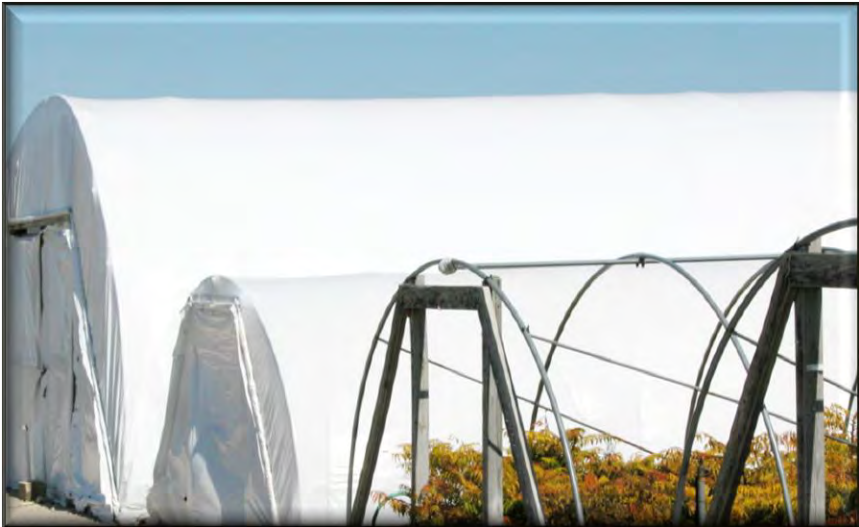




VersaQuonset 13

(13' x 80')



Detailed Assembly Instructions and Part List

The following materials are included in your complete Quonset package. If you ordered a basic or special package, please see your packing list for specific building components



MATERIALS INCLUDED IN COMPLETE PACKAGE

- √ 21 – Structure pipes (hoops)
- √ 4 – Purlin Pipes (One end swaged)
- √ 21 – Cross connectors w/ bolts
- √ 4 – Conduit ½" x 10' E.M.T. (used for end bracing)
- √ 24 – Cross connectors with bolts for attaching end bracing
- √ 42 – Rebar #4, 30" length
- √ 42 – Galvanized wire, 8" length
- √ 12 – 1"x6"x16' Treated lumber
- √ 10 – Soil anchors, 28" length
- √ 3 – Machine bolts to connect purlin pipes & structure pipes
- √ 10 – U-bolts to attach soil anchors
- √ 12 – Stove bolts to attach conduit



TOOLS & SUPPLIES NEEDED FOR CONSTRUCTION

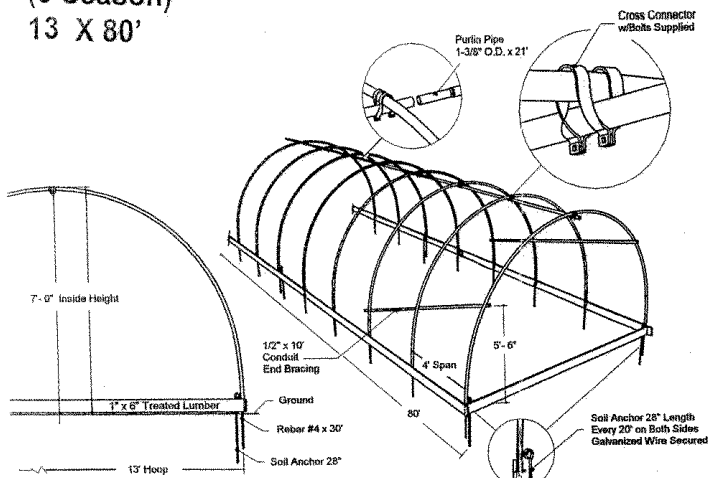
- √ 8 to 10 Pound sledge hammer
- √ 200 ft. of string or nylon twine
- √ 100 ft. tape measure
- √ Linesman pliers
- √ Hand or power saw
- √ 7/16" Deep well socket w/ratchet handle
- √ Power drill with 1 1/4" & 3/16" bits
- √ Hack saw
- √ 100 ft. Extension cord
- √ #7 Galvanized nails
- √ Two ladders
- √ Medium Screwdriver
- √ Electrical Tape

RECOMMENDED COVER

- √ Poly - 24' width at variable lengths
- √ Shade Cloth – 21'4" width at variable lengths

VersaQuonset 13
(3 Season)
13 X 80'

Fig. 1



DETAILED ASSEMBLY INSTRUCTIONS

BASE BOARD & REBAR

- 1 Locate the exact position where the completed Quonset will stand. Using a sledge hammer, drive rebar into the ground on all four corners leaving 10" above ground level. With a tape measure, measure corner to corner to make sure it is square. Tie nylon twine or string to all four corners to form a rectangle.

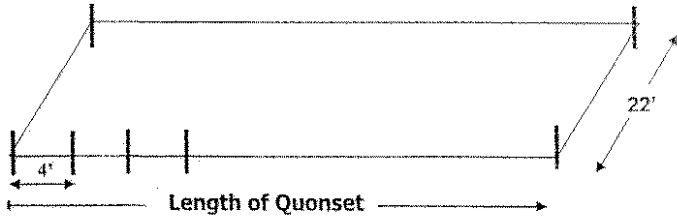
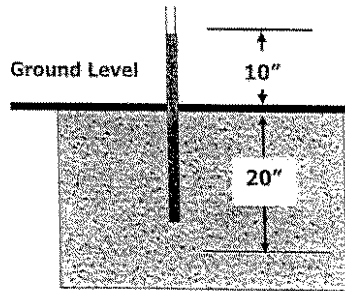
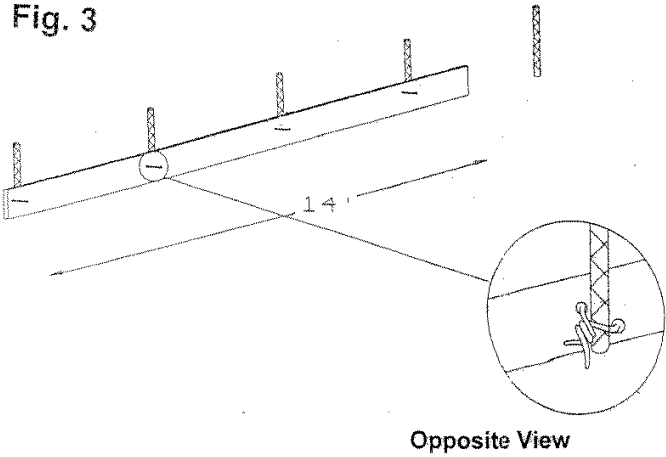


Fig. 2

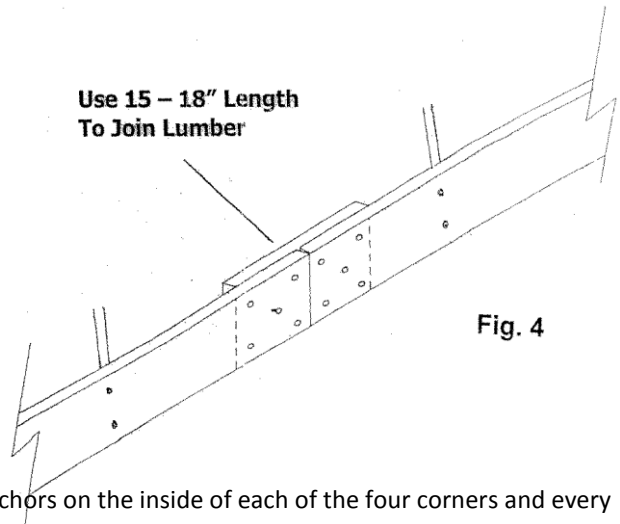


- 2 On sides of Quonset, drive remaining rebar every 4 feet. Do this on INSIDE of string, leaving 10" of rebar above ground level. Remove string.
- 3 Starting at corner, lay out 1" x 6" base board on OUTSIDE of rebar, leaving 1" extra outside of Quonset dimensions. Cut first piece of 14' as this will eliminate the problem of the junction of the two boards at rebar.

- 4 With boards standing on edge up against rebar, use a 3/16" drill bit two holes diagonally half way down on board on each side of rebar. Bend galvanized wire and insert into holes to attach rebar to 1" x 6" base board. Using linesman pliers; twist wire 4 to 5 times and cut off excess. Bend loose wire ends towards ground.



- 5 Use a saw to cut extra lumber into 10 pieces, about 15-18" in length. At each junction of 1" x 6", use a 15-18" piece to join lumber together. Join lumber on inside of Quonset using #7 galvanized nails. Bend down excess nails.



- 6 Auger soil anchors on the inside of each of the four corners and every twenty feet of house on both sides. Place as close to rebar as possible.

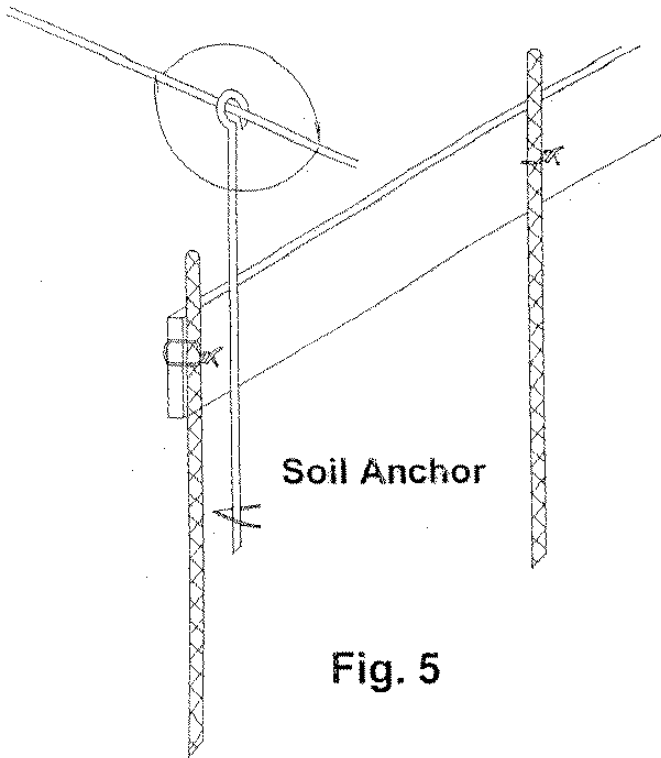


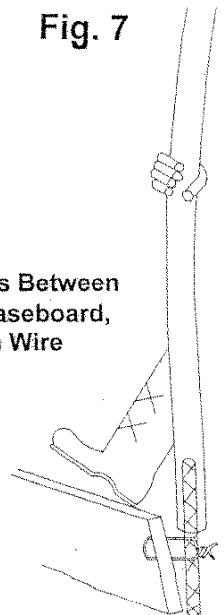
Fig. 5

STRUCTURE PIPES (HOOPS) & PURLINS

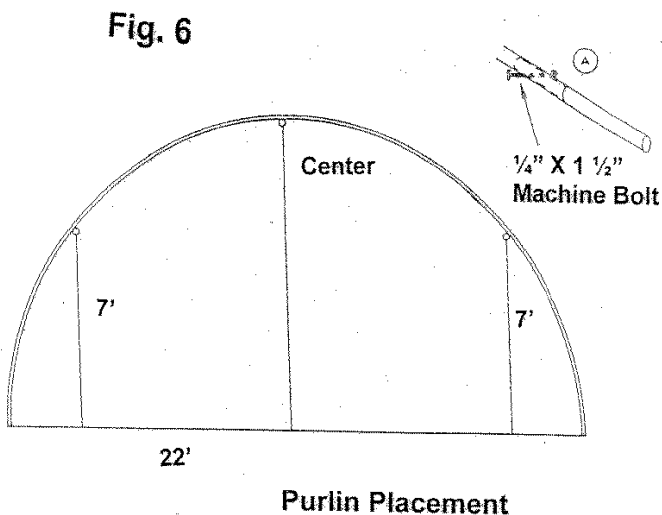
1. Structure pipes (hoops) may now be installed. Starting at one end and working to opposite end, each hoop fits over exposed rebar. Hoop should NOT rest on base board; it should be nested between rebar and base board, resting on wire (see Fig. 7).

Fig. 7

Nest Hoops Between Rebar & Baseboard, Resting on Wire



- Depending on length of house, all purlins should be joined together so that you have one length of pipe. DO NOT cut to Quonset length; you will cut off any excess later when instructed. Drill purlins using $\frac{1}{4}$ " drill bit and join with $\frac{1}{4}$ " x $1\frac{1}{2}$ " machine bolt (see Fig. 6-A). Attach completed purlin pipe to hoops using cross connectors.



- To install purlin, locate exact center of house. Place purlin below hoop (See. Fig. 7). Tighten first/end cross connector so it does not slip out, then loosely attach purlin at every 4th hoop to hold in place. Loosely attach remaining connectors, starting at one end of house and repeating down entire length.

TIGHTENING CROSS CONNECTORS

- Start with first/end hoop. Working down length of house, make sure hoops are plumb and straight. To check plumb, tie string across the width of the house from the bottom of both ends of the hoop being checked to just above the 1" x 6" baseboard. Then, tie a string with plumb/weight from the TOP CENTER of the hoop where purlin is attached. If weight lines

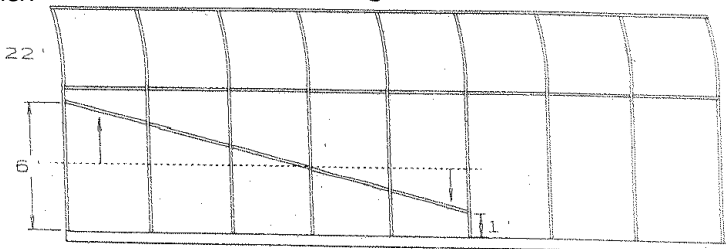
up with the string, the hoop is plumb and straight. If not, adjust the hoop on the purlin until the weight meets the string.

2. When hoops are straight, tighten cross connectors using 7/16" deep well socket on all three purlins, one hoop at a time. Work down length of the house, periodically checking the plumb of previously tightened hoops.

ATTACHING END BRACING

1. Use 2 men to attach end bracing – one for drilling outside and one to apply pressure inside. Before drilling through the hoop, use SHARP 3/16" frill bit to drill a hole diagonally through one end of conduit. Begin with the first/end hoop on inside of Quonset, and drill through pre-drilled hole in conduit and through hoop about 4' above baseboard. (See. Fig. 8)
2. Loosely attach conduit to hoop using 3/16" x 2 1/2" stove bolt. (Fig.8). Insert bolt from the outside of structure through the hoop into the conduit. Check plumb of the first hoop and adjust as needed. Position conduit diagonally and drill from outside of Quonset on bottom third hoop, about 1' above baseboard. Attach loosely using stove bolt. Check plumb and adjust, if necessary. Middle brace attachment will have some tension. Do not be concerned; push conduit firmly against hoop and drill from outside of Quonset through hoop and conduit. Attach with stove bolt. Use screwdriver and pliers to tighten stove bolts securely. Cover sharp ends of bolts with electrical tape, being careful not to interfere with application of poly or shade cloth. Repeat process for each remaining corner.

Fig. 8

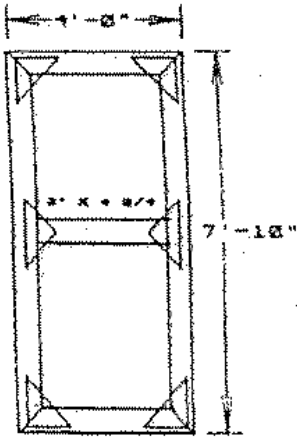
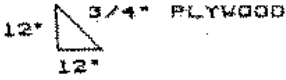


ATTACHING SOIL ANCHORS

1. Attach soil anchors to the hoop by sliding U-bolt around hoop and then through eye of soil anchor. Make sure threaded ends of the U-bolt are pointing to inside of Quonset so they will not interfere with covering. Tighten U-bolt as securely as possible, bending the plate around the soil anchor. After complete assembly, use hack saw to remove any excess purlin.

If you require additional information or special assistance, please give us a call at 630-365-1990

ADDITIONAL INFORMATION



Door Frame

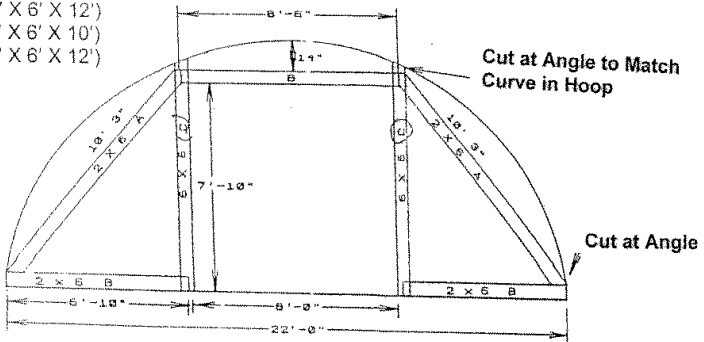
Parts List

- 7 - 2' X 6' X 8' (Enough for 2 doors)
- 4 Hinges
- 1 - 4 X 8, 3/4" Plywood
(Cut into 12" X 12" squares. Cut squares diagonally to look like diagram above. You will need 6 pieces per door.)

Optional Door

Parts List:

- C = 2 (6' X 6' X 12')
- B = 3 (2' X 6' X 10')
- A = 2 (2' X 6' X 12')



WHEN USING CHANNEL LOCK TO SECURE POLY:

- The ½" Tek screw (or self-drilling screw) is used to apply the base to metal, such as a Quonset hoop. The screw is applied every 12".
- To attach the base to wood, use the stainless steel nut and bolt. They should be placed every 2'. Pre-drill a ½" hole through the base and wood.
- To apply the spring into the base, weave back and forth. Remove the same way to prevent damage to the spring so it can be used again.

