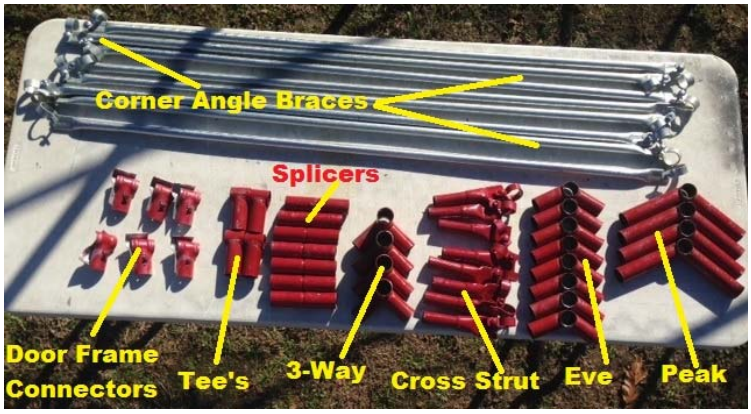
Gable Greenhouse Instructions

Part 1;

Build The Base Frame

Photo below shows connector components in this basic 12x12 kit. Self Drilling tech screws are included with kit.



This kit requires 16 gage or heavier 1 3/8" chain link fence top rail tubing. Here we are building a 12'x12' greenhouse frame however you can change the width and frame spacing to meet your own needs.

Purchase enough 1 3/8" tubing to build the basic 12x12 shown in Carols video you will need:

Cut list for 1 3/8" tubing required to build Basic 12x12 Gable Frame

5 ea. 1 3/8" tubing 144" inches long *(2 end base rails, 3 purlins)*

2 ea. 1 3/8" tubing 141 ¼" inches long *(side base rails)*

8 ea. 1 3/8" tubing 83 5/8" inches long *(rafters)*

4 ea. 1 3/8" tubing 78" inches long *(cross strut brace on rafters)*

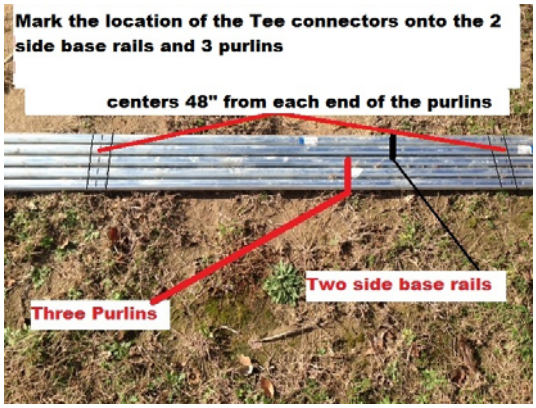
Extra tubing----cut 8 side poles the length you want the sidewall height to be up to 72" max.

Extra tubing required to frame up whatever size conventional door openings you choose.

If you choose scissor door option you will need 4 ea. 10 ft long 1" emt tubing

Begin by building the base frame. From the kit you will use four 3-way corners, four splicer's *(if using un-swaged tubes)* and four Tee's. (one splicer is missing from photo but it is in the kit)

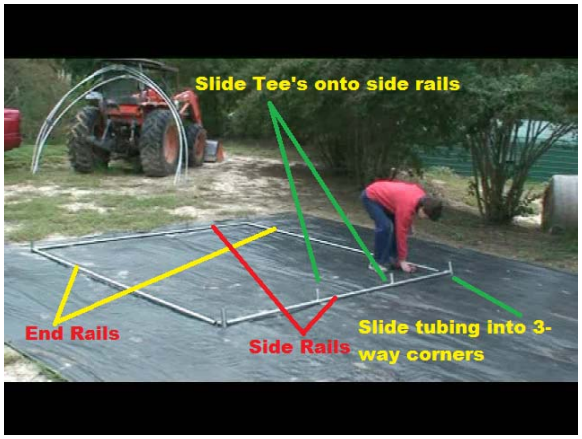
But first we need to mark the location of the tee's onto the 3 purlins (the 144" tubes) and 2 side base rails (the 141 ¼" tubes)

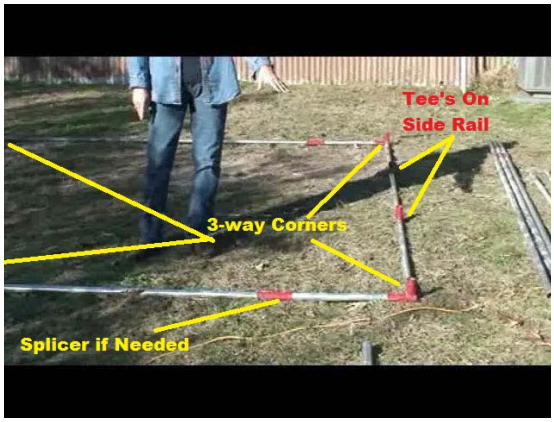


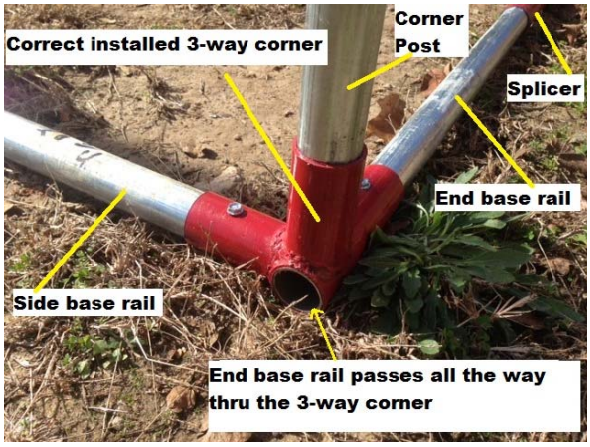
Both the front and rear end base rail must be 144" long before installing them into the 3-way corners, it can be one joint 10'6" long factory joint, if the factory tubing has a small swaged end and they usually do then add a 21 ¼" pc onto the swaged end full joint in which case you will not need to use the supplied splicer's. The measurement of the added pc will be longer if using un-swaged or tubing other that 10'6" factory length tubes.

The two side base rails must be 141 ¼’ long before installing them into the 3-way corners, be sure to slide the tee’s on first. Tee’s should be tech screwed to side rail at 48” from each end of both side rails to create a 4 ft spacing. the 48” should be measured from the outside of the 3-way corners.

Factory tubing lengths can vary, keep this in mind and cut tubes as needed to achieve the overall measurements of structure size. In any event the base rail frame for a 12x12 structure should measure 144” X 144” outside to outside after the four tee’s and four 3-way corners are installed.







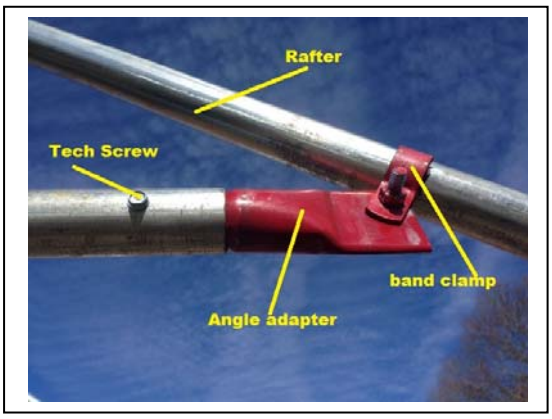
Part 2;

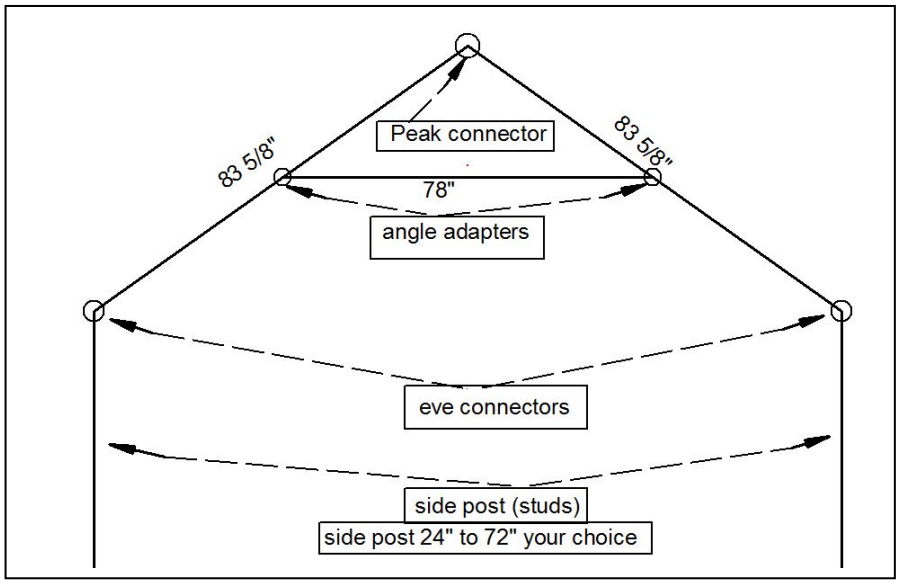
Build The Four Gable Frames

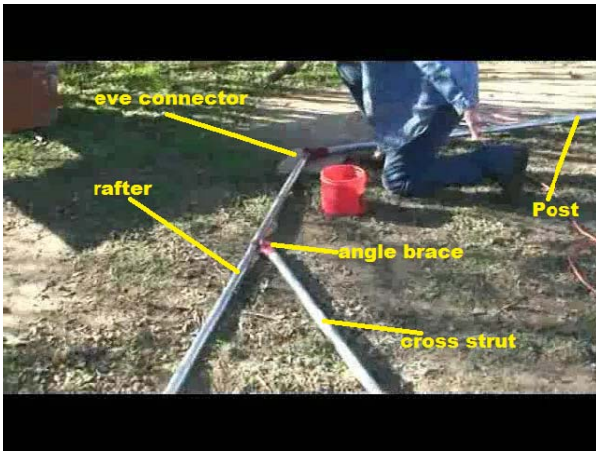
Photos show frame in vertical position for reference only.

<u>First build the two end wall frames.</u>

On level ground slide the two rafters into the peak connector and tech screw in place. now place the eve connectors on the ends of rafters, then slide the post into the opposite end of the eve connector. Tech screw the eve connector to the rafters and post. Using the angle brace connectors slide the connectors into the ends of the 78" tube and tech screw them in place. Position the clamps so they are the same distance down each rafter and tighten them securely. Then build the second end frame the same.







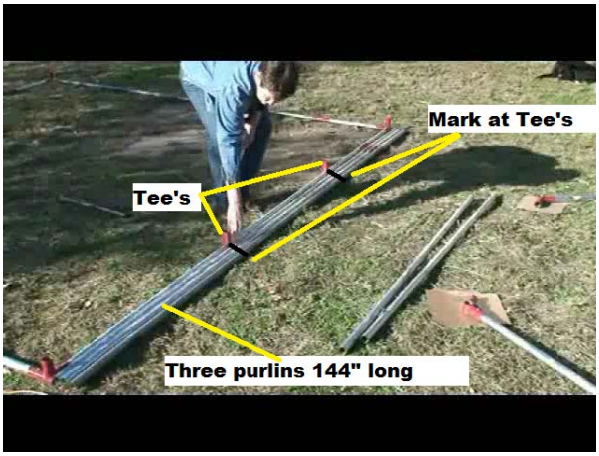
<u>Now Build the two interior frames.</u>

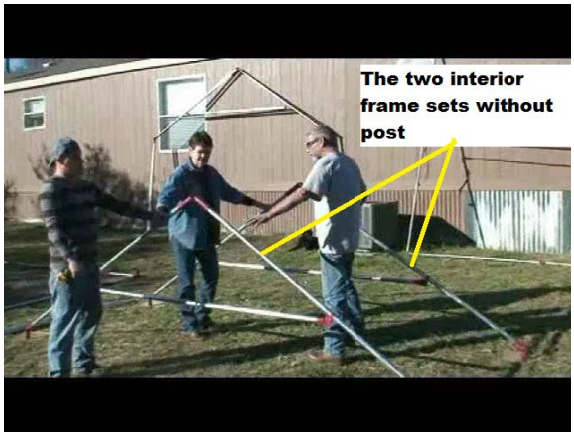
Build two interior frames exactly like the end wall frames inserting the post into the eve and screwing the eve to the rafter *<u>not to the post on these two interior frame set's.</u>* We are using the post to keep the connectors lined up, remove the post from these two frame set only, and set aside for later.

Part 3;

Install The Three Purlin's

Lay the three 144" purlins along side one of the side rails on the ground. You already marked the three purlins to match the two tee's on the side rail. Next stand the two interior frame sets up four feet apart.



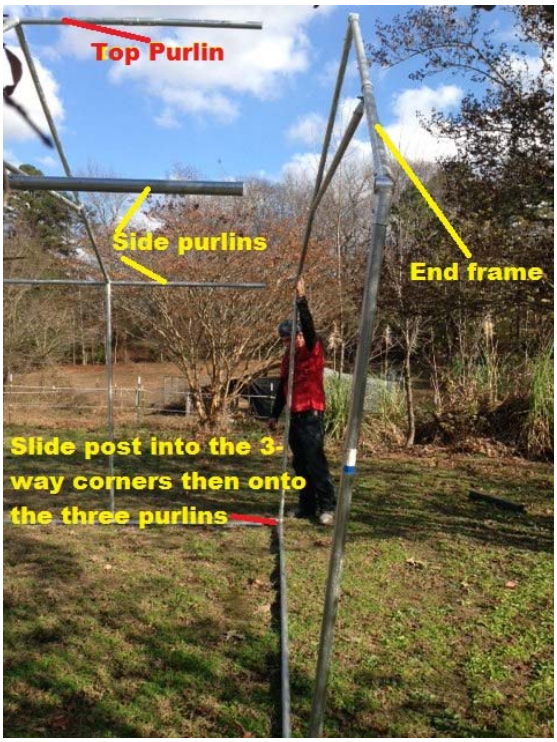


Then push each of the three purlins through the peak and two side eve connectors. Position the frame sets on the marks on the purlin then secure with tech screw.

Part 4;

Installing The End Frames

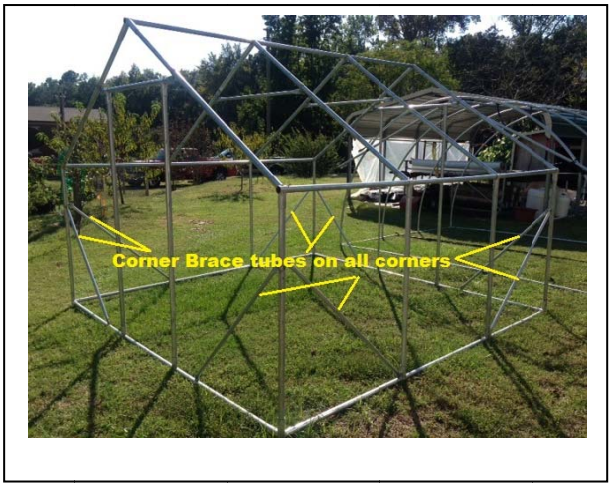
Install the two end frames (first two frames you built) These two frames have the post installed.



Part 5;

Door Openings

Corner braces



Plastic can be attached in a number of ways. We use the #13-G snap clamps to secure the poly covering.

We recommend you watch Carols video on building this gable unit and the separate video on installing poly on her modified gothic greenhouse. Snap clamps are used in the same manner regardless of frame shape or design. you will find these videos on our website at http://shop.hoopbenders.net or www.buildmyowngreenhouse.com to see how this is done.

Or call me at 903-497-1158 if you need more assistance.