



## LOW SIDEWALL GREENHOUSE INSTALLATION

**!!!! CAUTION: Tubing ends may be sharp!!!!**

**Read directions completely before beginning assembly.** We recommend that you visit The Learning Center at [www.growerslearning.com](http://www.growerslearning.com), click on How to Assemble under categories. In this section you will find video tutorials to assist you with the assembly of your new greenhouse. If you have ANY questions please give us a call at 866-928-3390.

### Step 1 – Ground Stakes

- Square the corner stakes with each other. Take all measurements on the outer edge of pipe.
- Drive Corner stakes and then drive rest of stakes **4 ft. centers** (Fig 1.1).

**NOTE:** Use a large bolt and washer, or 2 x 4 on top of stakes to drive them into the ground.

- The stakes should be approximately 24" below the ground. The section above ground will be the height of your sidewall (Fig. 1.2)

**About 7 ½ ft for High side, YOU MAY NEED TO CUT DOWN.**

**NOTE:** Use a string level to keep ground stakes level.

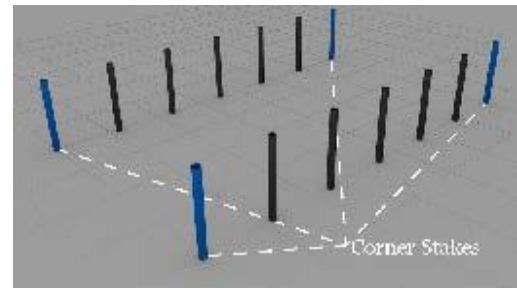


Fig 1.1 Ground Stakes



Fig 1.2 Ground Stake Depth

### Step 2 – Bow Assembly

- Place bow sections on flat ground.
- Slide sections together, and secure at joints with **self-tapping** screws (provided).
- Measure up each end of bow 6" and make a reference mark. The mark is how far the bow goes into the ground stake (Quonset Style Bow). High Side and Low Side insert till they stop at a sharp bend. Secure with tek screw.

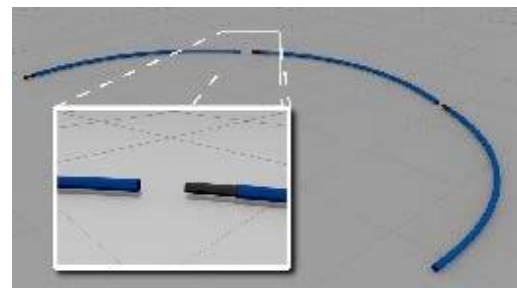


Fig 2.1 Bow Assembly

**NOTE:** **Bows are 2 or 3 pieces depending on your greenhouses' size.**

### Step 3 – Bow Installation

- After bows have been assembled, raise upright and place ends in ground stakes (Fig 3.1) and attach with tek screws.

**NOTE:** Place swaged (crimped) ends on the same side of the Greenhouse. This will keep the bows even, and lined Up. This may or may not be needed.

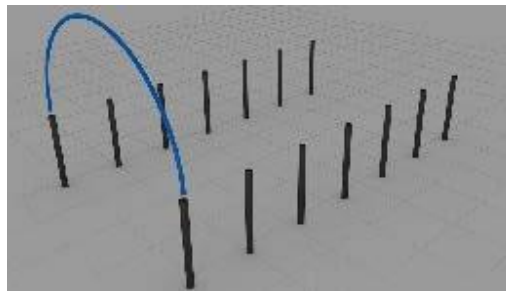


Fig 3.1 Bow Installation

### Step 4 – Purlins

- The straight **purlin pipe** sections connect together with self-tapping tek screw and the assembled purlin is attached to the first and last bow (Fig 4.1) using a two hole strap (Fig 4.2). The purlin clamps are used on the remaining bows (Fig 4.3). Trim extra pipe off. Make sure to view illustrations.

**NOTE:** You will also install a purlin at approximately 10 and 2 o'clock for houses 24 ft. and wider (Fig 4.1).

- Wind braces are used on houses longer than 40 ft.

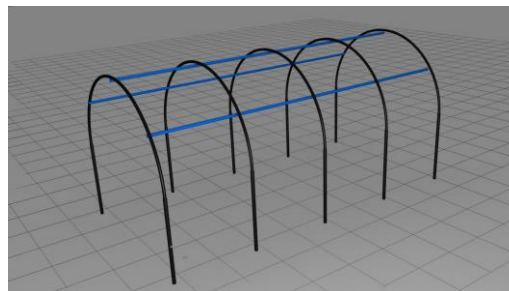


Fig 4.1 Purlins



Fig 4.2 Two Hole Strap



Fig 4.3 Purlin Clamp

### Step 5 – Base / Head Boards

- Attach **head boards** (also called hip boards on low sidewall houses) and **base boards** (2 x 6 pressure-treated recommended) on the top and bottom of the sidewall with 6" carriage bolts **or** 2-hole pipe straps.

**NOTE:** Both fasteners work equally well, it is simply a matter of personal preference. You must attach 2 hole strap to ground stake using self-tapping screws also use wood screws (not included) to attach to your timber.

**NOTE: For carriage bolts:** drill through ground stake, bow, and 2 x 6 and install carriage bolt.

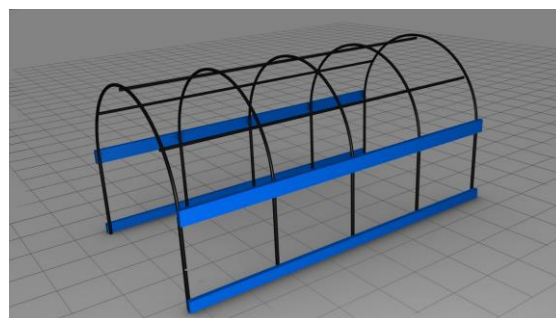


Fig 5.1 Head and Base Boards

### Step 6 – End Walls

- For Best results, we recommend the use of our [End Wall Kits](#).

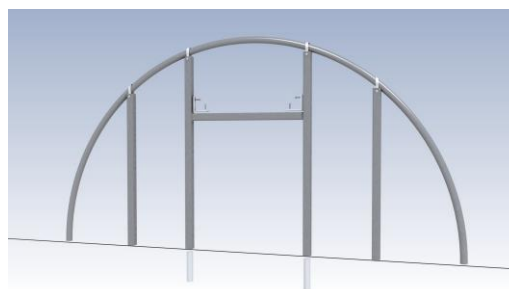


Fig 6.1 End Wall Kit

## Step 7 – Wire Lock

**NOTE:** Not all houses use wire lock. Some use batten tape and staples.

- Attach the Wire Lock **Channel** on the top of first bow and last bow using tek screws (included) every 18”.
- Attach the Wire Lock **Channel** on either the **head or base boards** (depending on whether you are using roll-up sides) all the way around the base of the greenhouse in the same manner using 1 ½” wood screws (not provided). **TEK SCREWS ARE NOT RECOMMENDED FOR THIS.**
- If you do not have Roll Up Sides, start at the base board on one side. Attach Wire base on face of board (Fig 7.1) and install on bow running all the way over bow to other base board. Screw every 18” with self-tapping screws. If you have Roll Up Sides cut and fit a piece of wire base in between hip board and base board (Fig 7.2). Then attach wire base to face of hip board (Fig 7.3) and install over bow to other hip board.
- Once you have the wire base installed on first and last bows it is time to install it on the base board or hip board. If you **do not** have Roll Up Sides install wire base on the base board the length of your house. If **you have Roll Up Sides** run the wire base on your hip board the length of the house. Now it is time to install the wire base on the ends of your house. Wire base is only used on the base board you must cut to fit. End kit door opening vary in sizes so each end is different if you need assistance call tech support, 866-928-3390.

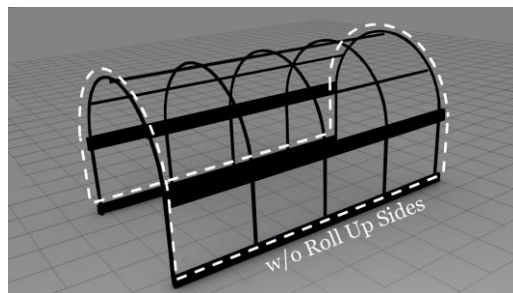


Fig 7.1

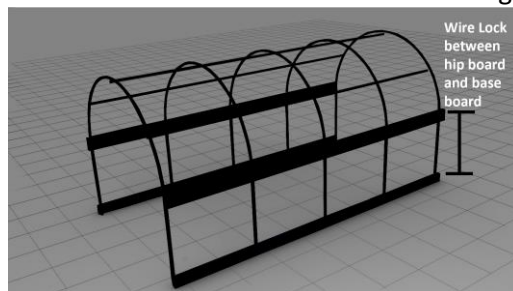


Fig 7.2

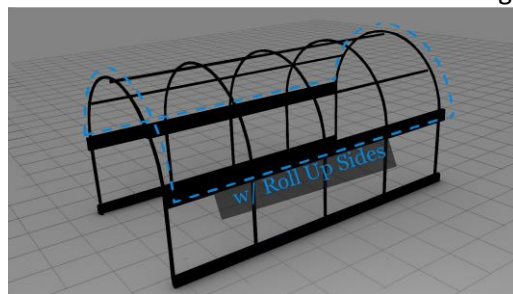


Fig 7.3

**NOTE:** See the [slideshow online](#) for more information.

## Step 8 – Film Installation

- When preparing to install film on your greenhouse be aware of the wind. Try to pick a calm day. Start by locating the film for the ends of the greenhouse. Next gather 3 pieces of wiggly wire you will use this to hold film in place. Stretch the film over the bow and attach the film with the wire. You can adjust film by removing wiggly wire and reinstalling. Once end film is in place it is time for the main film. Roll main film out along side of the greenhouse. Lay wiggly wire out around the house. Pull film across house and attach on one end. Go to the other end and pull tight. You may need to go back and adjust again. Once in place wire lock completely.
- Pull Film over the greenhouse (on a non-windy day!)

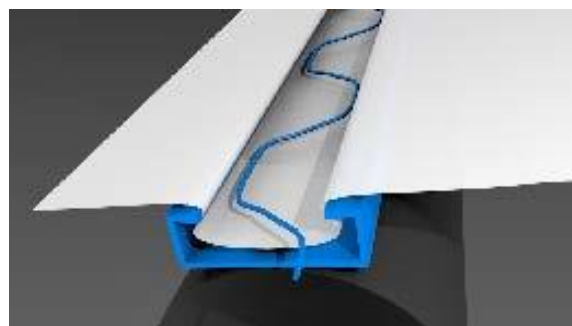


Fig 8.1 Wire Lock / Film Installation

**NOTE:** Plastic normally has 12” or larger overhang on all

sides.

- Lay film over the Wire Lock Channel, and fasten the plastic into the channel by placing the wiggle wire into the channel on top of the plastic (Fig 8.1).

**NOTE:** Please [watch the video online](#) for more information.

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### **Additional Information Concerning Weather**

**During windy / stormy / winter conditions it is mandatory to roll sides down and wire lock ends. Lack of doing this may result in greenhouse damage due to wind uplift. If you are expecting sever snow, 6"plus you should broom snow off of the greenhouse. Feel free to call for more explanation, 931-528-3390.**

Please feel free to call us if you have any questions.

Growerssolution.com    931-528-3390

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