

PPUG

"Creating Places Where People Meet to Grow"



Pikes Peak Urban Gardens

is a proud program of the [Pikes Peak Community Foundation](http://ppugardens.org/plans_for_3srbg)

Our mission is to:

"cultivate, educate, and serve the community through urban garden projects in the Pikes Peak region".

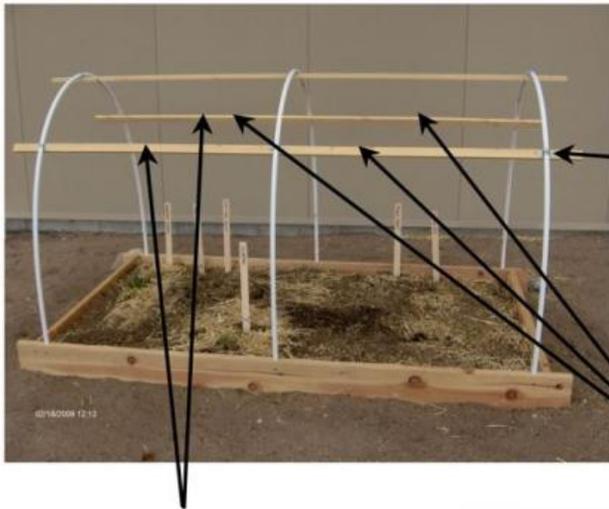
PPUG
c/o PPCF
730 N. Nevada Ave
Colorado Springs, CO 80903



1 in by 2 inch by 4 inch blocks, screwed through plastic and attached to 1 in by 2 in by 8 ft purlins



10 ft 1/2 inch PVC cut to fit under end hoop (about 9 ft but you will need to measure to be sure).



Attach with #8 3/4 inch lath screws

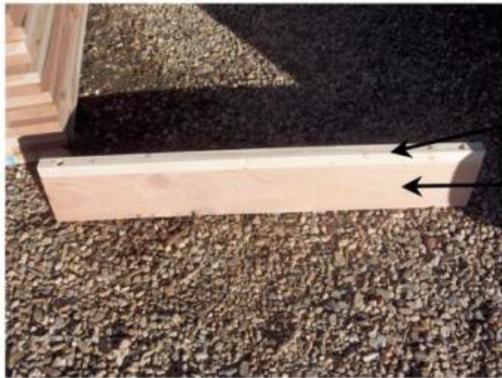
Purlins made from 1 in by 2 in by 8 ft fir.

Note that these two purlins are attached about 2/3 rds the way up the PVC so that when the cover is attached it can be lifted as shown.



Step Two:

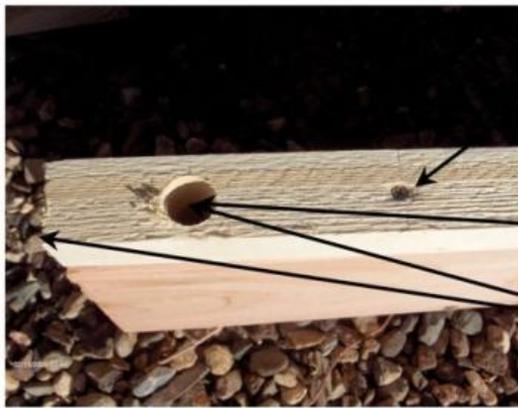
End Pieces



2 in by 2 in by 4 ft fir

2 in by 8 in by 4 ft redwood

Screw these two pieces together then drill them together. This assures that the holes line up. These screws should be removed after drilling.



Drill 7/8 inch hole, 3 inches deep.

Drill center of hole 2 1/2 inches from end.

Step Three:



Drill 7/8 in hole, 3 inches deep.

Drill center of hole 6 inches from end.

Insert 10 ft, 1/2 inch PVC into hole

Secure PVC to frame with 1 1/4 in screws

Build frame and use 3 - 3 inch screws to attach 2 in by 8 in by 4 ft to the 2 in by 8 in by 8 ft redwood

Offset 2 in by 8 in by 4 ft redwood in 3 inches as shown



Step Four:

The Cover



Cut one piece of plastic to the size of 135 inches by 8 ft. This will be your main cover.



Place a 2 in by 2 in by 8 ft fir under the 8 ft inch end as shown.



Staple plastic to wood. This will hold the plastic in place while you wrap the plastic, one turn around the wood.



Now place a 1 in by 2 in by 8 ft fir on top of 2 in by 2 in by 8 ft fir and screw in using 1 5/8 in screws (use 5 screws per side).

Repeat above on the other end.

Step Five:



Cut end PVC 109 inches (it is slightly shorter than the standard 10 ft pieces that will be used for the 3 middle hoops).



Secure PVC to end using a 1 1/4 inch screw



Cut a 2 - 4 ft by 4 ft pieces of plastic. One for each end. Now get a 1 in by 2 in by 4 ft piece of fir and staple the plastic to the bottom of the 4 ft piece of plastic. It will take about 5 staples to secure the plastic. This will hold the plastic in place while you roll it under one turn.



Now using 1 7/8 inch screws secure the 1 in by 2 in by 4 ft



fir to the 2 in by 2 in by 4 ft piece. Note in this picture we removed the 2 in by 2 in by 4 ft from the 2 in by 8 in by 4 ft end piece. This need not be done.

Step Six:



It is now time to cut the plastic to fit the end hoop. Note in picture #2 that someone needs to hold the plastic sheet tight while someone traces around the hoop.



Also note that you are leaving a three inch over-hang.



In the bottom picture note that we are wrapping the plastic around the PVC. Every 12 inches or so we are poking a hole in the plastic as close to the PVC pipe as we can get. This hole is to fit a 4 inch or 6 inch cable tie through the hole and it is pulled tight.



Material List:

Material List for Three Season Raised Bed Garden System

3 - 2 in x 6 in x 8 ft Redwood (this will make a 4 ft by 8 ft planting bed)

7 - 2 in x 1 in x 8 ft Fir

3 - 2 in x 2 in x 8 ft Fir

5 - ½ in x 10 ft white PVC pipe (SCH 40 600 PSI)

Note: ½ in x 10 ft PVC pipe SCH 40 has thicker walls and is sturdier than some other ½ PVC. Check to be sure it is SCH 40

15 ft x 8 ½ inch sheet of 6 mill U.V. treated clear greenhouse grade plastic (the cover will be 137 ½ inches by 8 ft ½ inch and you will need 2 - 4 ft by 4 ft pieces to cut to fit ends)

Note: this is enough to make the top cover and both ends. It is available through FarmTek (Garden Supply) or American Clay Works (Denver). We have been buying 14 ft by 100 ft rolls. Other sizes might work fine for you.

9 - ½ in Galvanized steel 2-hole pipe straps (item no: 301380 at Lowes)

Note: not all 2 hole pipe straps fit PVC so if you go with a different item check to make sure it fits over your ½ inch PVC

22 - 4 inch cable ties (to secure plastic to end pieces)...you may wish to use 5 or 6 inch cable ties instead. They are easier to work with. Paul likes 4 inch and I like 6 inch.

Screws

18 - 1 5/8 inch screws (to screw through 1 in by 2 in by 8 ft hoop cover and 1 in by 2 in by 4 ft end cover)

12 - 3 inch screws (to screw redwood base together)

6 - 1 ¼ inch screws (to attach 1 in by 2 in by 4 inch block to secure cover to purlins)

10 - 1 ¼ inch screws (to secure PVC to base)

18 - #8 ¾ inch lath screws (to secure pipe clamps to 1 in by 2 in by 8 ft wood purlins on PVC)

