

Traditional Series Free Standing Glass Greenhouses

GREENHOUSE INSTRUCTIONS



Contents

Foreword	2
User Notes	2
List of Drawings	3
Traditional Straight Series Component List	4
Foundations	5
Assembly of the Aluminum Frame	
A. Front Gable-End Assembly With Door	6
B. Back Gable-End Assembly	13
C. Sidewall Assembly	14
Aluminum Frame Installation	
1. Side Wall	15
2. Side Wall To Back Gable End	15
3. Side Wall To Front Gable End	15
4. Bolt Side Wall to Front and Back	15
5. Ridge	16
5A. Truss Assembly Installation (If necessary)	See Appendix A
6. Glass bar With Sliders (#1 or #2 or more)	16
7. Vent Frame Angle	16
8. Glass bars	16
9. Fastening The Base/Sill To The Foundation	
10. Taping Glass bars with Foam	22
<i>Side Vents, Intake Shutter, Polycarbonate Roof and Exhaust Fan Installation (if necessary).</i>	<i>See Appendices B through F</i>
Glass and Cap Installation	
General Information	23
9. Side Glass	23 & 24
10. Roof Glass	25
11. End Walls Glass	26
12. Sealing The Greenhouse	27
Door And Vent Installation	
13. Door Installation	28
14. Vent Assembly	30
15. Vent Installation	30
Appendices: Optional Installations	
Truss	Appendix A
Vent Opener	Appendix B
Intake Shutter	Appendix C
Exhaust Fan	Appendix D
Side Vent	Appendix E
Glass Louvre	Appendix F
Polycarbonate Roof	Appendix G

Foreword

Your Traditional greenhouse is designed and constructed to the highest engineering standards and provides structural strength and maintenance-free service for year-round gardening pleasure.

The Traditional greenhouse must be built upon a firm, level surface. The greenhouse foundation or sill can be made from pre-treated timbers, concrete or bricks. Whatever your choice of material, the base must be square and level.

When selecting a site for your greenhouse, keep in mind that a flat, level site is essential so that the greenhouse can be easily installed and the complete structure is stable and secure. If possible, choose a site with proper water drainage.

Locating the greenhouse in a north-south position is most suitable for raising summer and autumn crops since the sun's rays will be on the greenhouse from daybreak until sunset. An east-west position is ideal for early spring and winter crops since the winter months, with shorter daylight hours, still allow six hours of light exposure to the greenhouse.

Try to locate your greenhouse for easy access, especially to the necessary power and water that is required for greenhouse gardening.

Please watch the enclosed video and follow the steps in this manual for your greenhouse installation. *Remember, if all else fails, read the instructions.*

User Notes

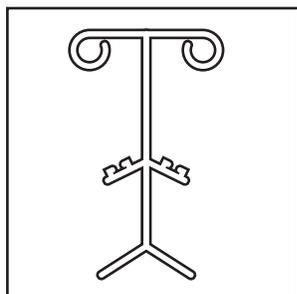
The Traditional greenhouse structure has been designed to withstand extreme weather conditions such as high winds and accumulated snowfall. Hanging baskets and sidewall shelving can also be attached to its sturdy frame. The greenhouse design also makes it possible to add extra sections at a later date.

Once a year the greenhouse needs to be completely washed inside and out. You should do this task when your greenhouse contains the least number of plants, generally just before the garden plants are brought in for wintering over. A recommended cleaning solution is a mixture of hot water with a disinfectant such as Lysol or Pinesol. Any benches, shelving, plastic trays, pots and baskets should also be cleaned thoroughly. *Prevention is the best known method for controlling pests and diseases in the greenhouse.*

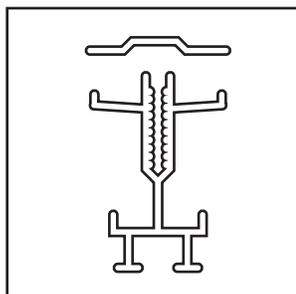
List of Drawings

Foundation Styles	5
Front Gable End (With Door) Inside View Picture	6
Front Gable End (With Door) Inside View Line Drawing – <i>Details 1-7</i>	7
Back Gable End Inside View Picture	11
Back Gable End Line Drawing – <i>Details 1-5</i>	12
Assembly Outline Steps 1-5	17 - 18
Steps 6-9	19 - 21
Door Installation	28
Vent Assembly - Exploded View	29
Vent Detail	31
Truss Assembly	Appendix A
Vent Opener	Appendix B
Intake Shutter	Appendix C
Exhaust Fan	Appendix D
Side Vent	Appendix E
Polycarbonate Roof Panels Installation	Appendix F

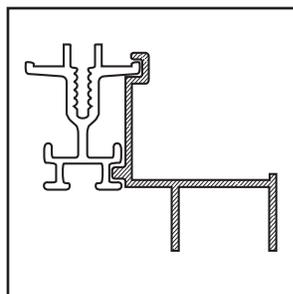
Traditional Component List



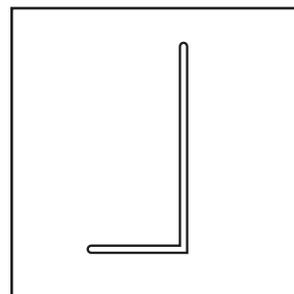
Ridge



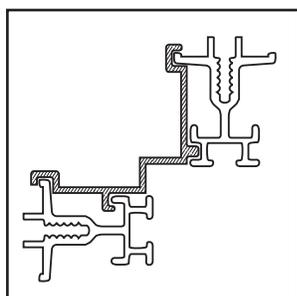
Glass Cap & Glass Bar



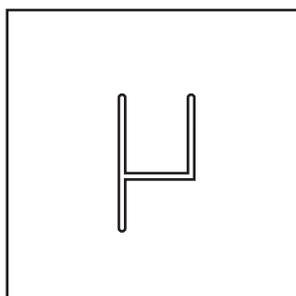
End Rafter



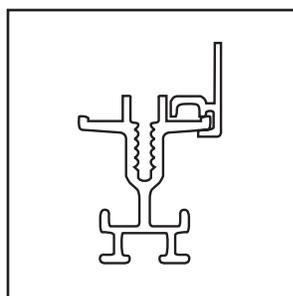
Ventframe Bottom



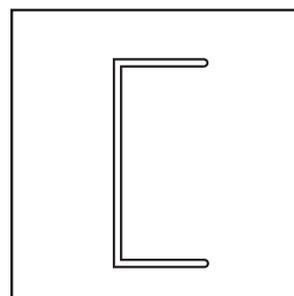
Corner Post



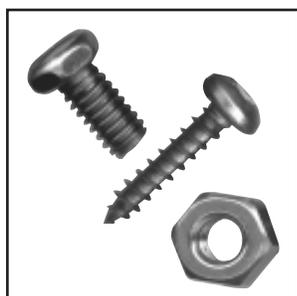
Plastic h came



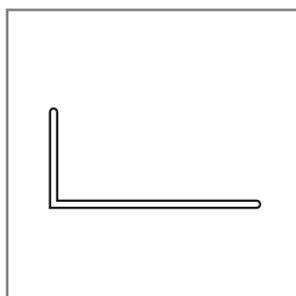
Vent Frame Sides



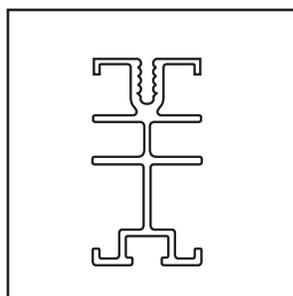
Perlin (if required)



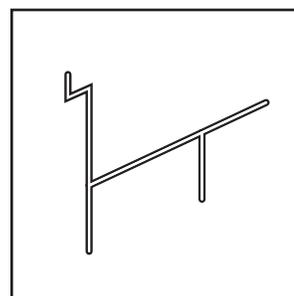
Screws and Bolts



Base / Sill



Door Frame



Gutter

Tools

- #2 Square head screw driver
- Measuring tape
- Level to check foundation
- 3/16" concrete bit (concrete foundation)
- 9/64" aluminum bit
- 15/64" aluminum bit fastening perlin to trusses (larger greenhouses)
- 7/16" wrench
- Razor blade cutter
- Caulking gun
- Ladder
- Hammer

Optionals

- Automatic Opener
- Circulating Fan
- Max/Min thermometer
- Benches
- Eyebolts
- Motorized Intake Shutter
- Exhaust Fan
- Thermostat
- Heater

Foundations

Check your local building codes for foundation requirements in your area.

CONCRETE FOUNDATIONS

When you prepare the concrete foundation, the size should be 1" longer and wider than the greenhouse's outside dimensions. One option is to fasten a treated 4" x 4" wooden sill on top of the foundation. This sill is the exact outside dimensions of the greenhouse.

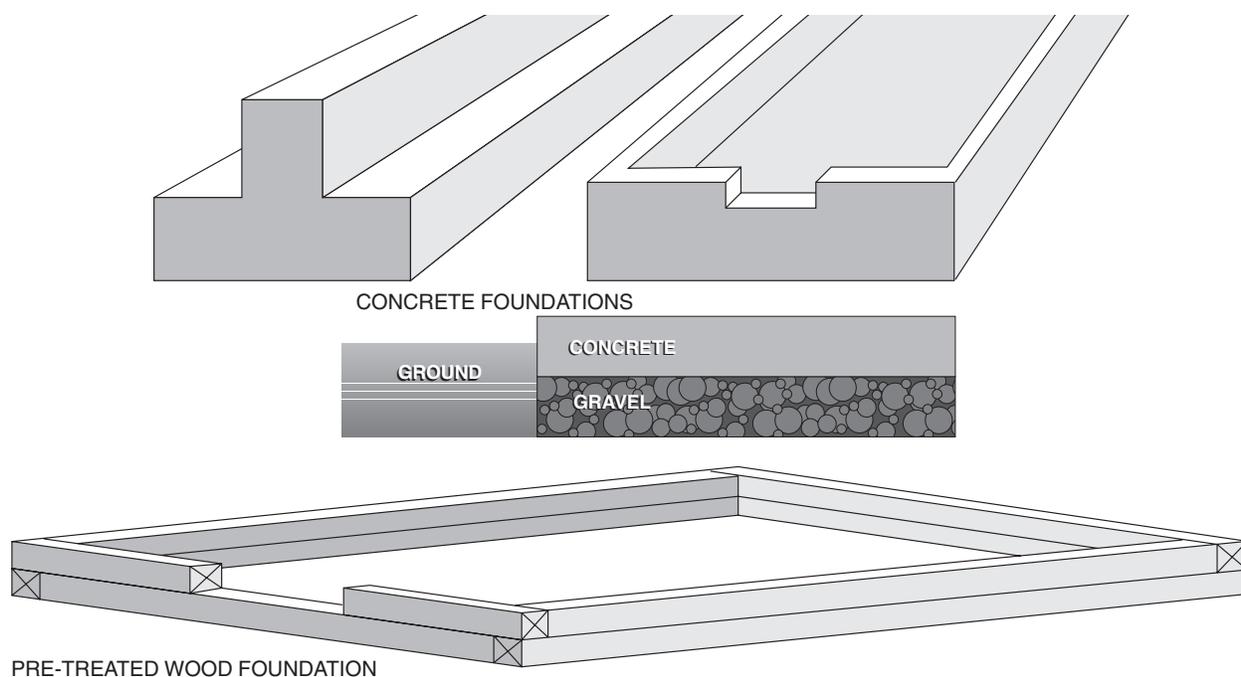
PRE-TREATED WOOD FOUNDATIONS

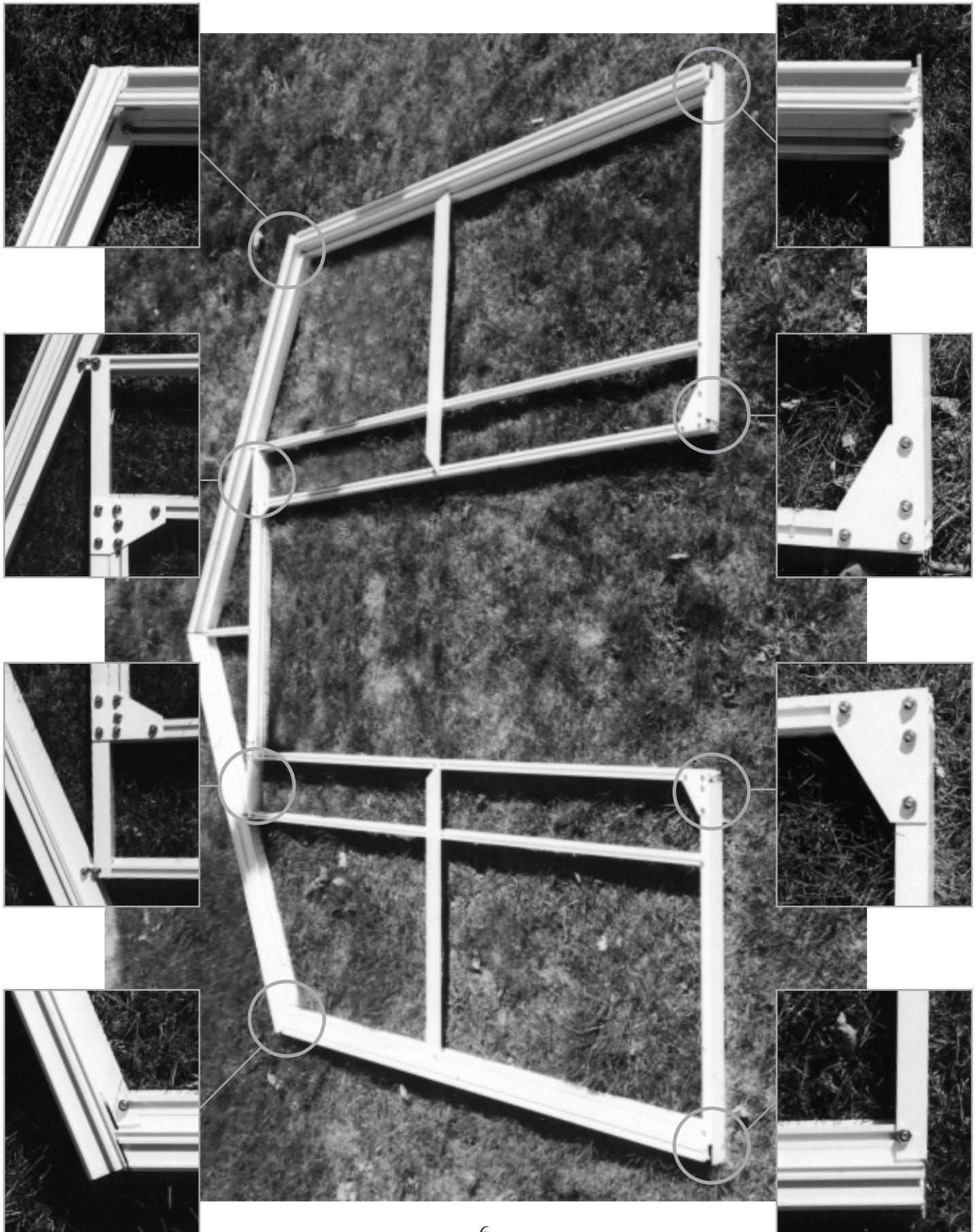
A greenhouse that is approximately 100 sq. ft. (9.3 m²) can be fastened to a 4" x 4" pre-treated wood timber foundation. For larger greenhouses, a 6" x 6" wood timber foundation is recommended. These timbers are placed in a 4" (10 cm) deep and 8" (20 cm) wide gravel bed. Wood timbers can be stacked to increase the height of the greenhouse. *One advantage of the wood foundation is that it is not classified as a permanent structure. Therefore, if you move, the greenhouse can be dismantled and moved to another location.*

A SQUARE AND LEVEL FOUNDATION

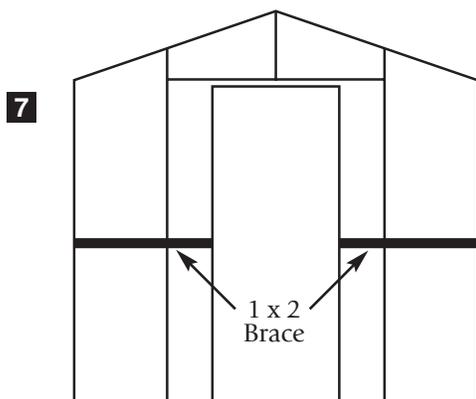
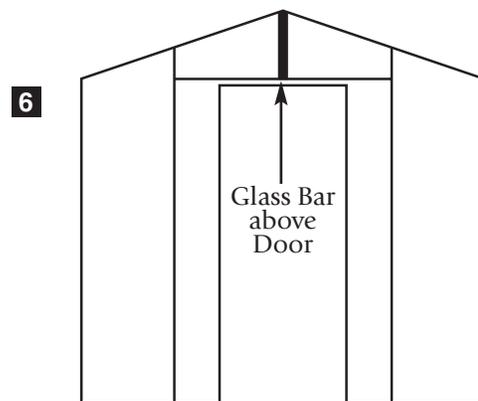
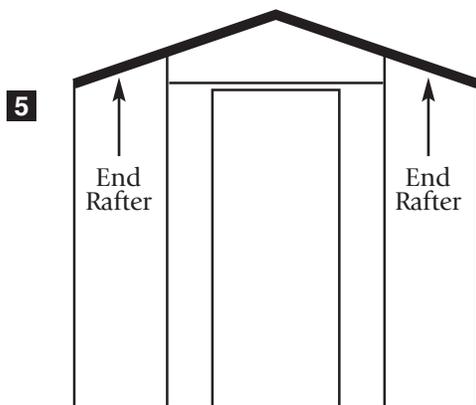
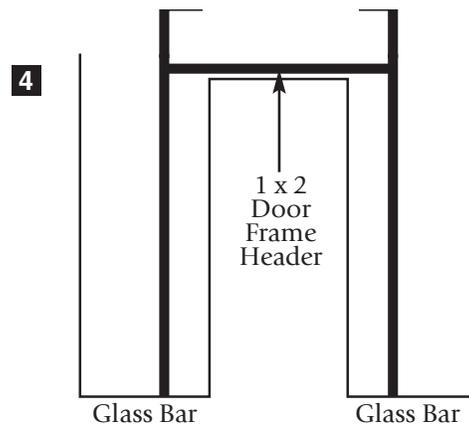
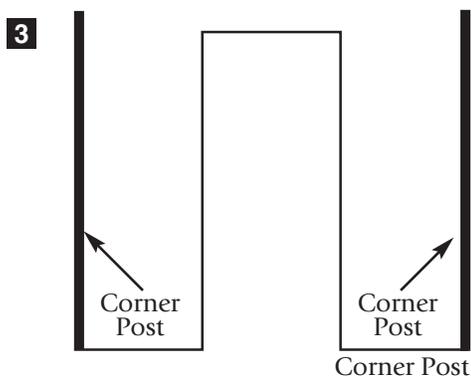
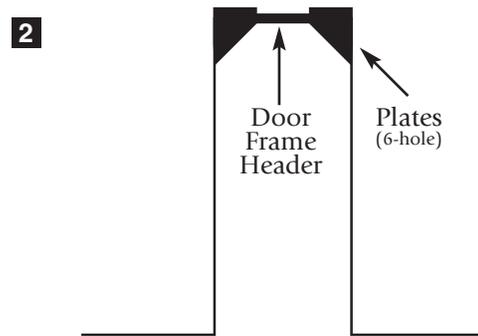
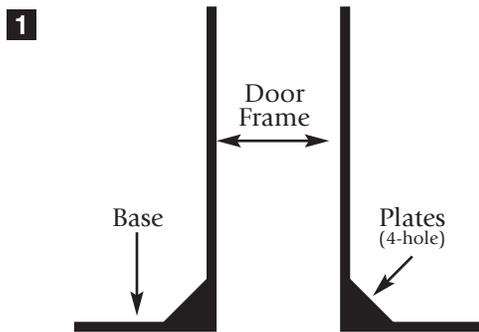
Check the width and length of the foundation's outside dimensions. Then, square the foundation by measuring diagonally from opposite corners in the form of an "X". Next, use a *long* carpenter's level to check and adjust the foundation until it is level. Finally, measure where the door will be placed (in most cases it is 34 1/2" wide). Mark these measurements on your foundation.

Foundation Styles





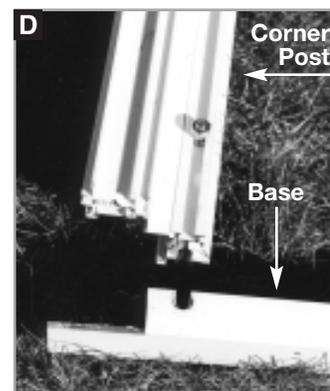
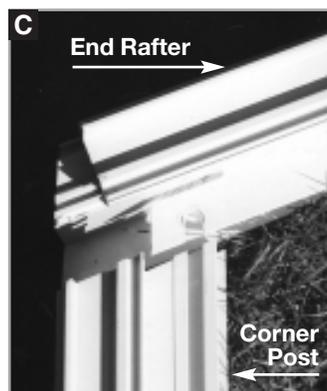
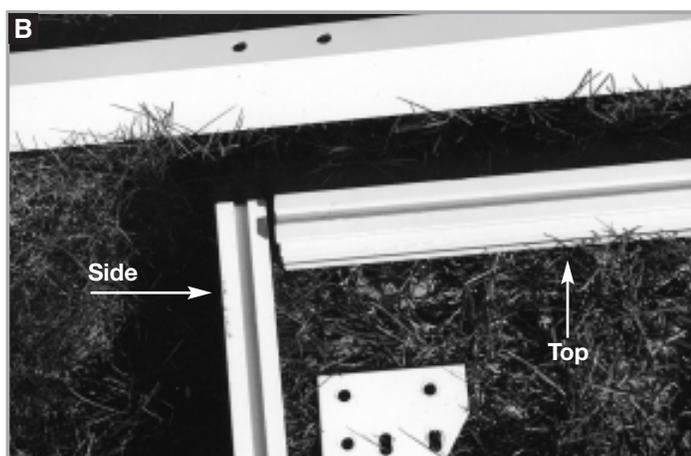
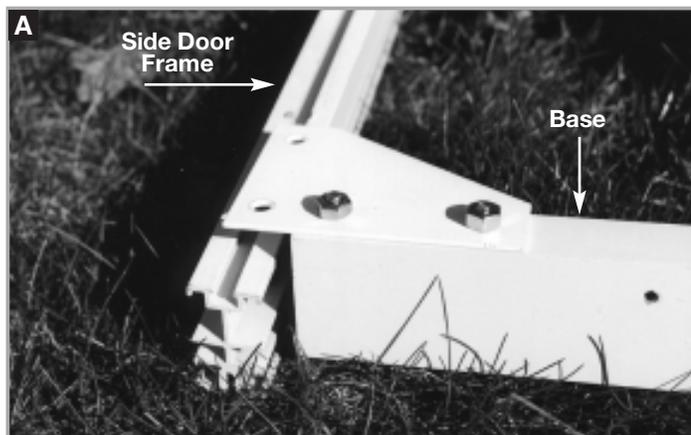
Front Gable End (with door) Line Drawing Assembly Procedure



Front Gable End Assembly

Lay out the front pieces into the shape of an end wall. The doorframe and all glass bars have a track for the bolts. The track must face up towards you when you assemble the gable ends. Slide the bolts in to the ends or use the notches that are punched out in the glass bars. Refer to the line/detail drawings when assembling. (*the sketches/drawings/pictures are viewed from inside the greenhouse.*)

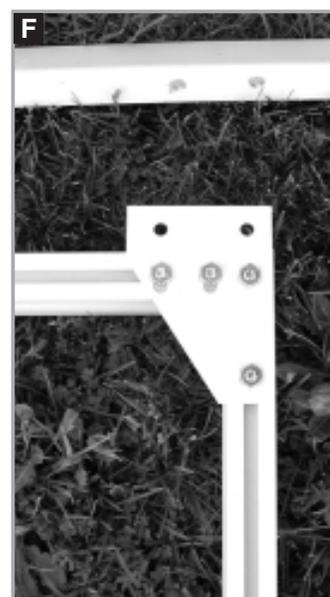
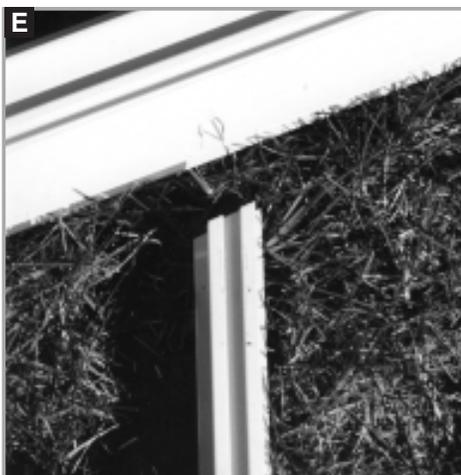
1. Bolt the bottom plates (4 holes) to the base/sill and the doorframe sides using 1/4" x 1/2" stainless steel bolts (*see Pic A*). Before tightening the bolts, be sure that it is square. (*If you ordered a greenhouse with a door drop, measure from the bottom of the doorframe to the underside of the base according to the specified distance.*)
2. At the top of the doorframe, put on the doorframe header (which looks the same as the side pieces). Put the header *between* the two side pieces and bolt on the plates (6 holes). (*See Pic B.*) The plates should stick up 1" above the doorframe. Note how the plates are put on. Before tightening the bolts, be sure to square up the doorframe.
3. Take the corner post (angle cut on top) and bolt it to the base. (*See Pics C and D.*)



Front Gable End Assembly (contd.)

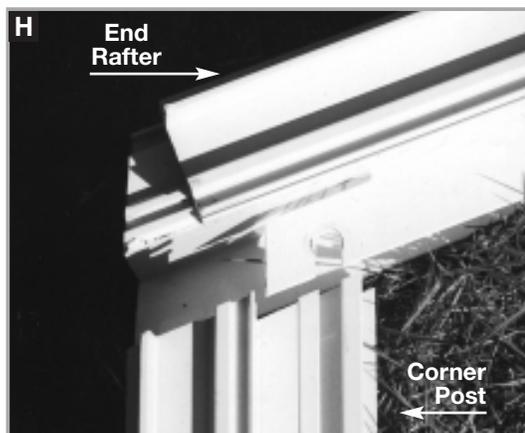
- Take all the glass bars (next to the door frame - see Pic #4 on Page 7) and bolt them to the base/sill. The angle cut should match the roof slope. (See Pic E.)

The 1" x 2" angle above the door (50" long) can now be bolted on. The 1/4" round holes should be lined up with the holes in the plates. (See Pic F.) Each end of the 1" x 2" angle has a slot punched out to accommodate the bolt that is lined up with the glass bars 24 1/2" from the center. Slide a bolt in the top of the glass bar and fasten the angle to it. (See Pic G.)

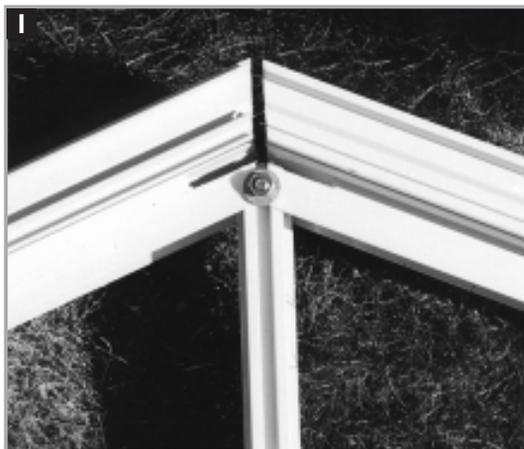


Front Gable End Assembly (contd.)

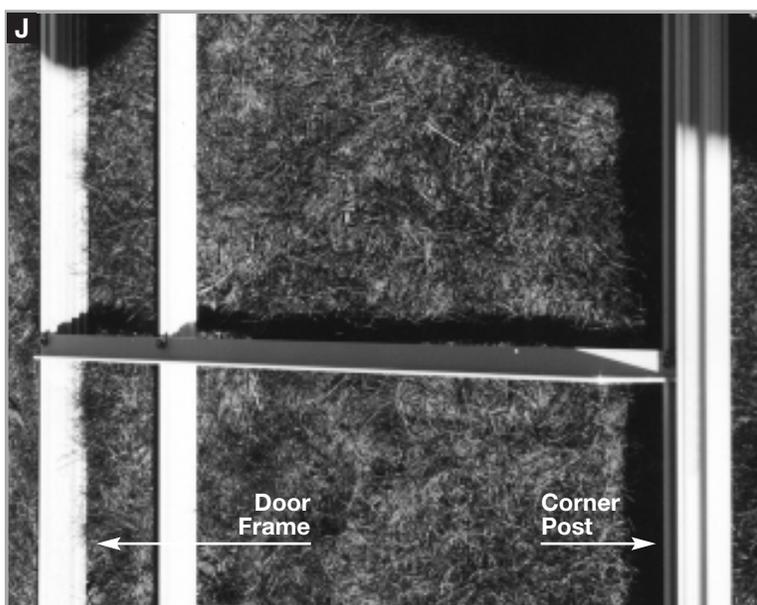
5. End Rafter - when fastening end rafters to the corner posts, leave a $1/8''$ space for the gutters to slide through. The punch marks in the end rafter will line up with end glass bars. Slide the bolts in the top of the glass bar before you put on the end rafter. (See Pic H.)



6. At this point, you can install all the end glass bars. (A smaller greenhouse will only have 1-bar above the door). (See Pic I.) The centre bar uses a $1/4''$ washer to keep the end rafters together.



7. Smaller sized greenhouses have a horizontal brace. (See Pic J.) Larger sized greenhouses will have a diagonal brace from the top door frame plate to base/sill 2" from the corner post.



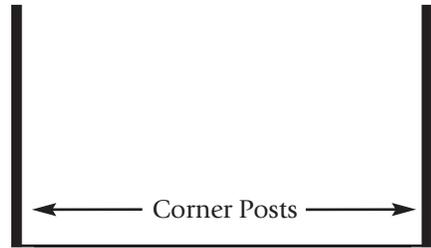


Back Gable End Line Drawing Assembly Procedure

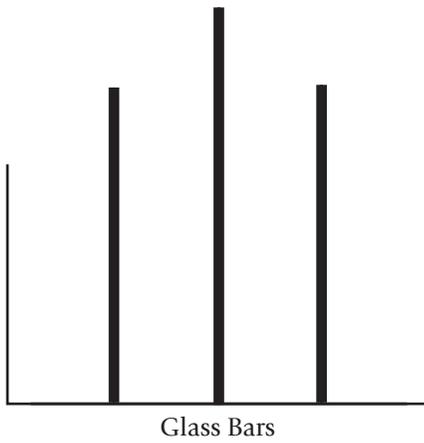
1



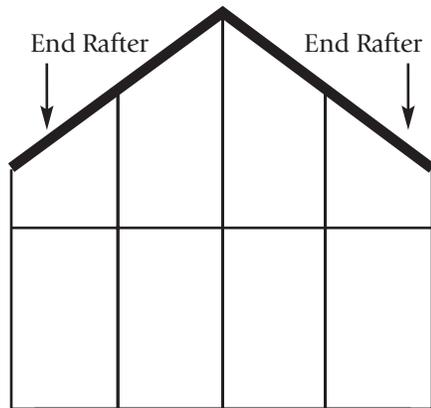
2



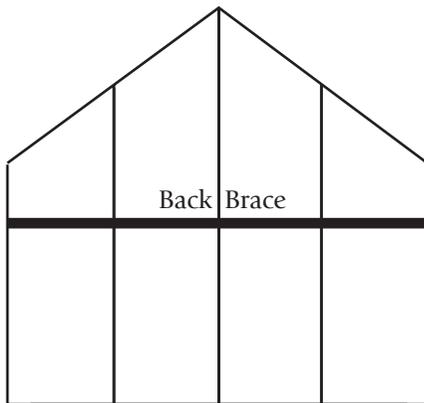
3



4



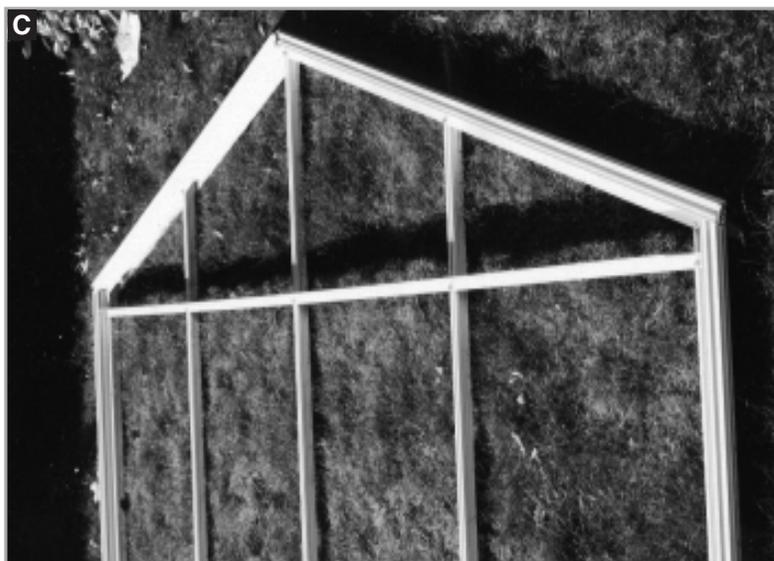
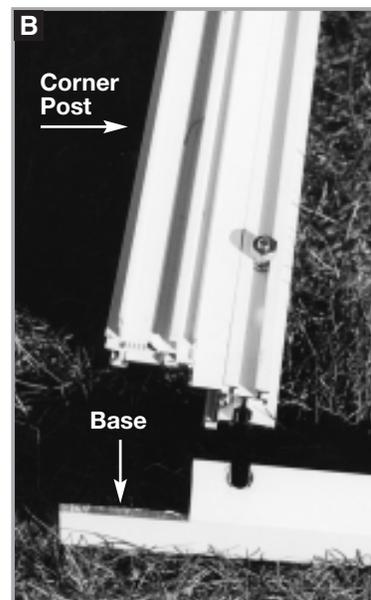
5



Back Gable End Assembly

Lay out the back pieces into the shape of the end wall. See page 11 for details and refer to the line drawing on page 12.

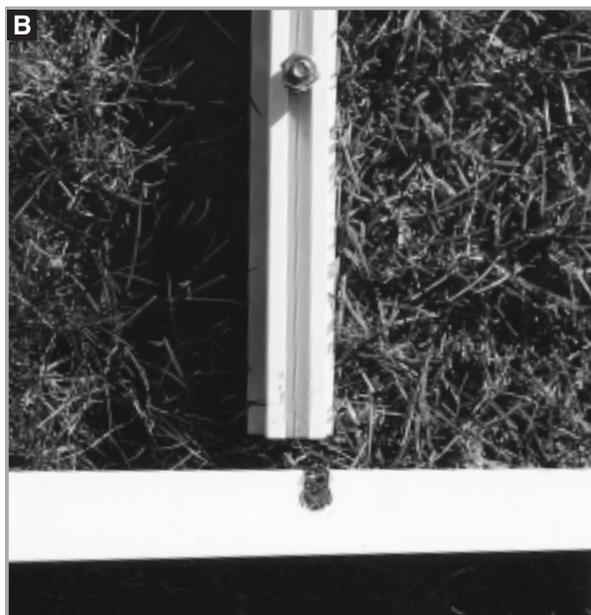
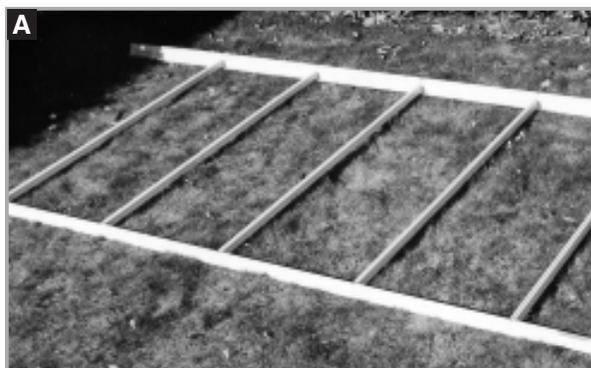
1. The 1" x 2" angle / base laying on the ground should have the 1" side (with the slot punches out) facing up. (See Pic A.)
2. Bolt the corner post onto the base angle. (See Pic B.)
3. Bolt on all the end bars to the base. Make sure that the longest bar is in the center of the back wall.
4. End Rafter. When fastening end rafters to the cornerpost, leave a 1/8" space for gutters etc. See page 10 - Pic. #5. (Also See Pic C.)
5. The angle cross brace is approx. 60" from the base bolted on with 1/4" x 1/2" bolts.



Sidewall Assembly

Lay out the sidewall with the gutter at the top - base at the bottom (See Pic A). You will notice that each sidewall glass bar has a straight and an angle cut. The straight end fits against the base (See Pic B) and the angle goes towards the gutter (See Pic C). Always face the bolt slot in the glass bar towards you.

1. Take all the glass bars and bolt them to the gutter (See Pic D). start your bars approx. 2' in from the end of the gutter and base (See Pic E).
2. Bolt the glass bars to the base.



Aluminum Frame Assembly & Installation

1. Take the assembled sidewall and stand it up on your foundation.
Note: Each end of the side base is 2" shorter than the foundation (See Pic A).

2. BACK GABLE END

Take the end wall and slide a bolt into the corner post and end rafter (top and bottom) move it down and up approx. 3" and tighten the bolts. Now stand up the end wall. Slide the gutter (sidewall) in between the end rafter and the corner post. (There should be a 1/8" space - See Pic B). By sliding the gutter in as far as it goes, the punched out slots line up with the bolt track (See Pic C). Undo the bolts and slide it into the slots and tighten up. Do the same with the bottom base (See Pic D).

3. FRONT GABLE END

Follow the same procedure as the back gable end.

4. SIDEWALL

Place the sidewall in between the front and back. You will have to push the corner/end rafter out just a little to get the gutter in.



Aluminum Frame Assembly & Installation (contd.)

5. RIDGE

For a small greenhouse, you handle the ridge by yourself. Over 12' long it be easier with 2 people. Set the ridge on top of the end rafters in the middle of the greenhouse. Push the end rafter out and drop the ridge down 2" and slide it in-between as far as it goes. The bolt track in the glass bar lines up with the punch mark in the ridge. Undo the bolt and slide it up and fasten it (See Pic E).

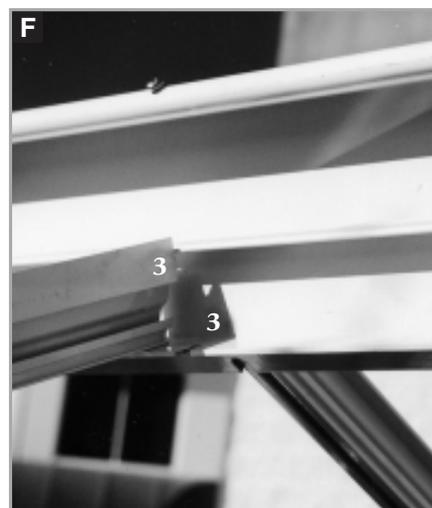


5A. TRUSS ASSEMBLY INSTALLATION

(See Appendix F).

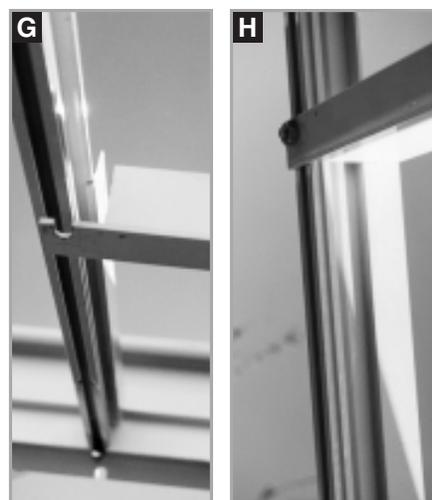
6. GLASS BAR WITH VENT SLIDERS

Each glass bar has a small vent frame slider on it. They are marked 1/2/3/4 etc. On the ridge there will be the same markings. Slide a bolt in the top and 2 in the bottom of the glass bar and tighten. Put into place with the angle cut on top. Note that the numbers are the same so it can be lined up with the slots in the Ridge and gutter. Then fasten. (See Pic F).



7. VENT FRAME BOTTOM SECTION

The vent frame bottom is now in between the glass bars that you have just installed (See Pic G). The 2" side of the angle faces towards the Ridge (See Pic H). Move the bolt up the glass bar and fasten it.



8. REMAINING GLASS BARS

All remaining glass bars can now be installed. Make sure that the top is against the ridge. Before you tighten the glass bar on the gutter, eyeball the gutter to see if it is straight. There is usually about a 1/8" space between the glass bar and the gutter.

9. Fasten the greenhouse base/sill to the foundation using #8 x 1" screws (if it is on concrete, drill holes using a concrete bit and push the plugs into the holes). If possible, seal below the base before fastening the greenhouse to the foundation. (See Page 21).

10. Your greenhouse is now ready for putting on the 1/8" foam strips. Do not put the foam strips on the base or beside the door. Only use the foam on the glass bars & gutter. (See Page 22).

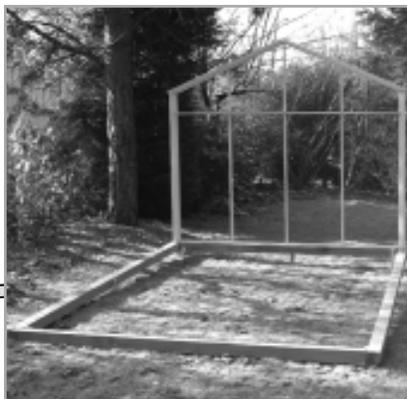
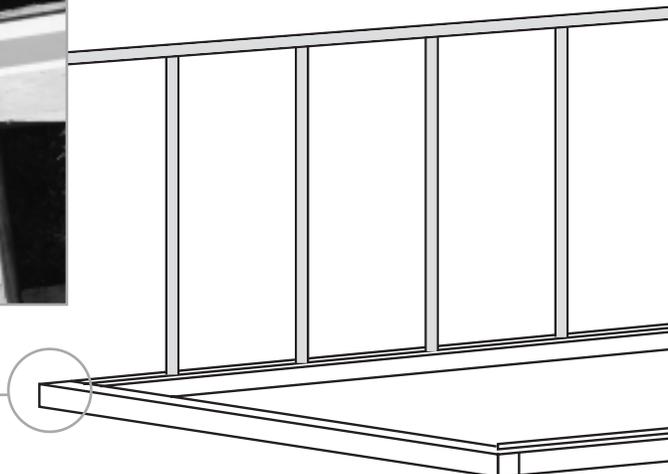
Note: Make sure the greenhouse is fastened to the foundation with 1" screws.

OPTIONALS

Side vents, intake shutters and exhaust fan installation. See Appendix A – F.

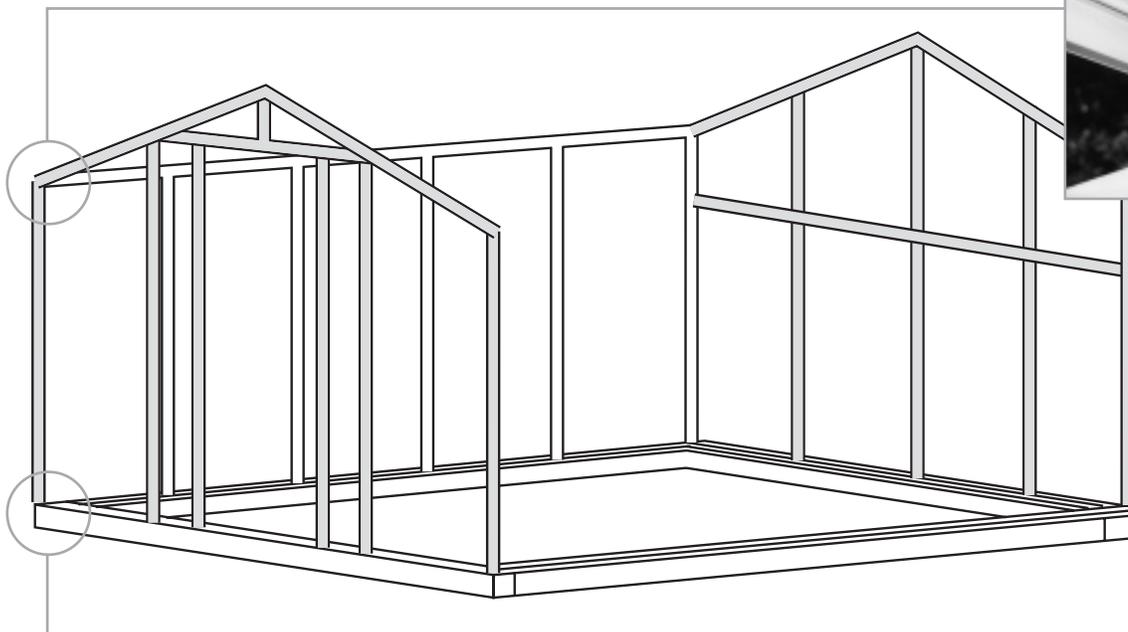
Assembly Outline

Step 1: Stand up Side Wall or Endwall

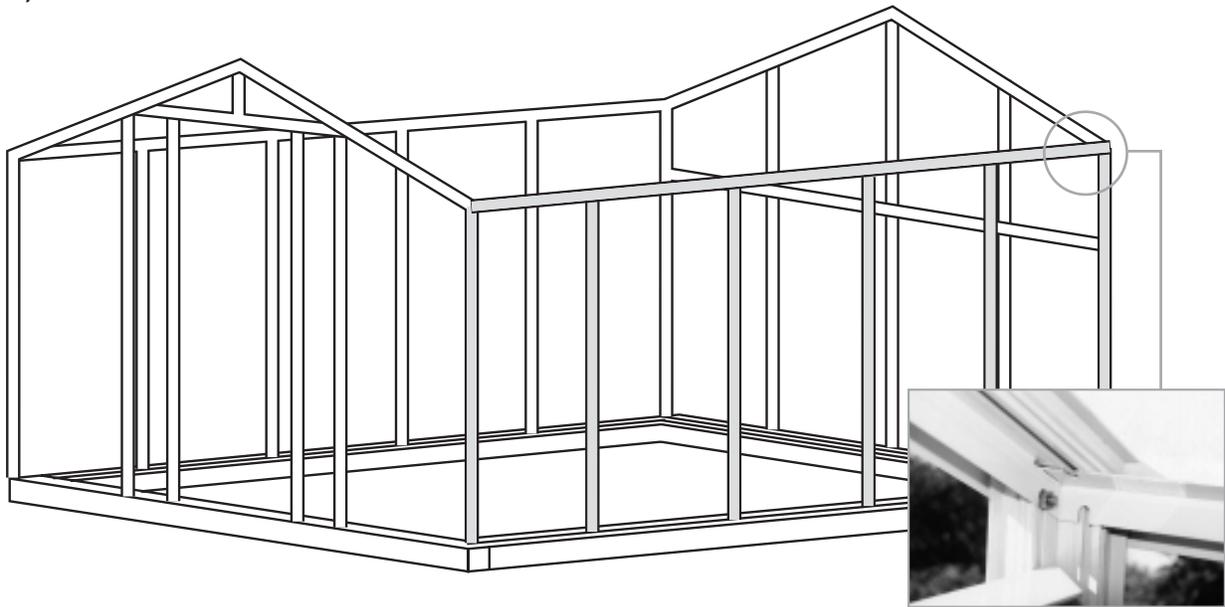


Step 2 & 3: Bolt Side Wall to Back Gable End

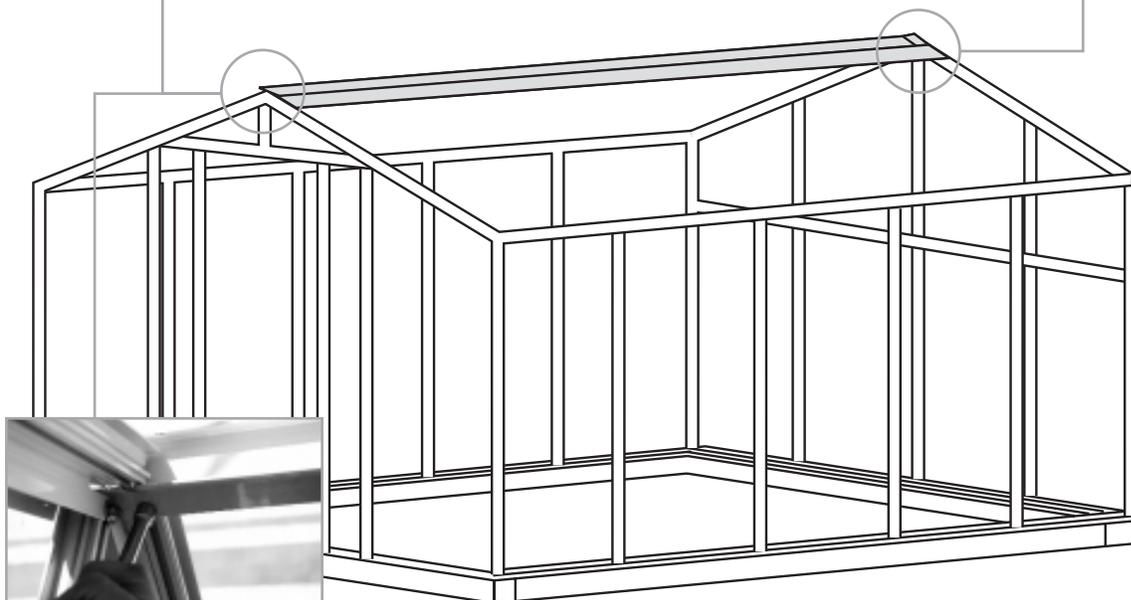
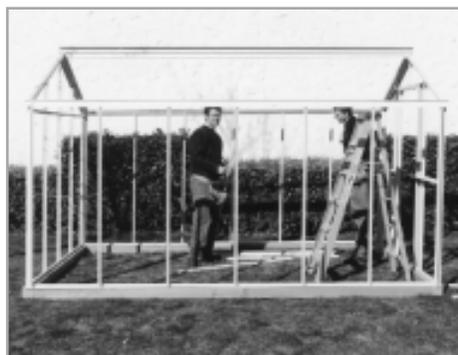
Step 3: Bolt on Front Gable End



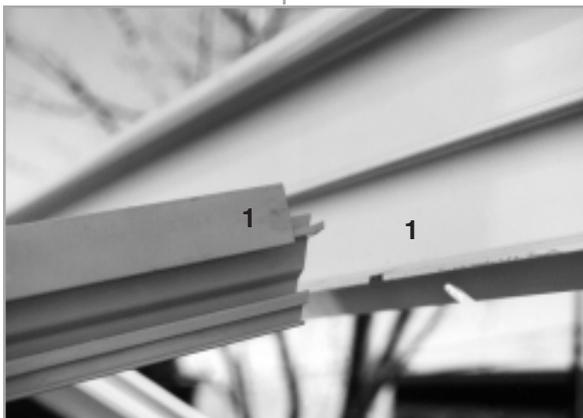
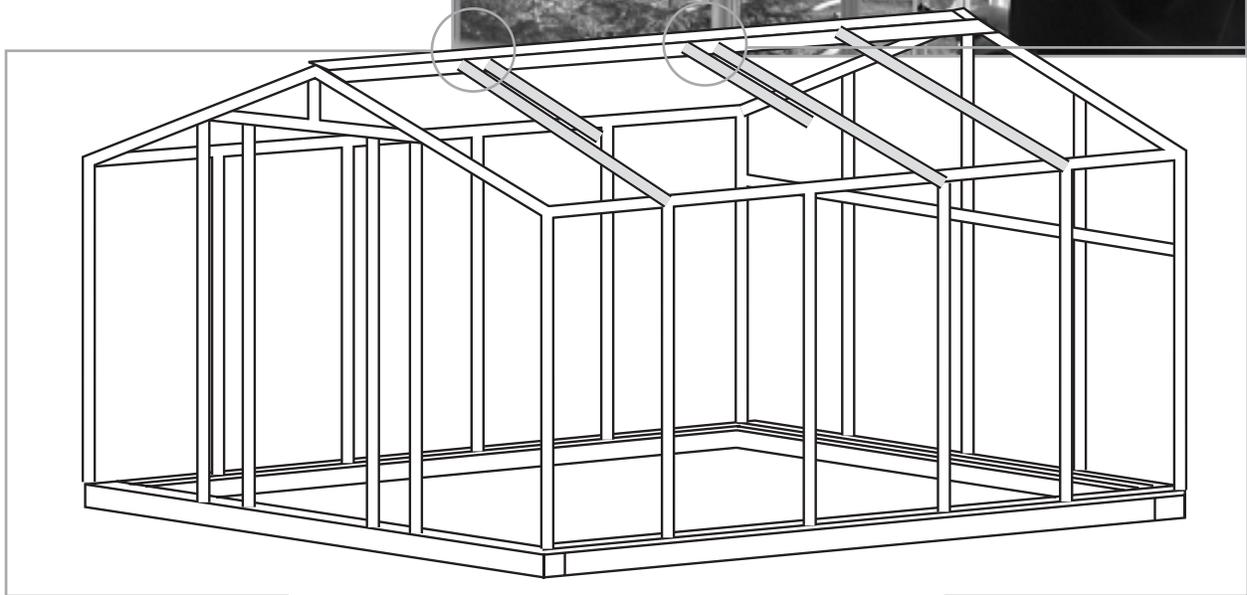
Step 4: Side Wall



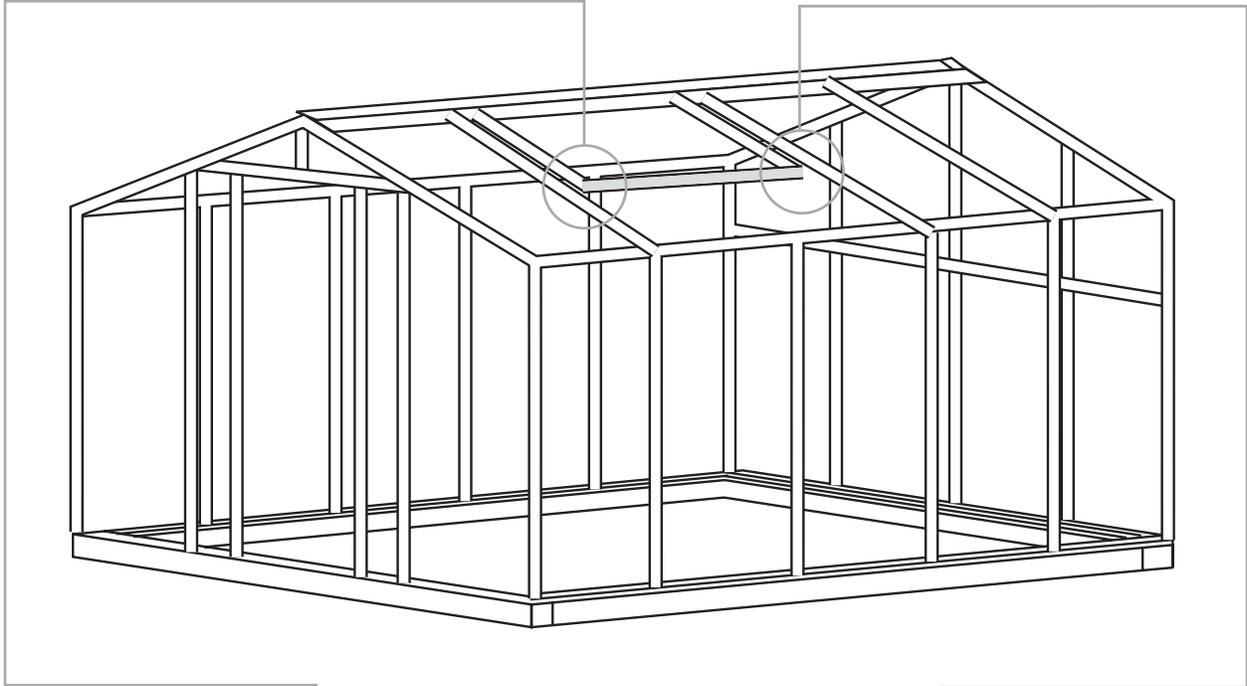
Step 5: Ridge



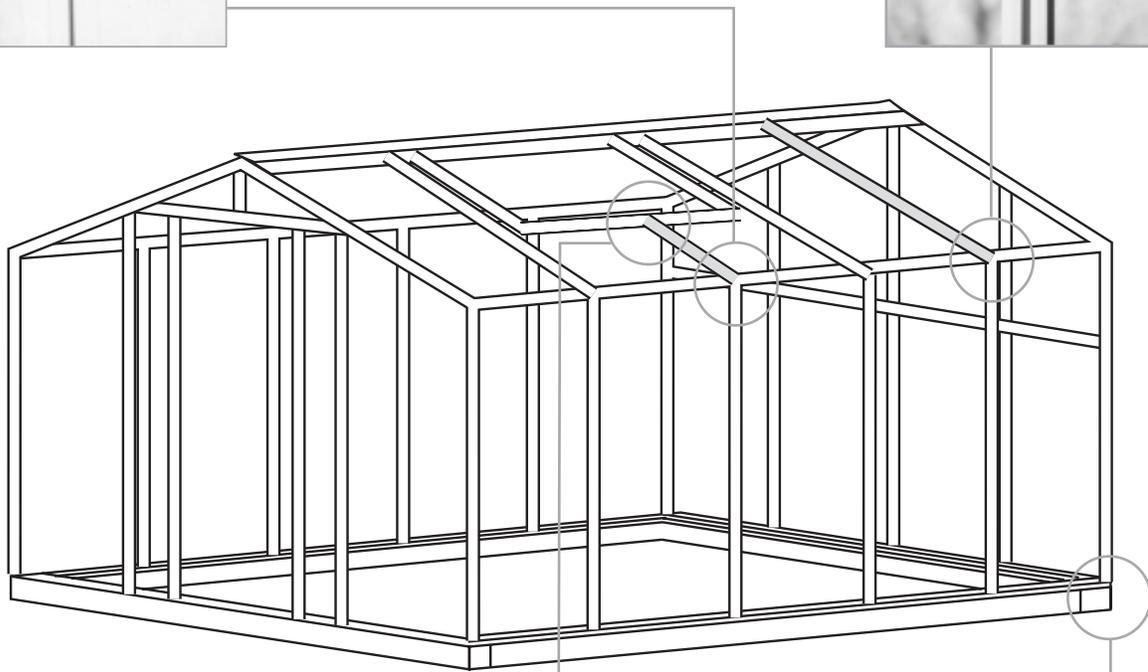
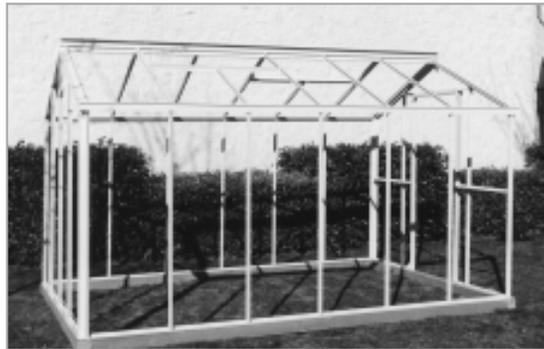
*Step 6:
Roof Glass bar
with Vent Frame Sliders*



Step 7: Vent Frame Bottom



Step 8: Install all remaining roof bars

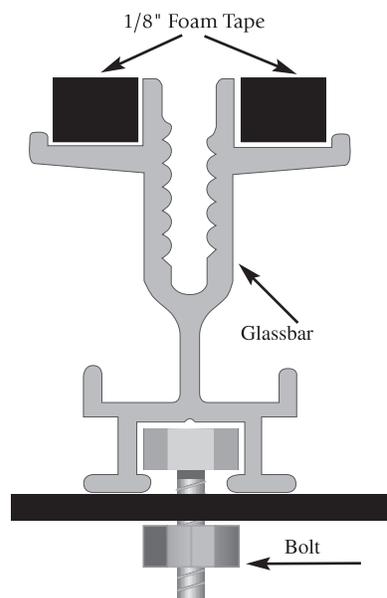
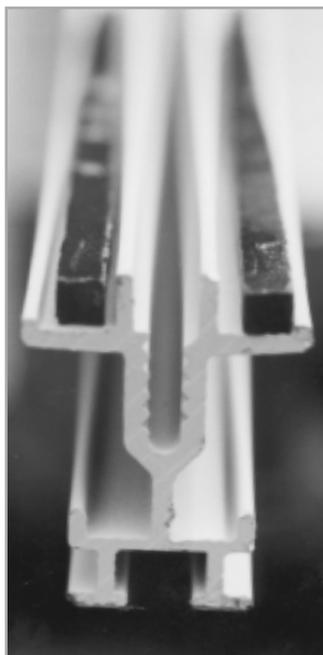


*Step 9:
Fasten the
greenhouse base/sill
to the foundation*



TAPING GLASSBARS WITH FOAM

Tape all the aluminum glassbars with 1/8" foam tape both sides. Take a roll of tape and start at one end and press on the bar. *Make sure that the aluminum is dry.* Slowly roll down the tape toward the outer edge and press it down at the same time (See Pictures). Be careful because sometimes the edge of the paper is quite sharp. Do not remove the paper until later.



NOTE:

Taping the greenhouse can be done before you put the frame together.

If the weather is bad or dark outside, you bring everything inside the garage and put the foam strips on the bars.

Make sure that the front / glass / side / roof bars don't get mixed up, it would make it much harder to put it together.

Glass & Cap Installation

GENERAL INFORMATION

Important points to consider:

- Square up (or adjust) the frame to fit the glass. If the foundation is square and level, the greenhouse will automatically be square when all the glass is in. Don't try to square up the whole greenhouse before you do the glass. Just do one side at a time.
- Always work one row across at a time.
- Don't over tighten screws ("finger tight" plus a quarter turn is sufficient).
- Position glass in between the inside edges of the bars.

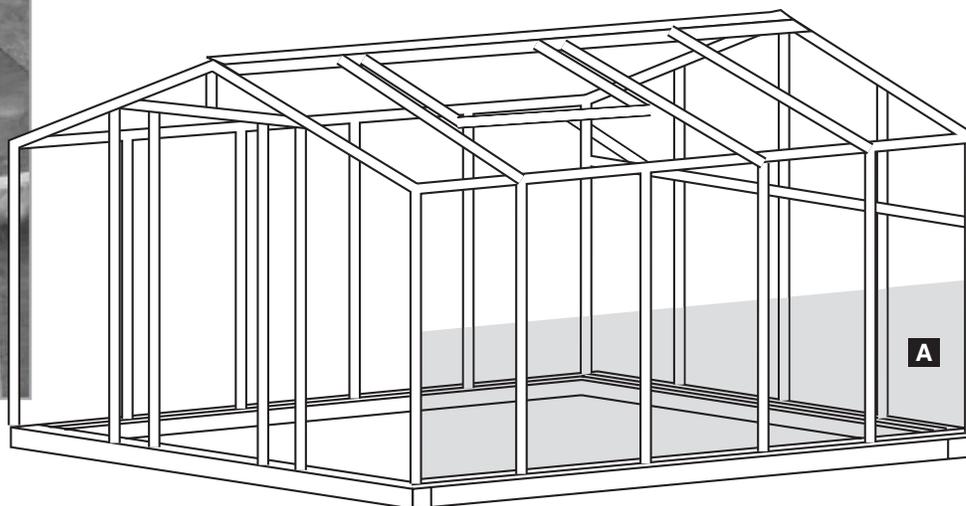
Glass comes packaged in cardboard cases. When storing glass, put it upright against a wall or post. All glass is a 3mm / 24 oz. thickness (unless it is a special order). When handling glass, put one hand on the bottom and one hand on the side. Do not hold the glass flat on your hands. When laying out the glass for your greenhouse, do not lay the glass on your lawn while the sun is shining because the glass may/will burn the grass. (The following boxes ■ indicate the picture or illustration that will assist you with your assembly.)

GLAZING

Remove all paper from the foam strips. 1

SIDEWALLS (see the glass sketch for sizes)

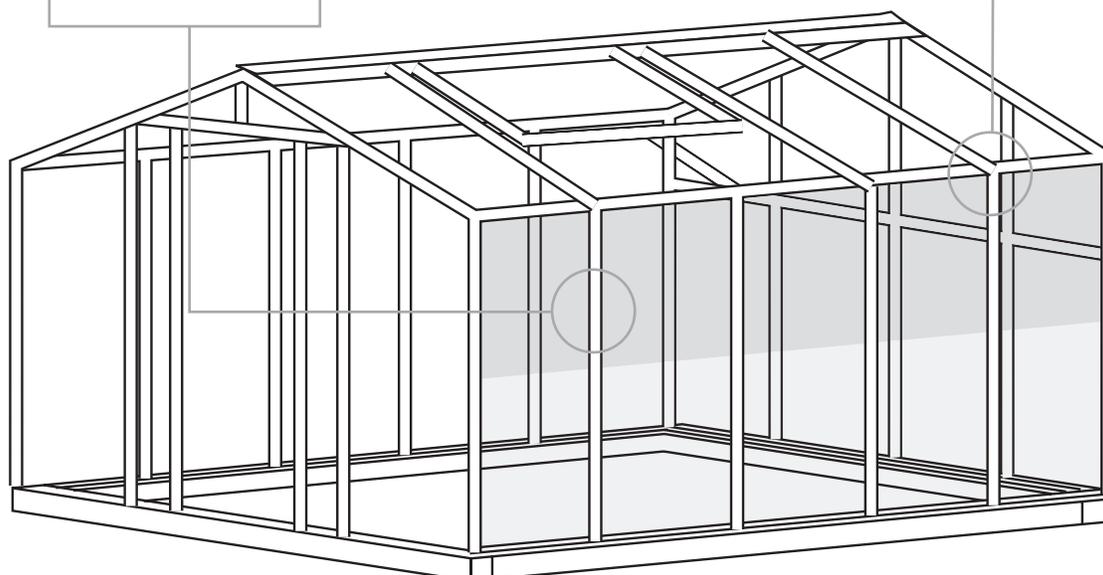
- A. Take a piece of glass and hold it along the long side. Set the 24" width of the glass on your aluminum base against the glass bar and push it gently toward the greenhouse 2. If the greenhouse is not square, push the gutter over to square it. If it is a warm day, the foam will stick to the glass and you can walk away and get your aluminum cap. The cap (see sketch for



Glass & Cap Installation (contd.)

length) is pushed against the glass. **3** Use #8 x 3/4" screws to fasten the cap to the glassbar. Hold the cap against the glass and put in your screws. When the screw hits the cap, make a 1/4" turn. In other words, *do not tighten the screws too tightly*. Also, do not put a screw in the top hole of the cap. When the first piece of glass and cap is installed, go to the next bay. Finish off the bottom row on one side only.

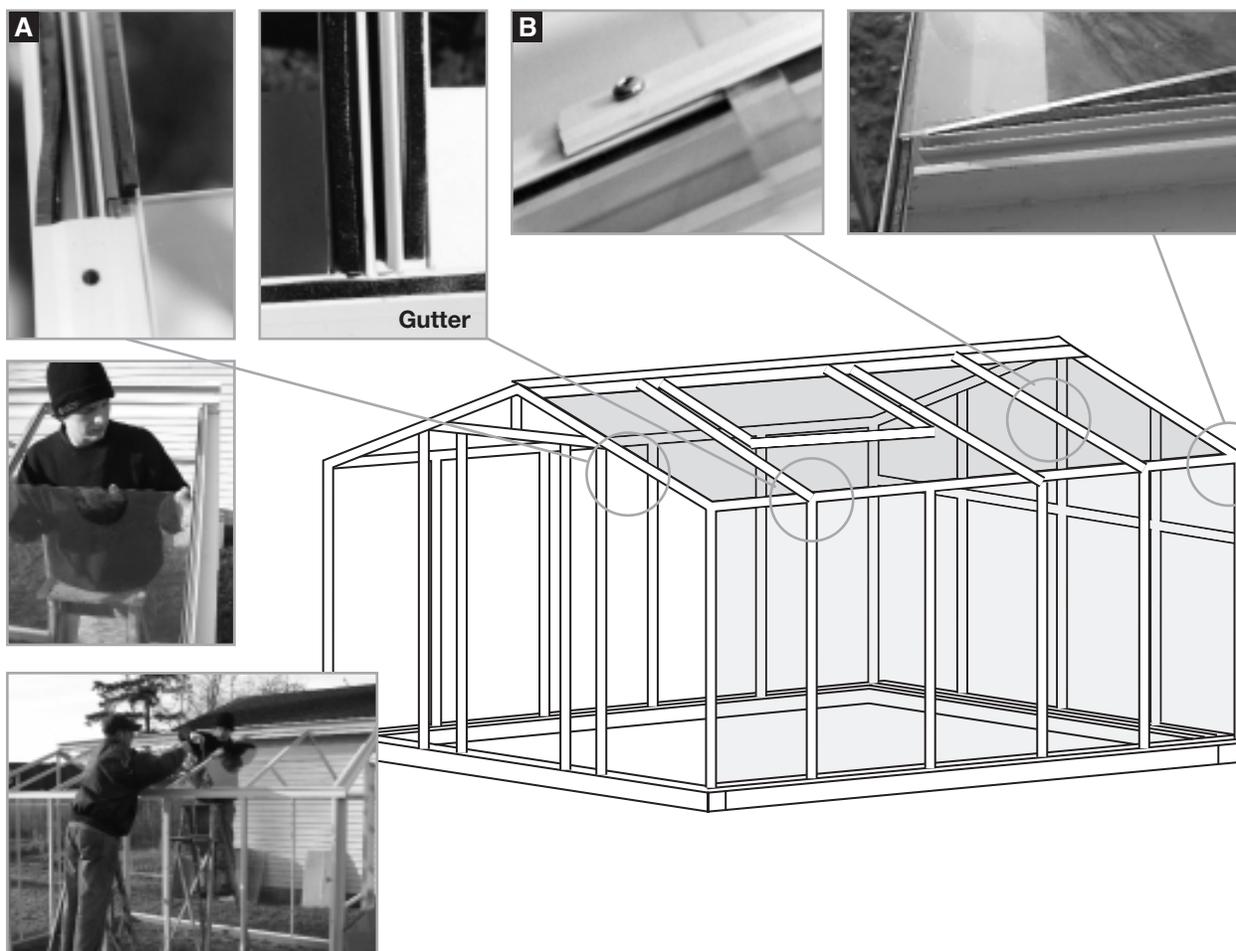
- B. Install the next row of glass, push the glass underneath the gutter and set it on top of the bottom cap **4**. Take the aluminum cap (*for length, see sketch*). The bottom hole of the second row of caps line up with the top hole of the first row of caps. Again, do not tighten the screw too tight. On a standard greenhouse, this row will finish off the sidewall below the gutter.



Installing the Roof Glass

INSTALLATION

- Install the glass by setting it in the horizontal gutter piece and letting it down slowly to the foam strip. If everything is square, level and plumb (straight), the glass should fit. If the glass does not fit - move the Ridge to either the right or left until a fit is obtained.
- Install glass on the bottom row in the roof first.
- Attach and fasten the Caps (caps are 1/2" shorter than the glass). (See Pic. A).
- Put in the second row of Roof Glass overlapping the first 1/2". Settle the glass against the cap. (See Pic. B).
- The second row of caps are 1" longer than the glass. When you put them on, the first hole in the cap lines up with the last hole in the previous cap.
- Before you lay down the second row of glass, cut a 8" (plus/minus) piece of foam and lay it against the first piece of glass and on top of the existing foam (it fills the space of the overlap).
- After you have finished the second row – the third row is installed the same way.
- Last row below the Ridge – the glass slips in underneath the Ridge flange.
- When the side of the roof is done, seal the glass below the Ridge and around the vent frame with silicone or caulking. Do the opposite side the same way.



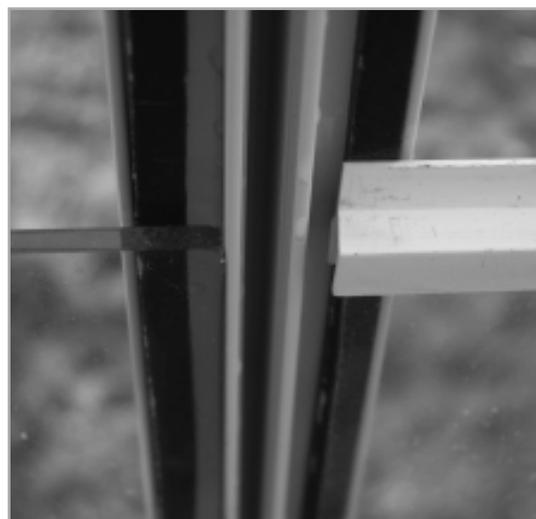
Installing Glass in the Door End

INSTALLATION

- Install the bottom row first. After setting the glass in place, attach the Glass Caps (see sketch for length).
- The second row and each succeeding row has the same size glass (as per sketch) but they overlap the previous row by 1/2" and are held in place by an Alum Cap (see Side Glazing).
- Do not caulk the bottom where the glass rests on the base. This allows for any condensation to seep out.
- The glass beside the door is pushed into the door frame. The second row of glass sits on a plastic "H" Came.
- Installing the Back Gable End Glass is the same as the front.



Note: Do not be afraid to adjust the frame to make it square with the glass.



Sealing the Greenhouse

Caulking is used for sealing aluminum to the wood / concrete base. It can also be used to fill the air gaps between the glass and aluminum frame. However, for most people, silicone is easier to use when sealing aluminum to glass. The areas that need to be sealed with silicone are:

- Below the ridge **1**
- Around the door frame **2**
- Angle above the door **3** **4**
- Around the vent frame **5**
- Beside the door frame **6**

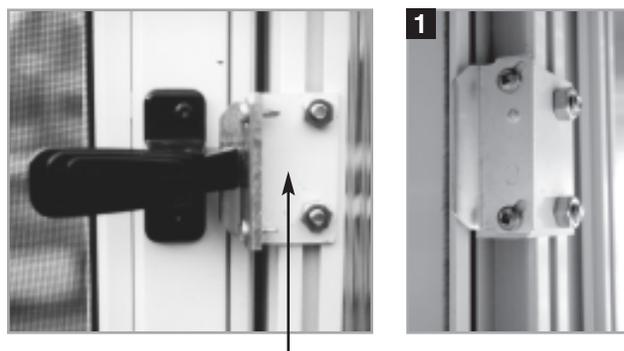


Door Installation

(Refer to the drawing.) Take the door and set it inside the door frame. Lift it up as high as possible on the hinge side and put the screws through the existing holes in the door frame. Now the door will hang by itself.

Remove the black clip from the "Z" bar and put one screw into the door frame to hold the "Z" bar. Open the door, take off the clips and put back the screws. Close the door and check that it is square. If the frame and the door are square, then fasten the "Z" bar to the frame. If not, move the "Z" bar up or down to square it. If this is not enough, loosen the bolts in the top plates and move the frame to make it square. When it is in place, tighten all the bolts.

Next install the door handle (see the instructions inside the box). To install the door catch angle, slide in two bolts into the back of the door frame. Bolt on a small angle (provided with the door handle). Face the angle towards the door, line it up with the center of the door handle, and then tighten the two bolts (see picture to the right). Take the door catch out of the door handle box and screw it on. Close the door and adjust the door sweep at the bottom of the door to eliminate potential gaps.



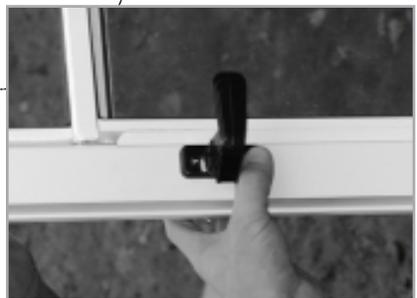
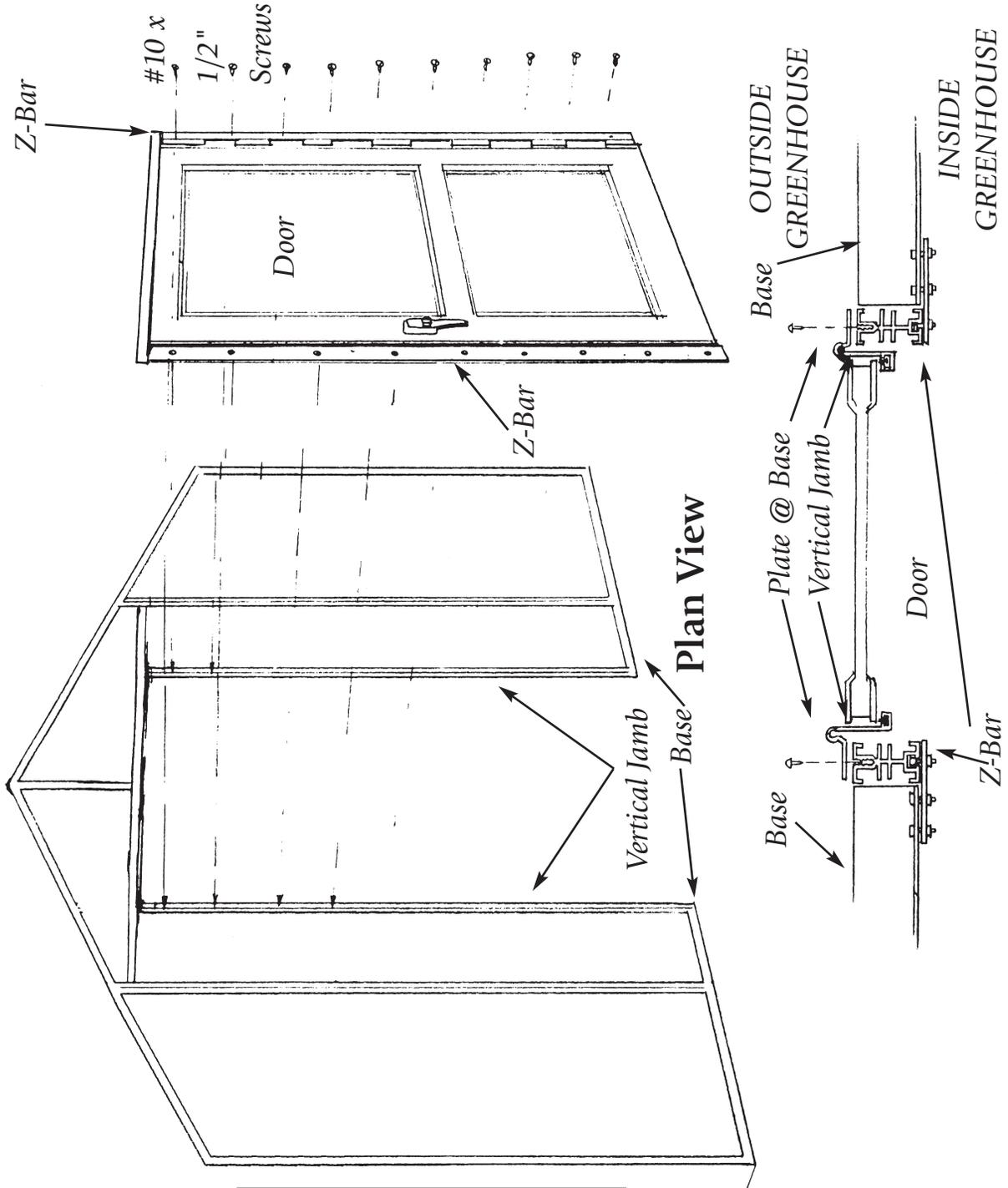
Door Catch Angle

NOTE: There are two types of manufactured doors. The door catch angle on the white door may have to be turned the opposite way as shown on picture 1.

Run a bead of silicone under the angle above the door and against the door frame. Also silicone the glass beside the door to ensure an airtight seal.



Door Installation



Vent Assembly

(See Drawing on Page 33, pictures on Page 32)

1. Lay down the vent gutter with the punches facing up towards you.
2. Glass bars with sliders are for the end. Lay them down with the bolt slot facing up.
3. Lay the vent hinge with the punches facing up towards you.
4. Slide the bolts into both ends of the end bar ($1/4" \times 3/8"$). Take the gutter and line up the bolt with the first punch, slide the bolt down and tighten it. Do the same with the hinge, the other side and center bar. Make sure that the Glass bars fit tightly into the gutter and hinge after the vent is assembled.
5. Turn it over and square it up.
6. Put the $1/8"$ foam on the Glass bars and Gutter.
7. Take the glass and slide it up into the hinge track. Drop it down on the gutter. Do the same with the next piece of glass.
8. Take the caps and lay them on the bars, center them and screw them on with a $3/4"$ screw.
9. Take the silicone gun and seal where the glass slides into the hinge.

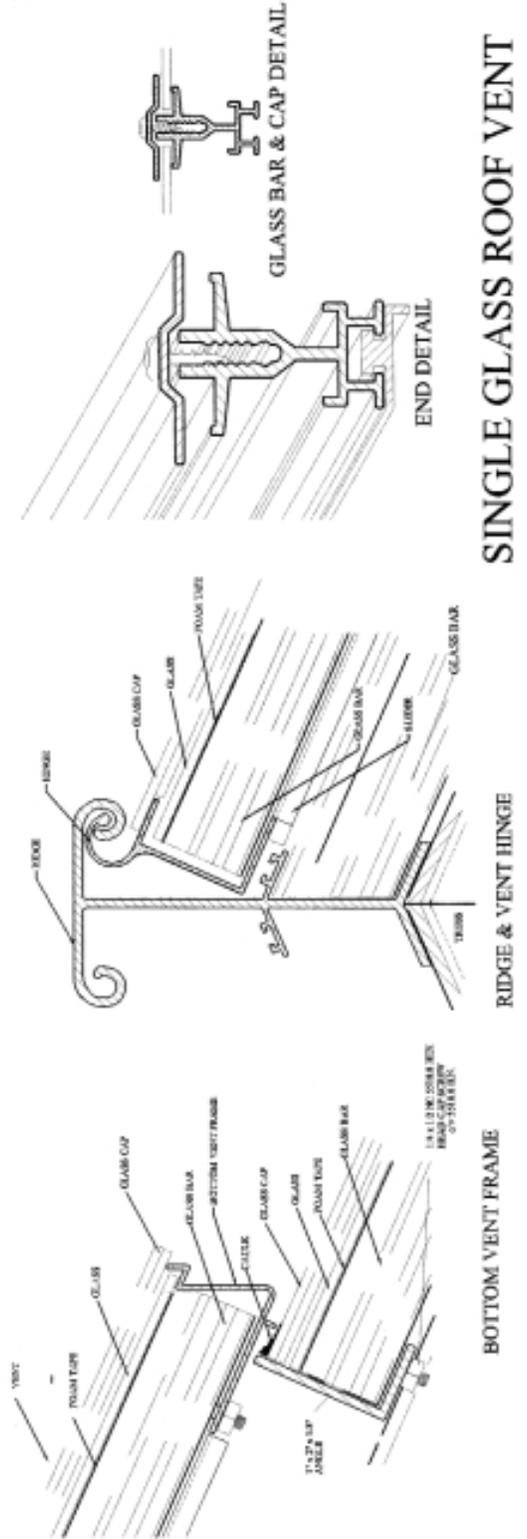
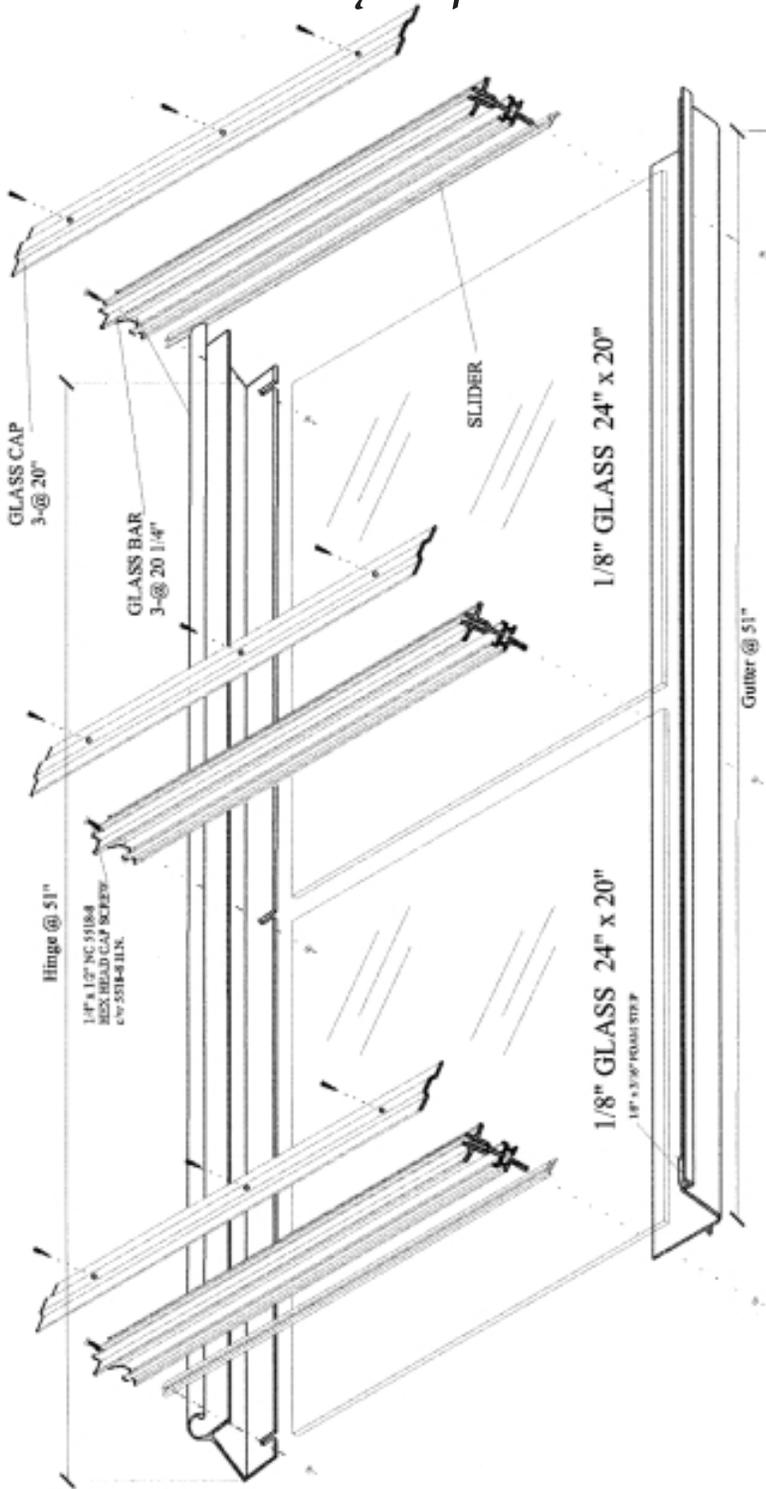
VENT INSTALLATION

Take the vent and slide it into the end of the ridge (See Pic. **A**).

After you remove the screw in the ridge, push it into place and put the screw back in (See Pic **B**). Now attach the manual opener. (See Pic **C**.)



Vent Assembly Exploded View

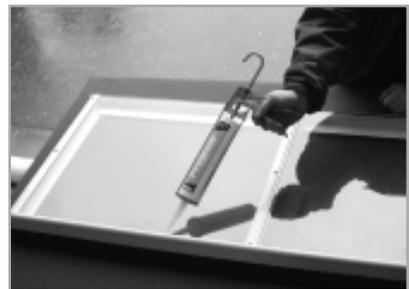
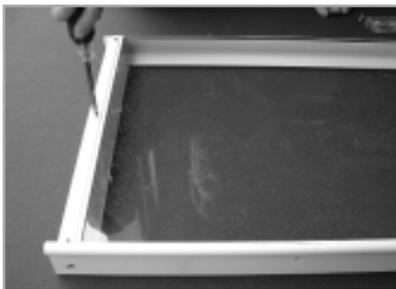
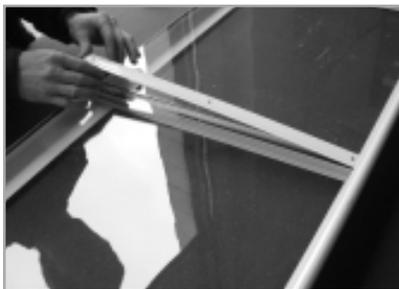
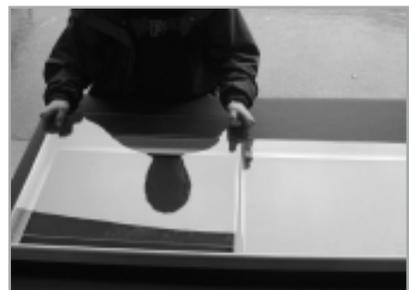
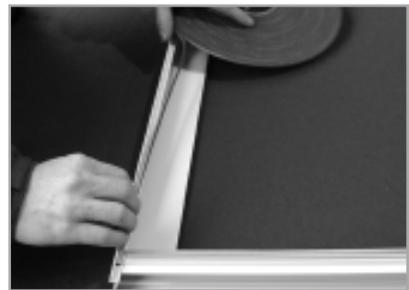
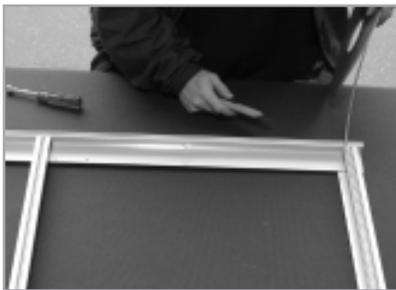
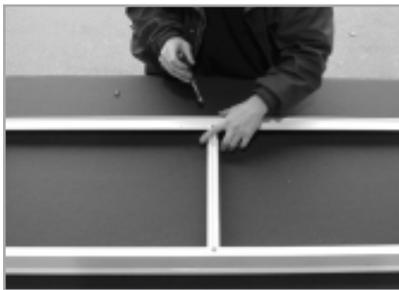
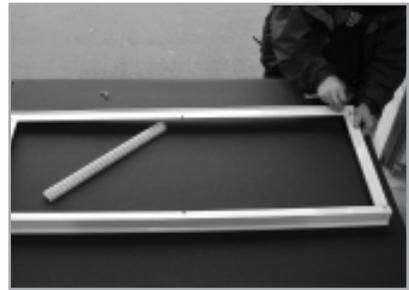
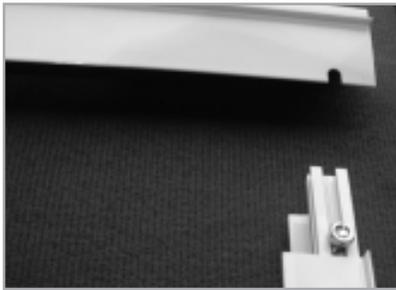
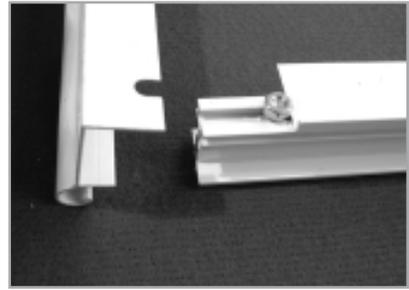
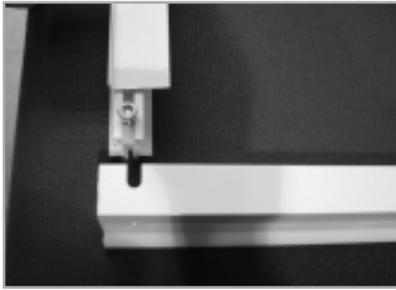


SINGLE GLASS ROOF VENT

RIDGE & VENT HINGE

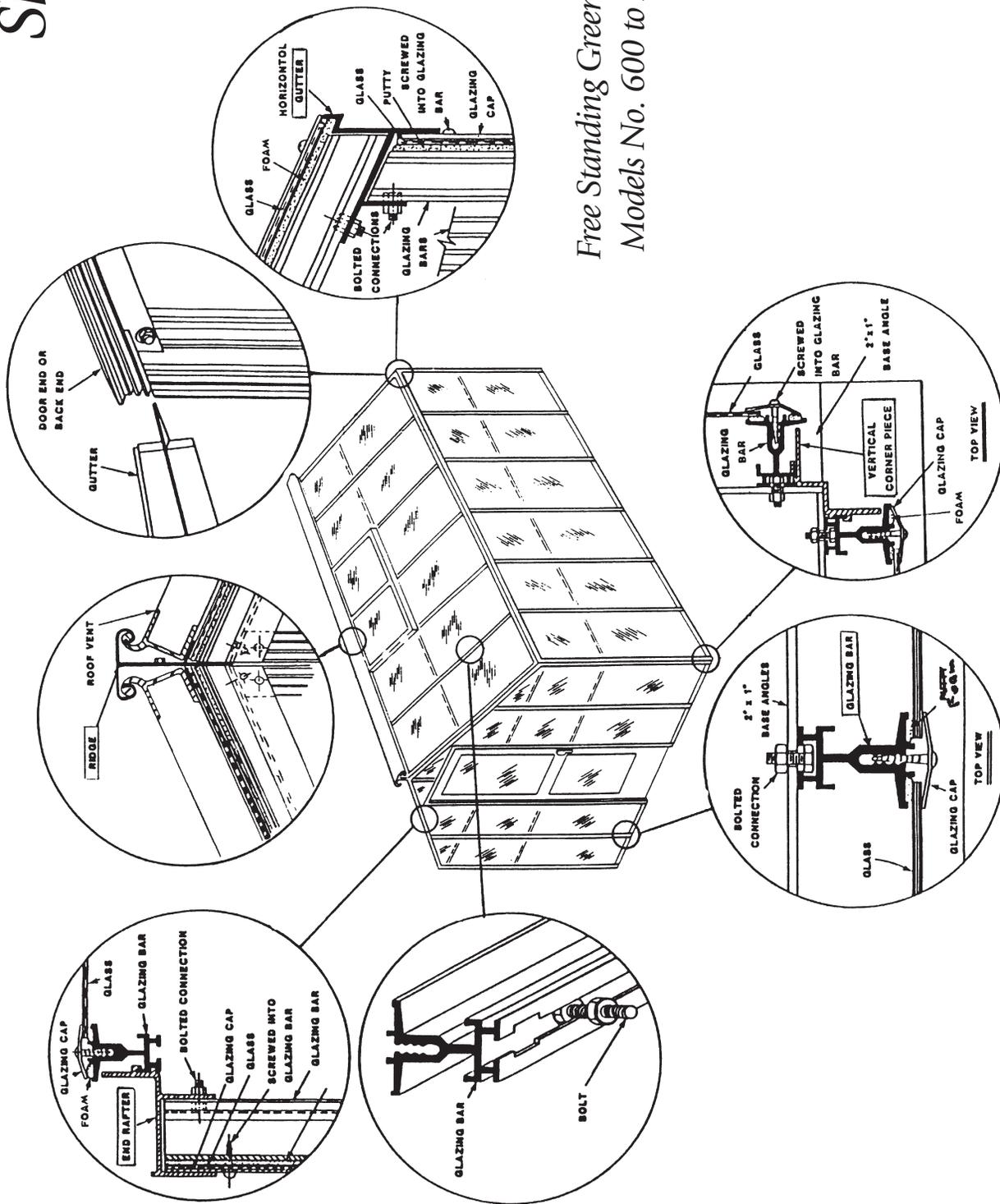
BOTTOM VENT FRAME

Glass Greenhouse Roof Vent Details

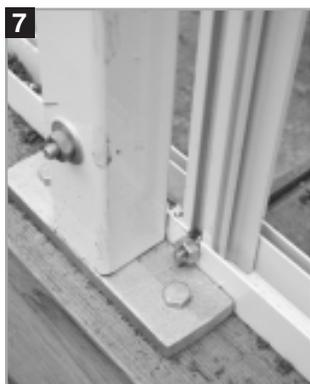
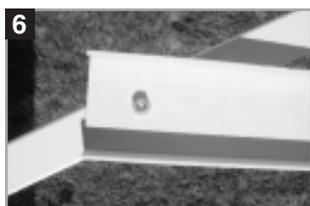


Sketches

Free Standing Greenhouse Models No. 600 to 2000



Appendix A – Truss



1. TRUSS ASSEMBLY

(This section is to be used only for greenhouses that are over 14' long.)

Trusses are usually installed after the sides, base, front, back and ridge are bolted together. Make sure that the greenhouse is temporarily braced (*see 4A on Aluminum Frame Assembly*).

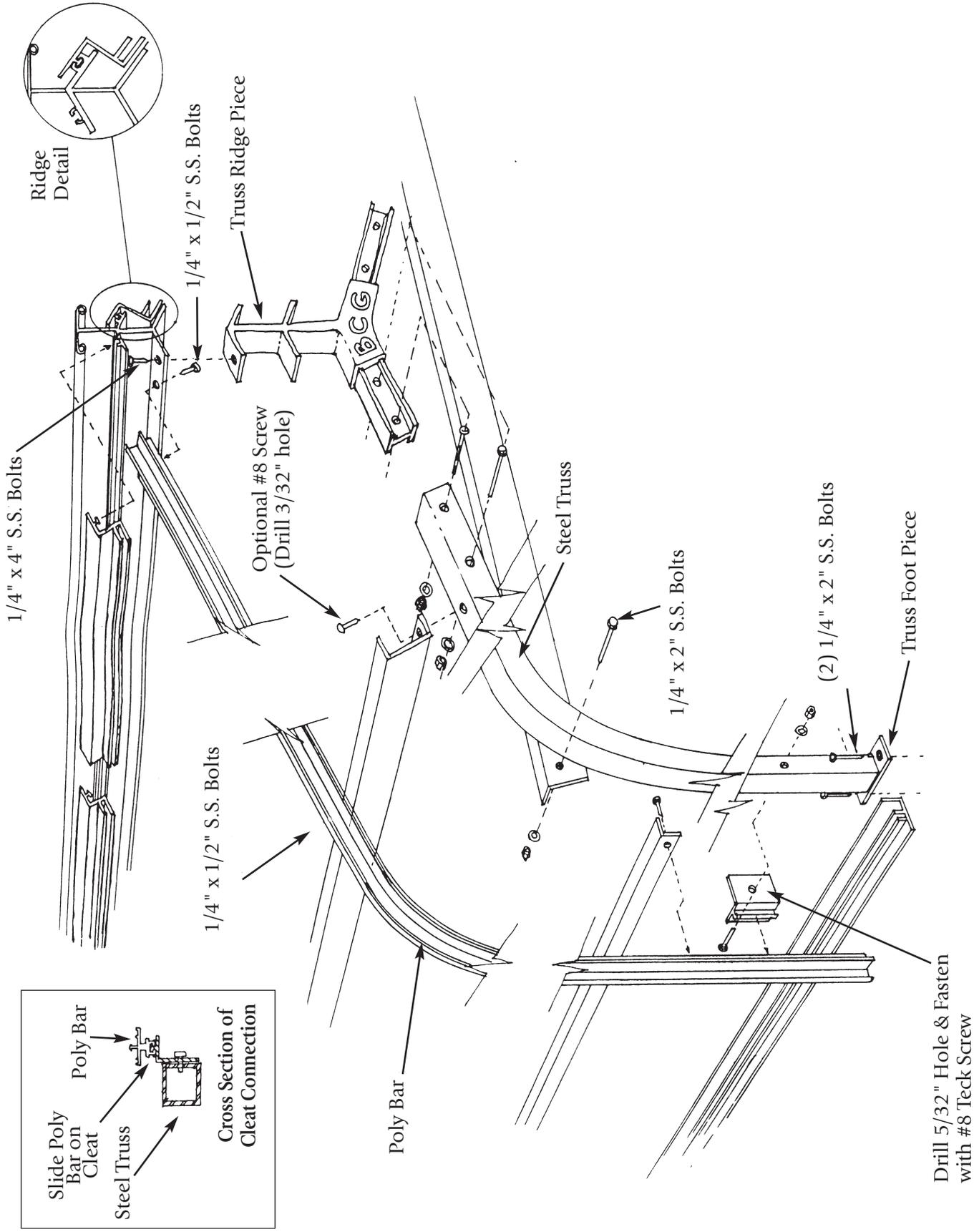
- A. Lay the truss piece in the shape of an end wall.
- B. Slide the center pieces into the top of the truss and bolt them together. **1**, **2** and **3** (*lean to models do not have a center piece – see next page*).
- C. Slide the truss feet into the bottom of the truss and bolt them together. **4** and **5**.
- D. Bolt on the cross brace (*if required*) **6**.

2. TRUSS ASSEMBLY & INSTALLATION (IF REQUIRED)

The next step takes two people, one on each side. Carry the truss to the center of the greenhouse and put the feet on your foundation between the side base/sill **7**. Lift the top of the truss towards the ridge and bolt it on **8**. Use the notch on either side of the center. There are three notches in the ridge because if the glassbars have already been installed with the truss bracket facing one way, you can bolt the truss to either notch without having to turn the truss bracket around. Sometimes the installers put in all the glassbars first and slide the truss bracket in beforehand.

Remove the truss bracket from the truss. (*It may also be in a plastic bag.*) Unbolt the bar from the base. Slide the truss bracket into the bottom of the glassbar (*long bar*) **9** & **10** and slide it to the place where there is a 9/64" hole drilled into the truss. Fasten it with a screw. If the hole does not line up, you may have to drill a new hole in the truss bracket **11**. Do this after all the glass bars have been bolted together. To fasten the truss to the foundation, use 1/4" x 2" leg bolts.





Ridge Detail

1/4" x 4" S.S. Bolts

1/4" x 1/2" S.S. Bolts

Truss Ridge Piece

Optional #8 Screw
(Drill 3/32" hole)

Steel Truss

1/4" x 2" S.S. Bolts

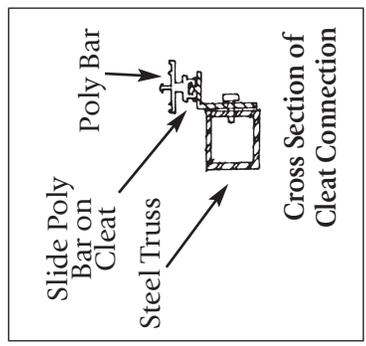
(2) 1/4" x 2" S.S. Bolts

Truss Foot Piece

1/4" x 1/2" S.S. Bolts

Poly Bar

Drill 5/32" Hole & Fasten
with #8 Teck Screw



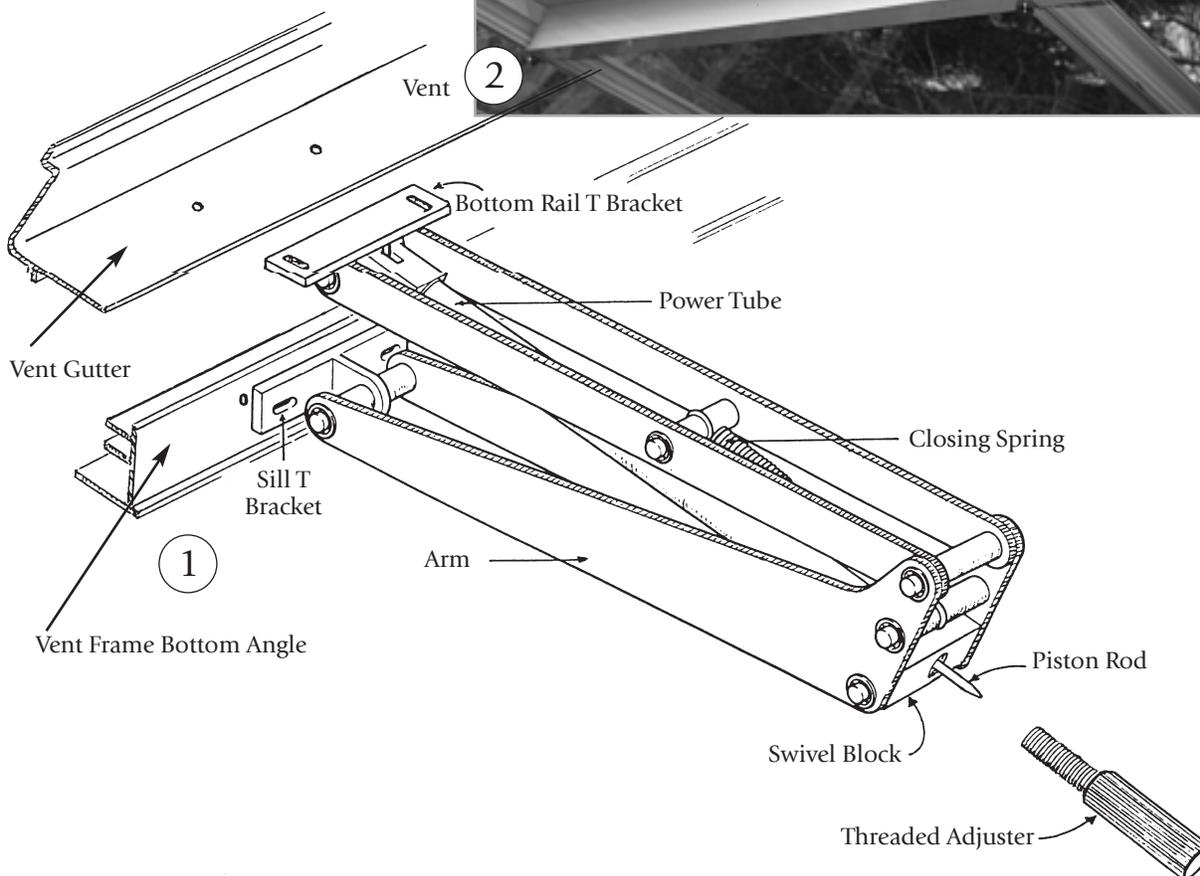
Appendix B – Vent Opener

INSTALLING THE BAYLISS AUTOMATIC VENT OPENERS

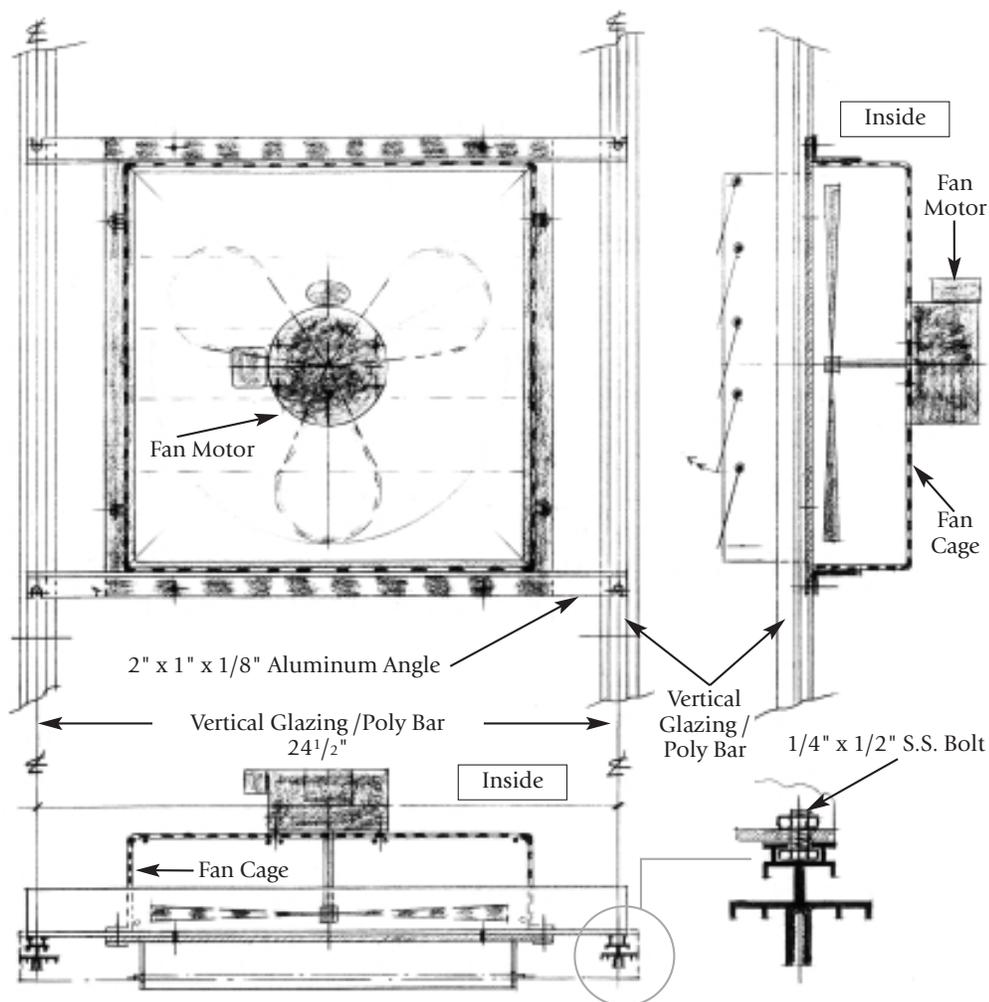
Detailed instructions are included in the box with the control (there are a few extra parts).

Use #8 stainless steel screws to fasten the Bayliss and the vent sill (1) and the vent (2). All holes are already drilled.

After the Bayliss is fastened in place, install the threaded adjuster into the swivel block. This is made easier by lifting the vent with one hand until the piston rod only projects 1/2" through the swivel block.



Appendix D – Exhaust Fans

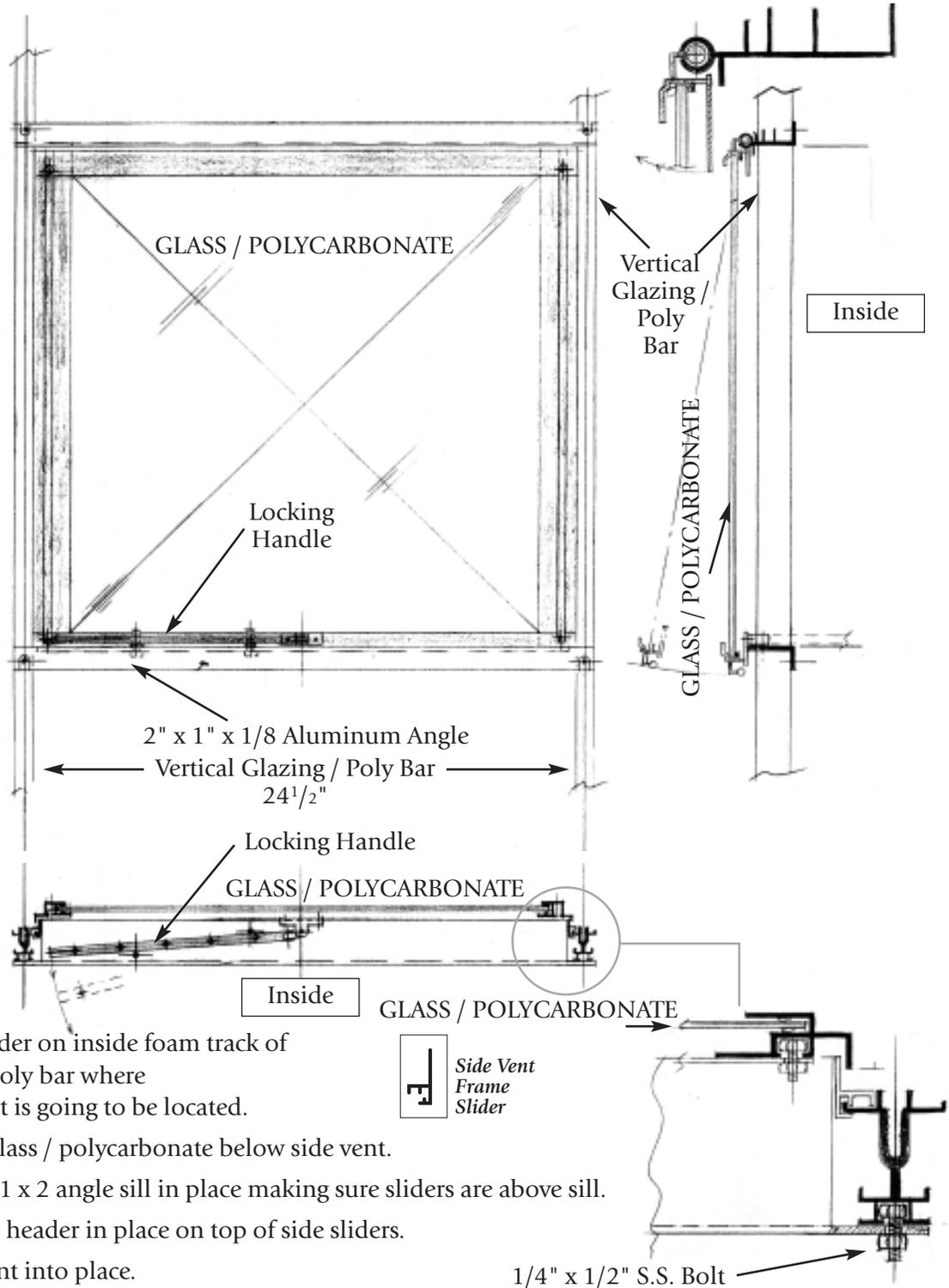


- Slide bolts into vertical bars beside fan bottom.
- Temporarily tighten.
- Insert fan in square cutout of acrylic piece.
- Slide bolts into slots on angle and tighten
- Seal around shutter on outside.



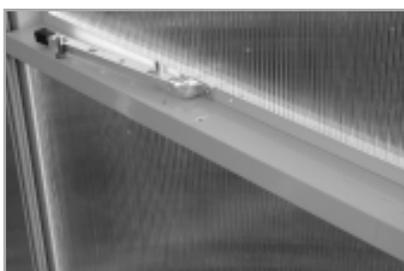
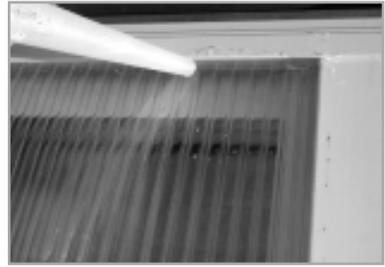
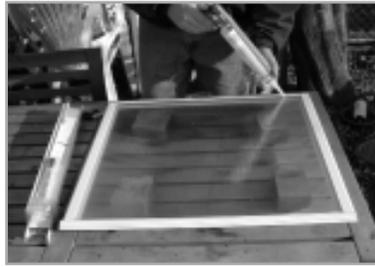
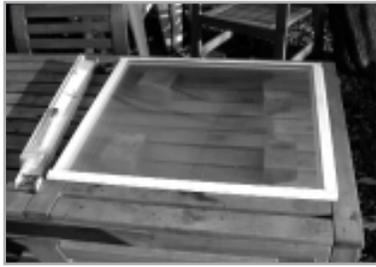
Appendix E – Side Vent

GLASS OR POLYCARBONATE SIDE VENT ASSEMBLY



1. Slide slider on inside foam track of glass / poly bar where side vent is going to be located.
2. Install glass / polycarbonate below side vent.
3. Bolt on 1 x 2 angle sill in place making sure sliders are above sill.
4. Bolt top header in place on top of side sliders.
5. Slide vent into place.
6. Install automatic or manual opener.

Appendix E – Side Vent CONTINUED



Appendix F – Glass Louvre

GLASS OR POLYCARBONATE GLASS LOUVRE ASSEMBLY



Appendix G – Polycarbonate Panels & Cap Installation

GENERAL INFORMATION ABOUT HANDLING POLYCARBONATE

All polycarbonate sheets are covered with a thin sheet of plastic on both sides to prevent the sheets from becoming dirty and scratching during handling. One side is a clear plastic while the other side is blue or some other colour, depending on the manufacturer. This latter side should be installed so that it faces out. (**VERY IMPORTANT: The sheet is marked to indicate which side should face out.**)

Before you begin installing, lay out the sheets lengthwise so that it is easier to take the one you want to install. Do the same with the capping.

Remove all the paper on the foam strip on the greenhouse before you begin installing the panels. If the weather is warm and sunny, the foam strips will be sticky. Take a trigger spray bottle and fill it with soap and water. Just before you install the panels, spray the foam lightly so that the panels can be moved around.

(Do not store polycarbonate bundles outside in the sun. Instead, store them in a cool dark place, such as a garage, until you are ready to use them.)

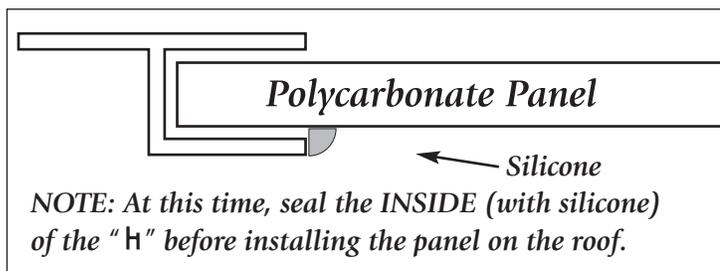
ROOF POLYCARBONATE PANEL INSTALLATION

NOTE: When you install the roof panels, start on the far side of the roof vent opening. Work towards the vent opening. When installing the last pieces in the roof you can reach it through the vent opening and do not have to move your ladder outside.

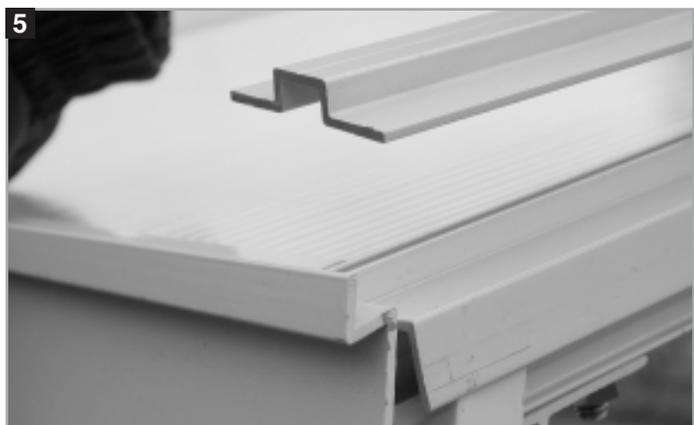
Start with the roof panels. Peel off the plastic. (See Picture 1, page 21) Remember to mark the corner so that you know which side is out (The blue plastic indicates the outside; the clear plastic indicates the inside).

Put an aluminum "H" on the bottom of the sheet (Picture 2, page 21). Then slide the panel into the top track (Picture 3) and the bottom of the panels with the "H" into the gutter. The long leg of the "H" faces outside (Picture 4). (The gutter should have NO foam on the ledge where the lip of the "H" rests) If the Poly Bars do not line up with the panel, move the greenhouse ridge toward the front or back until the bars line up. This "squares up" the roof section. Spray the foam if it is sticky. The shorter pieces should be placed under the vents. Finish the one side of the roof.

Take the cap, hold it against the panel and position it in the center of the Poly Bar (Pictures 5, 6 & 7). Use #8 x 1/2" screws and screw it on the Poly Bars (You could use a portable drill with screwbit to do this job, just don't make it too tight). Continue to the next panel and follow the same procedure.



Appendix G – Polycarbonate Panels & Cap Installation CONTINUED





At this point, stand back and enjoy your workmanship.

*Your Traditional Greenhouse
should now be closed in and ready for use.*

Congratulations!