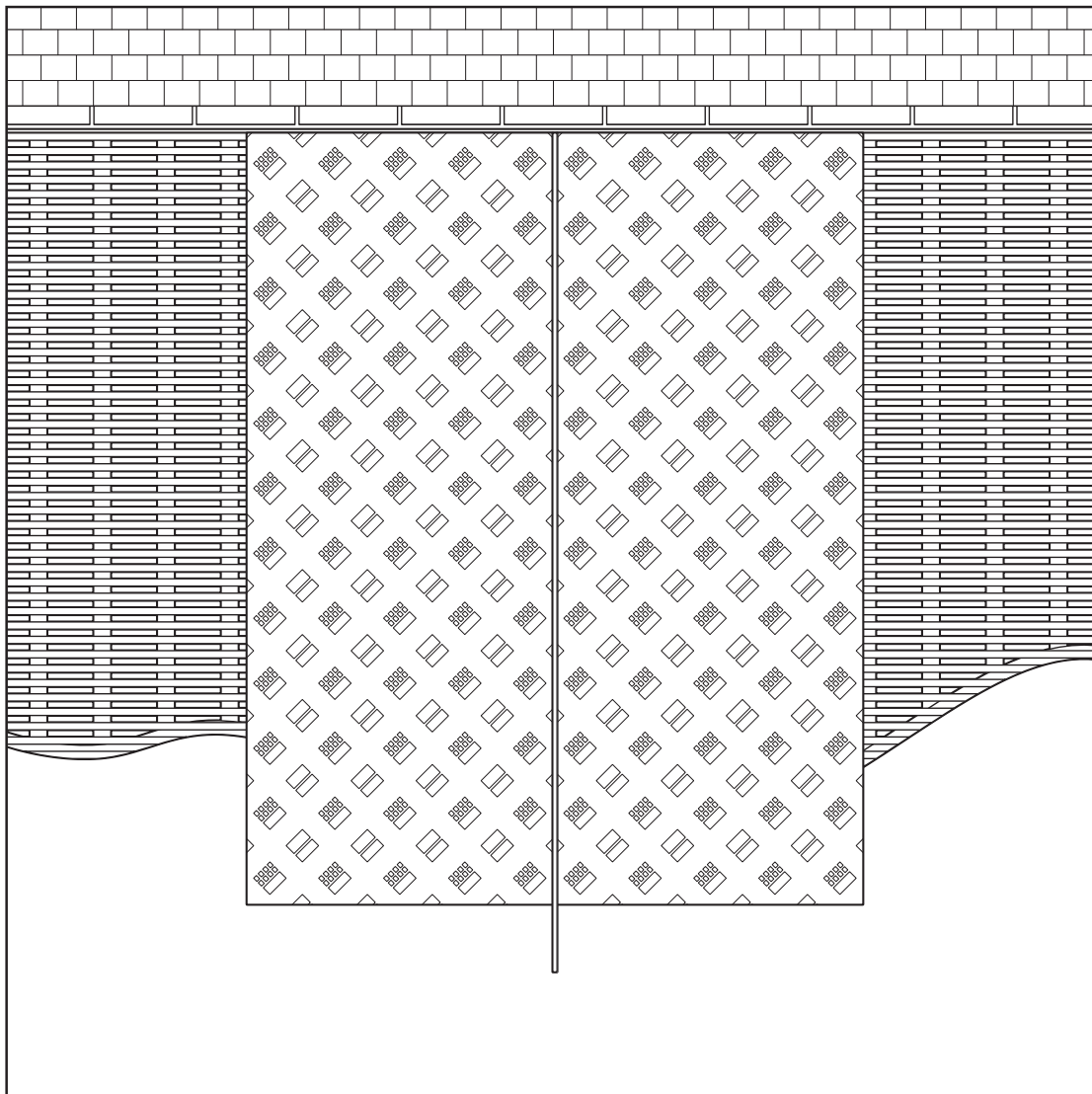
- CIRCULAR SAW -or- TABLE SAW -or- COMMERCIAL JIGSAW
- Carbide Bit Fine Tooth Panel Blade (8-12 teeth per inch)

## Additional Tools Needed:

1. Electric Drill (1/4" drill bit)
2. Rubber Mallet
3. Tape Measure
4. Plastic safe silicone: We recommend GE Silicone
5. 1/2" long wood screws (Optional - see step #12)

## Pro-Tip

Wait until after the sheets are installed to cut to the correct length. This ensures an even edge even if your pergola is curved or not perfectly square.



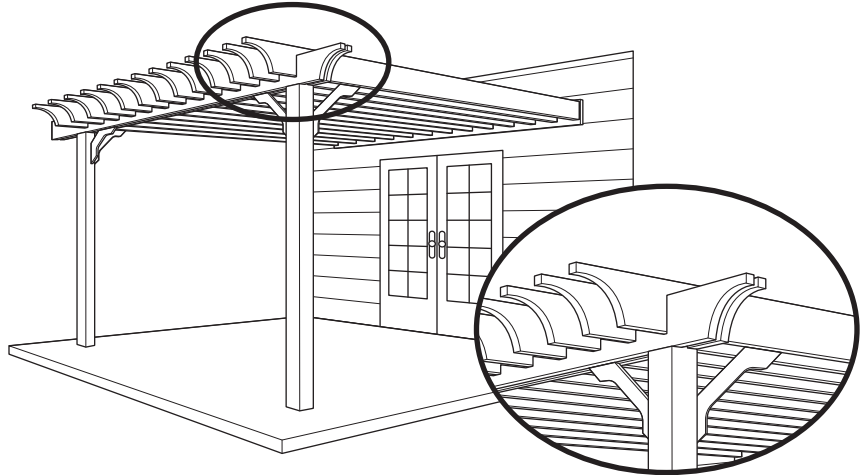
# STRUCTURE REQUIREMENTS

We recommend at least 1" of slope for every 24". However, the more slope on your structure, the better the Apollo System will perform. Increased slope reduces leakage and condensation build-up within the flutes. For a leak-proof system, please look into our Hercules System.



## Joists (Rafters)

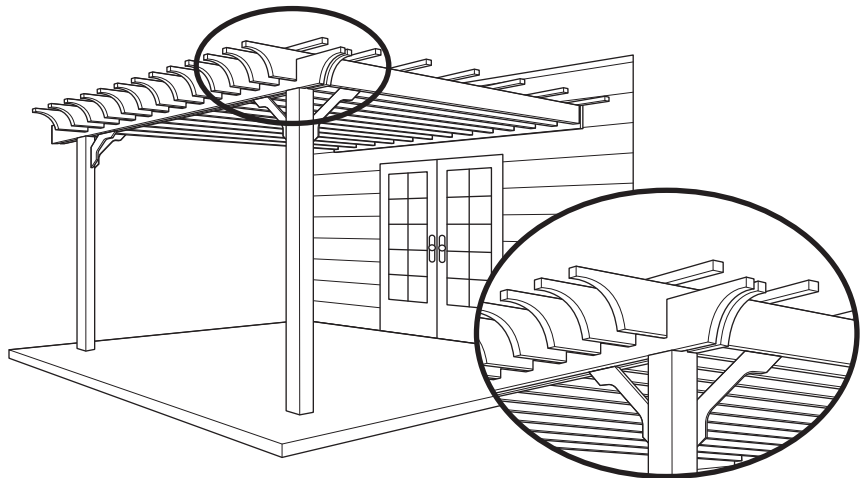
Maximum distance between joists should be 24" or less.



## Stripping (Purlins)

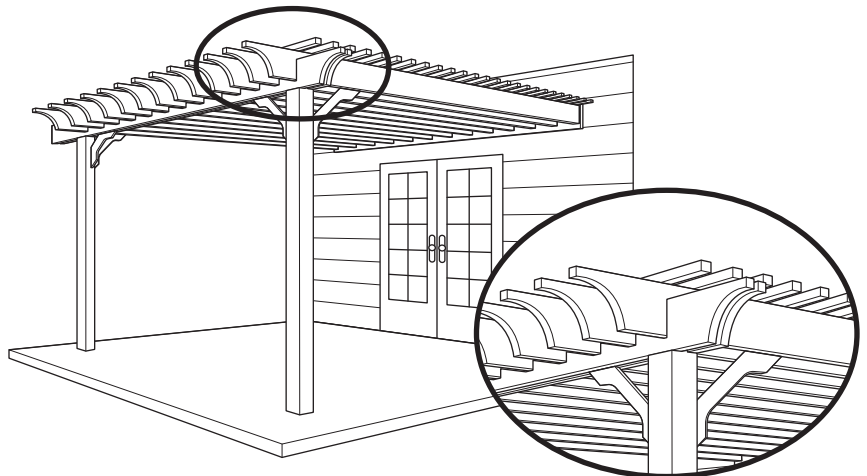
Stripping over 16" will allow for sag in the sheets that will lead to leakage and water pooling.

You will have to modify the structure by adding additional stripping to achieve 16" or less between stripping.



## Shade Slats

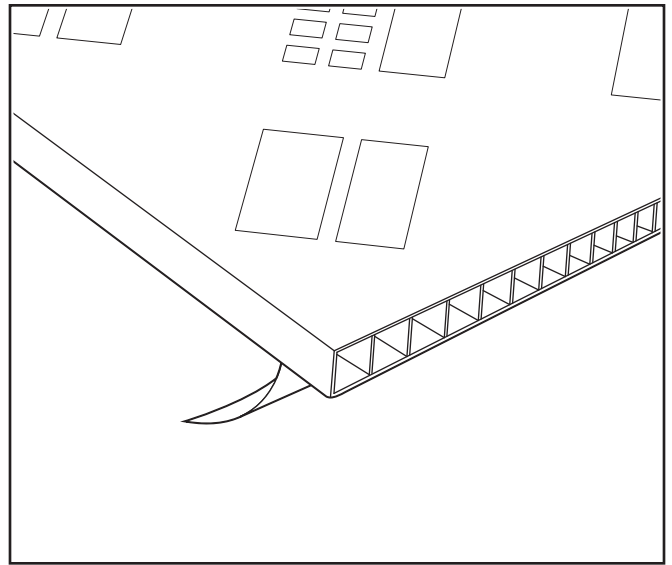
Shade slats are usually 2 - 6" apart with a maximum distance of 16.



**FOLLOW ALL STANDARD SAFETY PROCEDURES!**

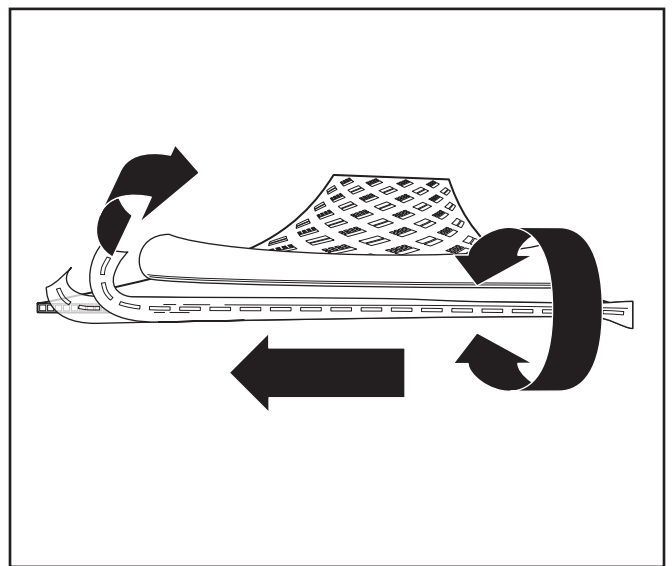
## 1. Remove the Protective Film from the Bottom Side of Sheet

Wait to remove the protective film with logo until after install. The logo film side denotes the UV protected layer, and it will ensure you do not install the sheets upside down.



## 2. Apply Vent Tape Over Flutes

Apply vent tape to the end of the sheets that will be at the higher elevation. Center the white rectangular vents on the edge of the sheet, and then, smooth the edges of the tape on the top and bottom of the sheet. You will apply the tape to the other end after the sheet is installed and cut to size.



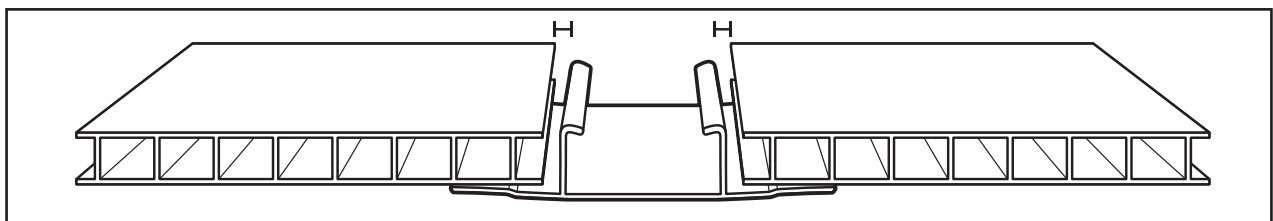
## 3. Measure and Install Base Connector

Working from left to right, plan the distance between each base by using your sheets to space out the appropriate distance. **DO NOT attach them yet. DO NOT install base connector on the outside edges of structure (left or right).**

Do not install the base connectors exactly 48" or 72" (depending on sheet width) apart. Remember to leave a 3/16" to 1/4" gap on each side of the sheet to allow for expansion (see below).

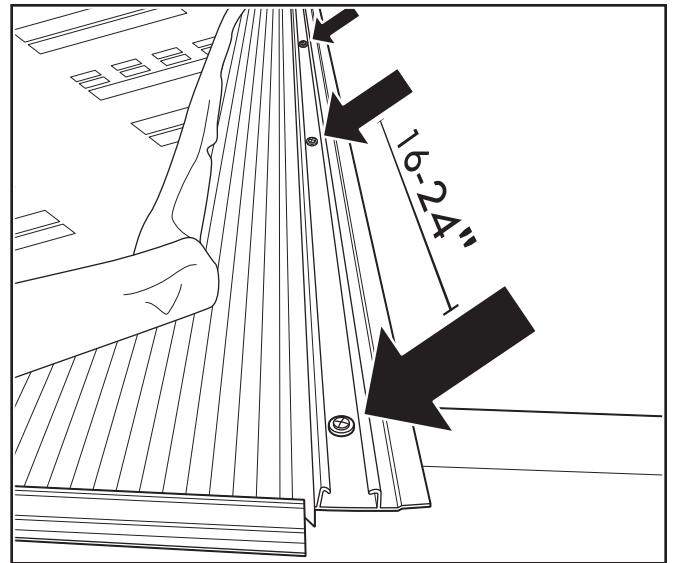
### Installing Base Connectors:

- Install base connectors in the direction of the slope.
- Install base connectors from left to right.



If the structure will not allow you to install the connectors at the exact distance apart required, you will need to trim the sheet to the correct width.

**When attaching the connectors to the structure, place a screw every 16 - 24"**



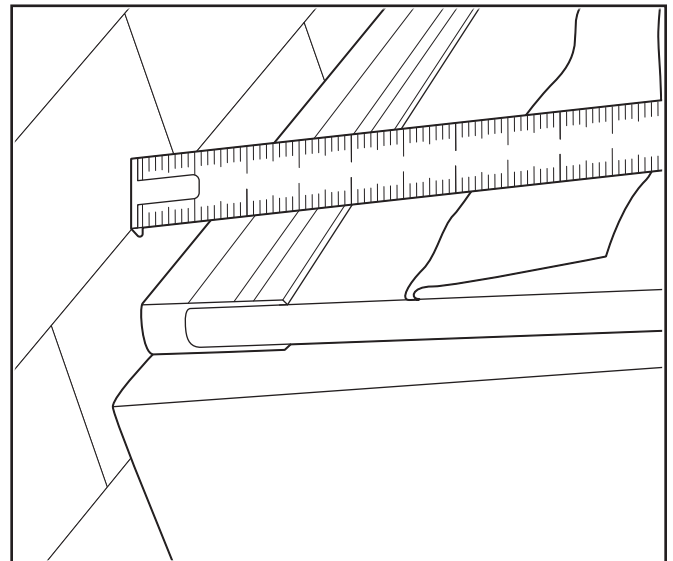
#### 4. Install the First Sheet

If you are installing next to a wall, stop and read the pro-tip.

##### **Pro-Tip**

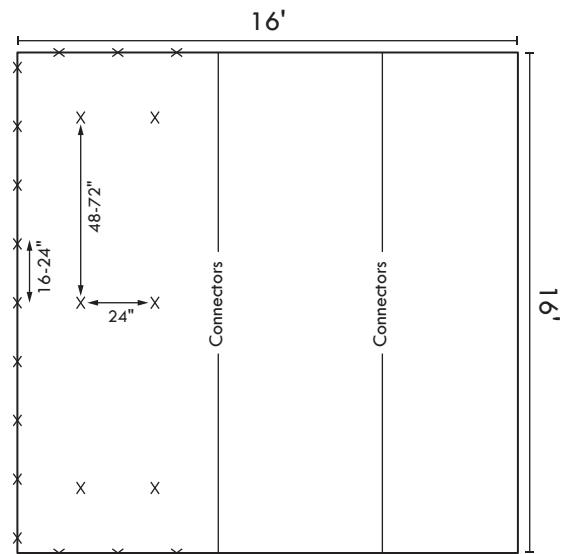
**DO NOT** install against a wall with no room for expansion. Leave at least 1/4" for sheets 12' and 1/2" for sheets over 12'.

Set the first sheet and proceed to step 5 to properly secure it. Attach the sheet at the perimeter and down the center (see below).

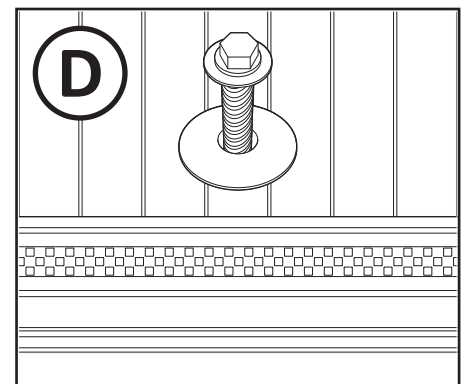
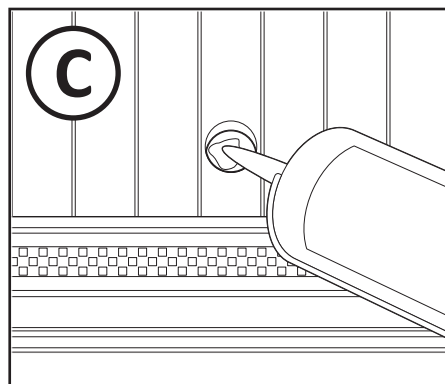
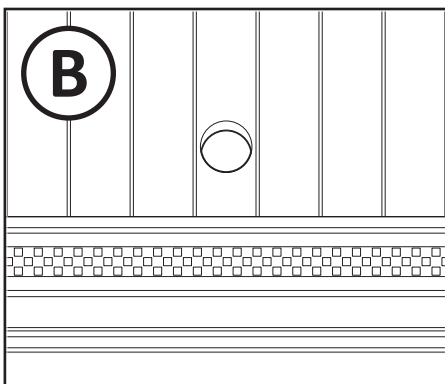


## 5. Screw the Sheet in Place

Space screws attaching to the **perimeter** of the structure 16 - 24" apart. Space screws down the center of the sheet. **Lengthwise** = 48 - 72" apart / **Widthwise** = 24" apart  
You may have more screws than you need.  
Follow the above guidelines, and do not feel like you must use them all.

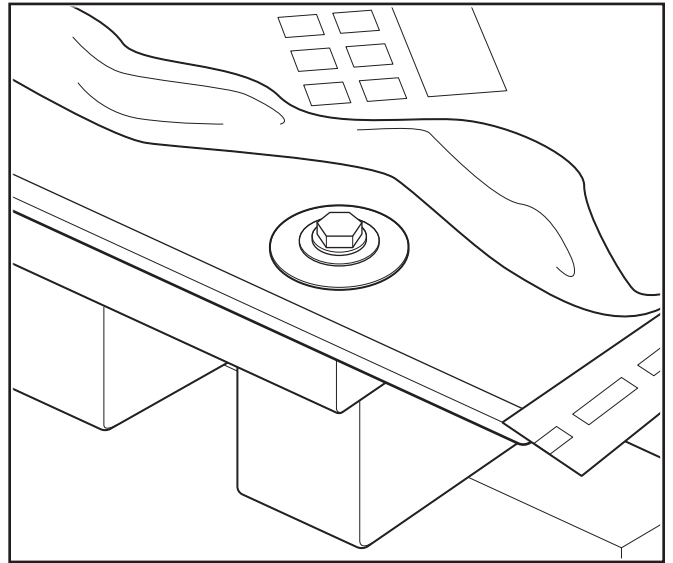
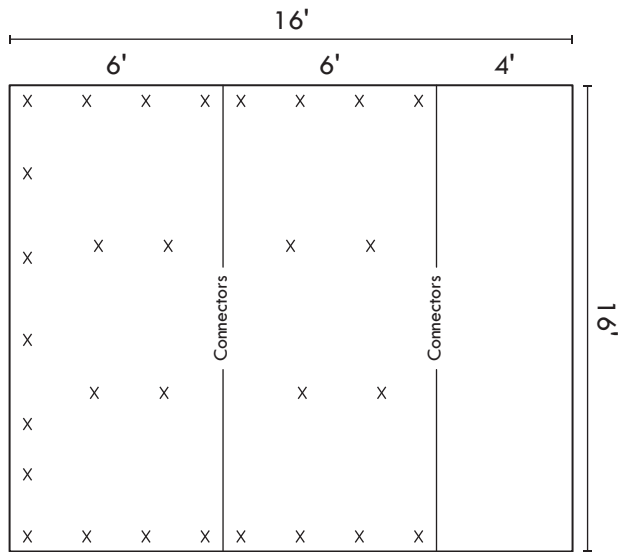


- A. Tear a hole in the protective film where the screw and silicone will be placed. We recommend leaving the film on until the install is complete to reduce the risk of damage.
- B. Drill oversized holes (1/4" diameter).
- C. Add a dab of clear silicone in hole to help prevent leaks.
- D. Install washer and screw. Tighten just until flat and snug. DO NOT over-tighten.



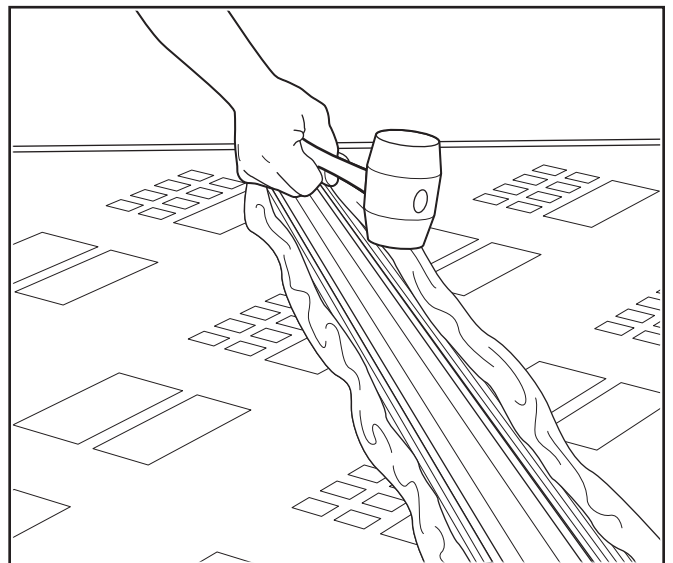
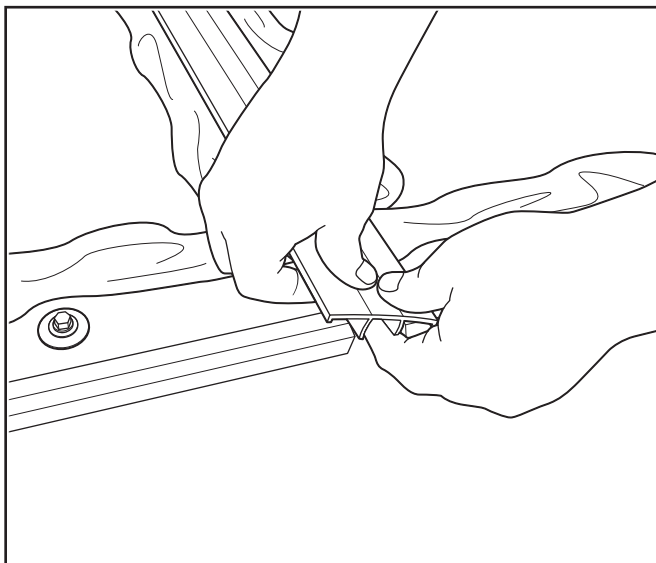
## 6. Place Next Sheet

Follow step 5 to screw the sheet into place. Interior sheets will attach to the structure at the top, bottom, and middle (see below).



## 7. Snap on Cap Connector

Snap on cap connector at one end and move toward the other end. If necessary, use a rubber mallet to snap into place.





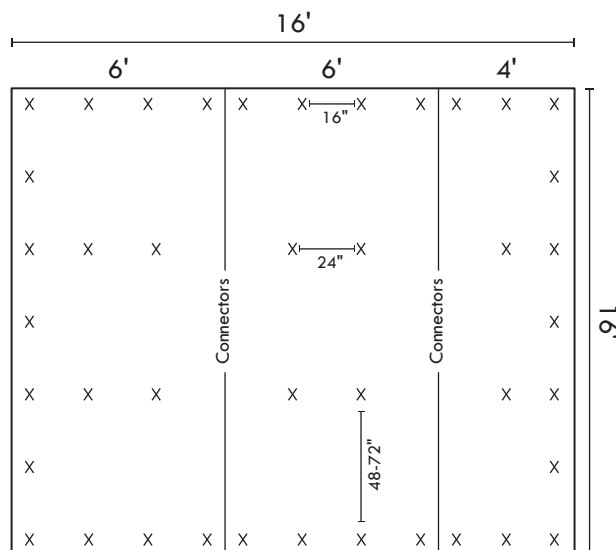
## 8. Install the Remaining Sheets

Follow steps 7-9 to place the remaining sheets.

When you get to the last sheet, measure the remaining distance to structure's edge, and if needed, cut down the sheet width. Use step 5 to attach the screws to the top, bottom, right perimeter, and middle (see right).

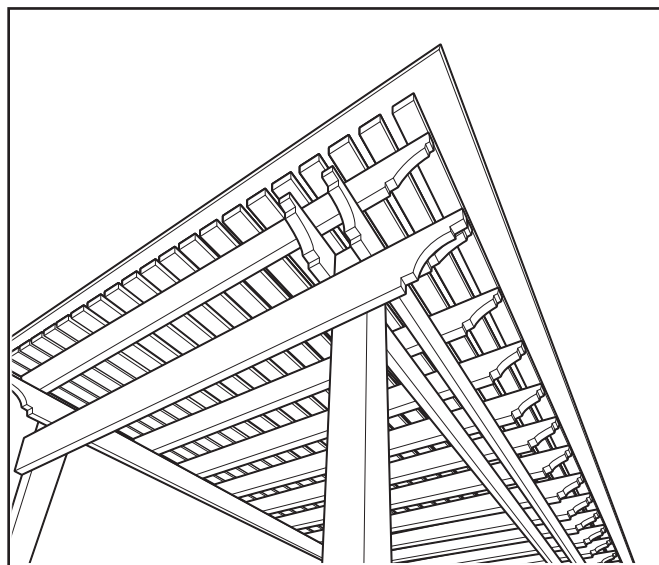
### Pro-Tip

If you have to cut a sheet width, put the cut end in the base and cap. This ensures you have closed flutes on the perimeter.

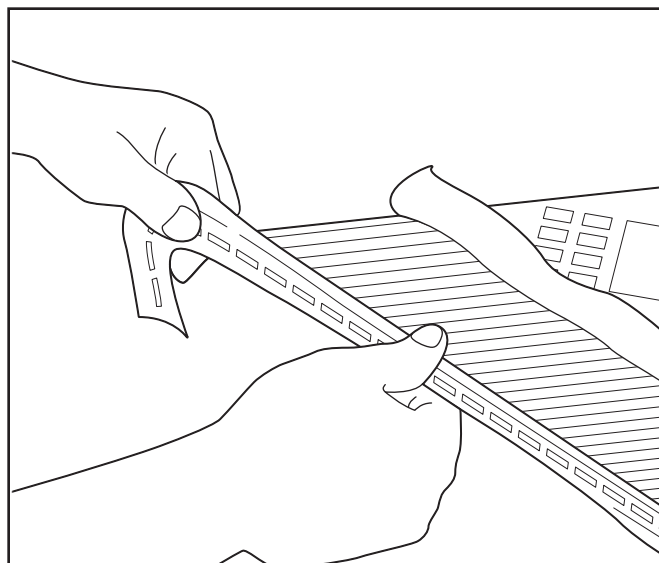


## 9. Cut Sheets and Sheet Connectors to Correct Length

Account for the sheet to extend a minimum of 1/2" (but no more than 3") past the lower elevation edge of the structure. This allows for adequate drainage. If it is an arched roof do not forget to account for radius!

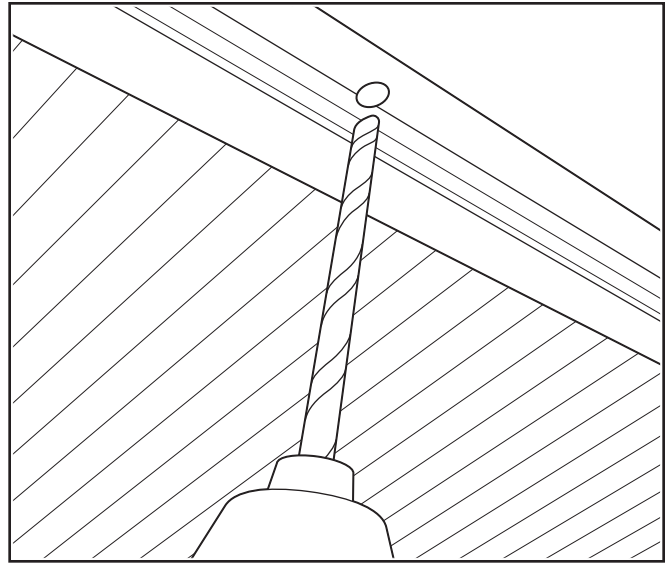


## 10. Apply Vent Tape



## 11. Drill Weep Holes in U-profile

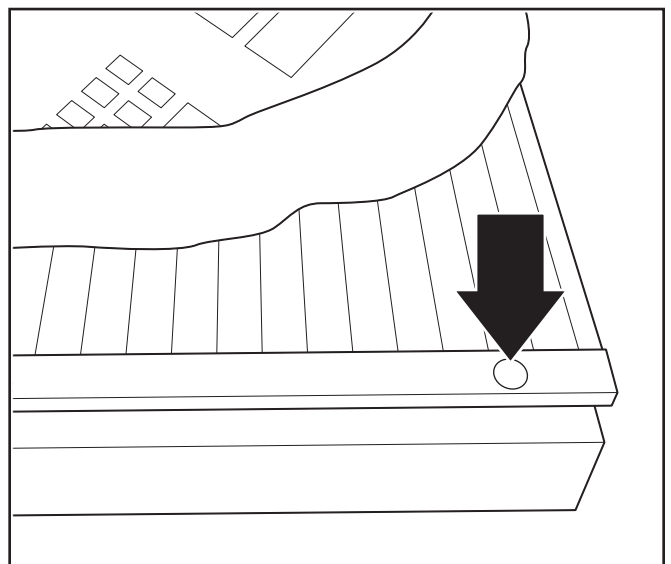
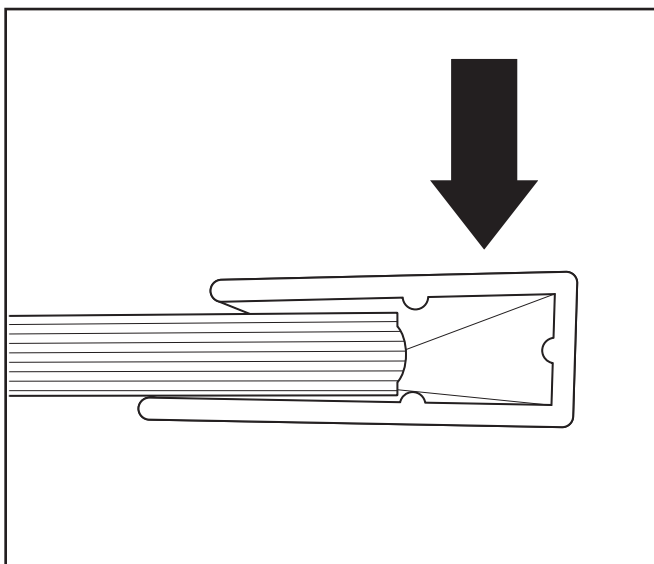
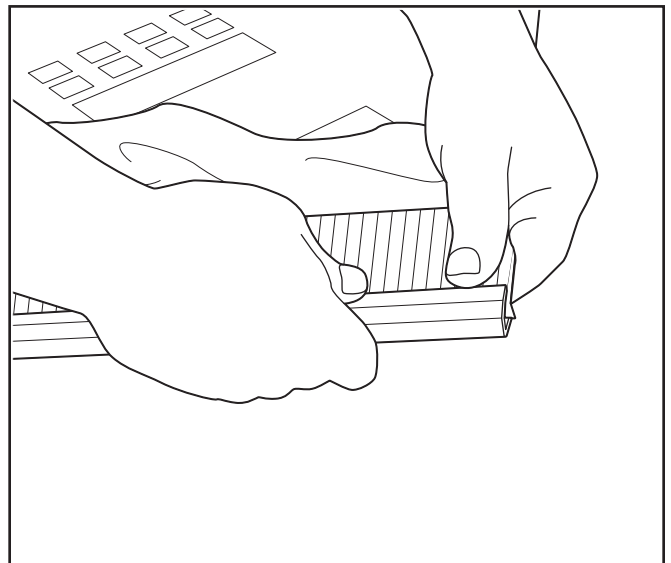
The lower elevation U-profile is the “gutter” that allows condensation to drain out. It is the only side that needs weep holes. Drill 1/4" diameter weep holes every 12" on the bottom of the U-profile (longer leg).



## 12. Install U-profiles on Sheets

Install the U-profile at the top and bottom of the structure, covering the ventilation tape.

The short leg is installed on top of sheet. Then, use clear silicone (or small, 1/2" long wood screws) to secure U-profiles on structure. The U-profile has ridges to keep the sheet from extending all the way to the inside edge of the U-profile. Install the screws through this gap.

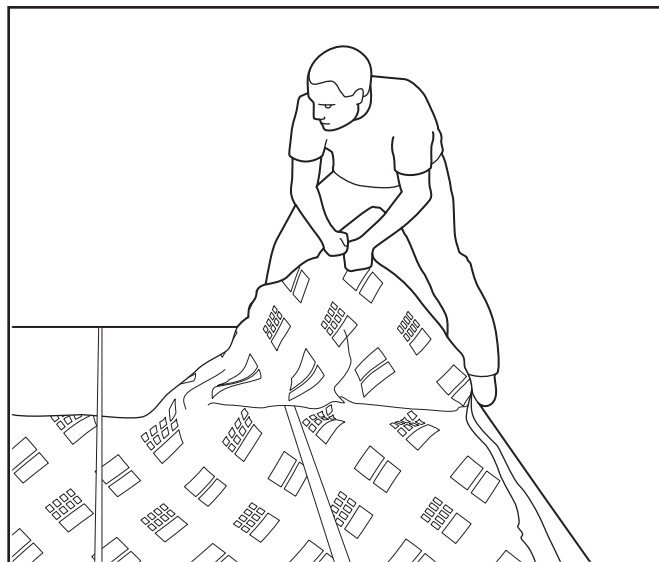


**\*STOP\***

Before moving to the last step, make sure you are completely done with the install. If you are installing next to a wall, make sure the flashing and silicone are in place.

### 13. Remove Printed Film off Panels

Do not let the sun bake the film onto the sheet.



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