

# Home Harvest 4' x 6' Greenhouse Panel Kit: Technical & Install Guide

## Product Description:

Our greenhouse kits were created for the experienced DIYer who prefers customization over cookie-cutter solutions. With easy-to-follow plans, a detailed cut list, and high-quality polycarbonate products —you can build a greenhouse tailored to your needs. Choose your lumber type, paint or stain to match your style, and design your own space. The benefits of owning a greenhouse are numerous: Extend your season. Expand your harvest.



This kit includes detailed greenhouse plans and specifications, a lumber cut list, hardware list, tools list, multiwall polycarbonate panels and install components, step-by-step panel installation instructions, illustrations, and photos to help you build your dream greenhouse. **LUMBER AND HARDWARE IS SOLD SEPARATELY.**

AmeriLux International offers a 10-year prorated material warranty for the 6mm polycarbonate structured sheets only. Because lumber and hardware are not included with the Home Harvest 4'x6' Greenhouse Panel Kit, they are not warranted by AmeriLux International. Please check with manufacturer for warranty info.

Please read the following installation instructions **BEFORE** installing polycarbonate greenhouse panels. Installing the panels incorrectly may result in poor product performance and/or void the manufacturer's warranty. The components supplied with this kit are for a 4' x 6' wood structure. **ADDITIONAL SET OF HANDS NEEDED TO ASSIST WITH INSTALL.** Working with another person will make the installation of the greenhouse panels easier. For any product or installation questions, please call 888-602-4441 or send an email to [info@amerilux.com](mailto:info@amerilux.com).

## Structural Design Guidelines

### Local Building Codes:

- Make sure to contact your local municipality to see if there any restrictions, regulations, or permits needed for building a greenhouse in your area. In addition, check for any underground utilities such as gas, telephone, cable, or sprinkler lines before digging.

### Prepare Foundation:

- Choose a sunny location with good drainage that is protected from strong winds. If your desired location isn't flat, level it out. Orient your greenhouse optimally so it will get maximum sunlight.
- We recommend your greenhouse base be anchored to a wood post foundation, concrete pier foundation, or concrete slab foundation. Reference greenhouse plans for residential applications.

### Build Wood Structure:

- Cut lumber and assemble the greenhouse frame according to the provided greenhouse plans and specifications. Make sure to take accurate measurements before making the cuts. Secure frame with exterior screws rated for use with treated lumber. Double-check that the frame is square and level before installing polycarbonate greenhouse panels.
- Cut lumber and assemble the wood frames for the windows and doors according to the provided greenhouse plans and specifications.
  - o As noted on Page 1 of the drawings, **the installation guide provides an 'optional alternative' for making the door and window stops.** Before cutting lumber, determine which option to use based on your carpentry skill level and desired finished look.
- In lumber, 'nominal size' (2x2 or 2x4) refers to the thickness and width of the wood before it's dried and planed, while 'actual size' is the finished size after the wood is processed. The greenhouse plans included with this kit have taken this lumber size difference into consideration.

## Lumber Materials List

### 2-in x 4-in Pressure Treated Lumber (Nominal: 2 x 4, Actual Size: 1-1/2 x 3-1/2)

- (3) Base: 2" x 4" x 8'
- (6) Front Wall: 2" x 4" x 8'
- (6) Back Wall: 2" x 4" x 8'
- (9) Side Walls: 2" x 4" x 8'
- (6) Roof: 2" x 4" x 8'

### 2-in x 2-in Pressure Treated Lumber (Nominal: 2 x 2, Actual Size: 1-1/2 x 1-1/2)

- (3) Front Wall: 2" x 2" x 8'
- (1) Back Wall: 2" x 2" x 8'
- (4) Door/Windows: 2" x 2" x 8'

### 2-in x 6-in Pressure Treated Lumber (Nominal: 2 x 6, Actual Size: 1-1/2 x 5-1/2)

- (1) Roof: 2" x 6" x 8'

### As Noted on Drawing: Front Wall Assembly (Page 1, Number 3)

#### Lumber needed if using 'optional alternative' for the Door/Window Stops (Cut from 2x2 scraps)

- (2) Door Frame Stops: 2" x 2" x 6"
- (4) Window Frame Stops: 2" x 2" x 6"
- (2) Window Ventilation Stops: 2" x 2" x 16" (Wind Braces)

### Exterior Grade Wood Screws (Recommended Framing Fasteners)

- (5lb box) #9 x 2-1/2" Phillips Flat Head (1/8" drill bit for pilot hole)

**NOTE:** Use this as your 'lumber yard' shopping list. Reference drawing for lumber cut sheet. (Pg 10) Numbers used for lumber sizes when you buy at your home improvement store are the 'nominal' lumber dimensions.

## Polycarbonate Materials List

### 6mm Clear Polycarbonate Panels

- (1) 23.50" W x 58.00" L (Panel A)
- (7) 23.50" W x 76.50" L (Panel B)
- (1) 23.25" W x 73.25" L (Panel C)
- (1) 20.75" W x 15.50" L (Panel D)
- (1) 23.50" W x 59.00" L (Panel E)
- (1) 22.25" W x 15.50" L (Panel F)
- (2) 48.00" W x 20.00" L (Panel G - Triangle Cuts)
- (2) 72.00" W x 36.00" L (Panel H)

### 6mm Clear Polycarbonate H-Channel

- (2) H-Channels, 60.00" L (HC 60)
- (2) H-Channels, 77.00" L (HC 77)

### 6mm Clear Polycarbonate U-Channel

- (25) U-Channels, 24.00" L (UC 24)
- (7) U-Channels, 36.00" L (UC 36)
- (2) U-Channels, 48.00" L (UC 48)
- (4) U-Channels, 60.00" L (UC 60)
- (14) U-Channels, 77.00" L (UC 77)

### Clear Polycarbonate Ridge Cap

- (1) Standard Ridge Cap, 74" L

### Edge Sealing Tape

- (2) 1" Roll, Aluminum 'Solid' Tape
- (2) 1" Roll, Anti-Dust 'Vent' Tape

### MultiLite Wood Screw (Recommended greenhouse panel fasteners)

- Hex-Head, Sharp Tip: (3 Pks) #10 x 1" (1/8" drill bit, 1/4" hex bit)

## Hardware List:

### Door Hardware:

- (4) 3" Narrow Hinge w/Non-Removable Pin
- (1) 3" Sliding Barrel Bolt Lock

### Window Hardware:

- (4) 3" Narrow Hinge w/Non-Removable Pin
- (2) 1" Hook & Eye Bolt
- (2) 3/8" x 4-1/2" Carriage Bolt w/3/8" Washer & Nut

**NOTE:** Hardware listed above can be purchased at your local home improvement or hardware store. Make sure your hardware is rated for exterior use. Follow manufacturer's instructions for installing hardware as every brand is different.

## Before You Start

- **Handling & Storage:** To avoid unnecessary scratches, pick up and carry multiwall polycarbonate panels. Do not drag on ground. Store panels flat in a cool, dry place. Cover loosely with an opaque material.
- **Safety Tips:** Always wear safety glasses and gloves when using cutting tools. Do not walk or kneel on multiwall polycarbonate panels during installation.
- **Gather Tools:** Common tools needed include a Circular Saw, Miter Saw, Framing Square, Level, Sawhorses, Carpentry Pencil, Drill/Driver w/Hex & Phillips Bits, Philips Screwdriver, Tin Snips, Utility Knife, Scissors, Putty Knife, and Step Ladder.

**“Build the greenhouse frame first. Confirm your structure is square and level. Make any necessary adjustments BEFORE installing the greenhouse panels.”**

## Installation Tips

- **Protective Film:** The masking film protects the panel from scratches during installation and indicates which side of the panel is UV-protected. Keep the film on until panels are being installed.
  - o **Note:** The polycarbonate greenhouse panels in this kit are UV-protected on **ONLY** 1 side.
- **Edge Sealing Tape:** Sealing tape prevents debris from entering the flutes (channels) and allows for moisture to escape. Tape should not be exposed to the elements, cover it with a U-channel.
- **Polycarbonate U-Channel:** When used to cap the 'bottom' of a multiwall panel, drill several weep holes in the bottom of the channel to ensure proper moisture drainage.
- **Polycarbonate H-Channel:** Used to connect multiwall panels vertically. Make sure to leave a space or gap between panel edge and the inside wall of the H-channel to allow for expansion and contraction.
  - o **Note:** To aid with sliding a U-channel or H-channel onto a panel, try squirting soap along the edge or use a putty knife to gently pry open.
- **Sealants:** After installing channels, a thin bead of sealant may be used to keep out moisture and debris but it's not necessary. Only use a 100% silicone sealant. Check label to ensure product compatibility.
- **Cutting Panels:** A fine-tooth blade with at least 10-teeth per inch is recommended for a smooth cut. A plywood blade is a good choice. To avoid melting the plastic, cut at a high speed but a low advance rate.
  - o **Note:** Polycarbonate U- and H-channels can easily be cut with a tin snips or utility knife.
- **Drilling Panels:** Always pre-drill holes 1/16" larger than the screw diameter to allow for panel expansion and contraction. Use only new or sharply ground steel or carbide tipped drill bits. Drill at a low speed.
- **Fastening Panels:** For best sealing quality, make sure to use the provided neoprene bonded washers. Screw fasteners in straight and do not over-tighten! Overtightened screws may cause the panel to buckle. Use a slower speed for the last few turns. A correctly installed screw will set flush against panel.

## Greenhouse Panel Installation

### Step 1: Confirm Kit Components

1. Open the box and remove all of the items from the Home Harvest Greenhouse Panel Kit.
2. Place the polycarbonate panels and accessories on a non-abrasive surface to prevent scratches.
3. Confirm kit includes all the parts and quantities specified in the Polycarbonate Materials List.  
**Note:** Before you start your installation, inspect everything for any damage. If needed, contact 1-800-602-4441 to request a replacement or new part.

### Step 2: Seal Panel Ends

1. Apply sealing tape to both the top and bottom edge of all greenhouse panels.
  - a. Pull back the masking film an inch or two from the top and bottom ends of the panel.
  - b. Apply the aluminum **(solid)** sealing tape to the top edge of the panel.
  - c. Apply the anti-dust **(vent)** tape to the bottom edge of the panel.



Edge Sealing: Aluminum Solid Tape



Edge Sealing: Anti-Dust Vent Tape

**Note:** Ensure panel surface is clean and dry. Measure and cut tape to length. Center tape on panel edge and apply tape the long way. Wrap tape onto the faces of the panel. Trim any excess tape with scissors.

### Step 3: Attach U-Channels

1. When installing the U-channels, keep in mind the **UV-protected side** of each panel needs to face outward. (The masking film indicates which side is protected.)
  - a. Pull back the protective film slightly from the sides of each panel before attaching the U-channels. (Don't completely remove the film from the panel!)
  - b. Make sure to install the 'longer leg' of the U-channel on the inside of the panel, facing the interior of the greenhouse.
  - c. Attach U-channels starting with the bottom edge of the panel.
    - i. Before attaching a channel to the bottom edge, make sure to drill at least three (3) 1/8" weep holes in the bottom of the channel for moisture drainage.
  - d. Then attach a U-channel to the top edge of the panel.
  - e. Lastly, attach U-channels to both sides of the panel.
    - i. Side U-channels should overlap the channels on the top and bottom of the panel, creating a finished look.
  - f. Trim channels to length if needed. A tin snip works well for cutting polycarbonate U-channels.
2. Attach U-channels to all sides of each greenhouse panel **EXCEPT** where an H-Channel as noted on the drawings. The U-channels in this kit have been pre-cut to 5 (five) standard sizes.
  - a. FRONT WALL:
    - i. Panel A: Bottom edge (UC 24), Top edge (UC 24), Sides of panel (UC 60)



Attach U-Channel: Drill Weep Holes



Attach U-Channel: Square Edge



Attach U-Channel: Angled Edge

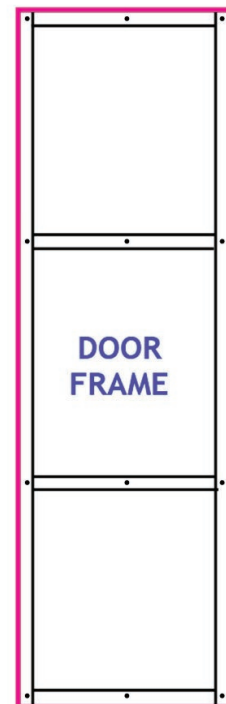
- ii. Panel B: Bottom edge (UC 24), Top edge (UC 24), Sides of panel (UC 77)
- iii. Panel C: Bottom edge (UC 24), Top edge (UC 24), Sides of panel (UC 77)
- b. FRONT WALL WINDOW:
  - i. Panel D: Bottom edge (UC 24), Top edge (UC 24), Sides of panel (UC 36 – Cut in half)
- c. BACK WALL:
  - i. Panel B: Bottom edge (UC 24), Top edge (UC 24), **Left Side ONLY** (UC 77)
  - ii. Panel E: Bottom edge (UC 24), Top edge (UC 24), **No U-channels on sides**
  - iii. Panel B: Bottom edge (UC 24), Top edge (UC 24), **Right Side ONLY** (UC 77)
- d. BACK WALL WINDOW:
  - i. Panel F: Bottom edge (UC 24), Top edge (UC 24), Sides of panel (UC 36 – Cut in half)
- e. LEFT SIDE WALL:
  - i. Panel B: Bottom edge (UC 24), Top edge (UC 24), **Left Side ONLY** (UC 77)
  - ii. Panel B: Bottom edge (UC 24), Top edge (UC 24), **Right Side ONLY** (UC 77)
- f. RIGHT SIDE WALL:
  - i. Panel B: Bottom edge (UC 24), Top edge (UC 24), **Left Side ONLY** (UC 77)
  - ii. Panel B: Bottom edge (UC 24), Top edge (UC 24), **Right Side ONLY** (UC 77)
- g. ROOF & GABLE ENDS:
  - i. Panel G: Bottom edge (UC 48), Top edge (UC 24), **Sides of panel** (UC 60 – Cut in half)
  - ii. Panel H: Bottom edge (UC 77), Top edge (UC 77), Sides of panel (UC 36)

**NOTE:** *Keep the panels for the front wall, back wall, side walls, and roof/gable ends separated from one another to avoid confusion during panel installation.*

**“Having an additional set of hands to assist with holding the greenhouse panels when pre-drilling and fastening will make the installation process go more smoothly and save you time.”**

#### Step 4: Install Front Door Panel:

1. Front Door Polycarbonate & Optional Door Stops
  - (1) 23.25" W x 73.25" L (Panel C)
  - (2) Door Frame Stops: 2" x 2" x 6"
  - (1) 3" Sliding Barrel Bolt Lock
2. Optional alternative for the door stops:
  - a. Install two (2) 6" door frame stops on the left side of the door opening. Position stops in desired location on 2x4. Fasten in place with 2 screws. (Stops prevent door from opening too far inward.)
3. Attach the polycarbonate panel to the door frame.
  - a. Remove the protective masking film from the 'inside' of the panel.
  - b. Make sure the panel is aligned properly. The panel should be square and flush with the outside edges of the door frame.
  - c. Confirm the panel is oriented correctly (top edge is up/bottom 'vented' edge is down) and the UV-protected side of the panel faces outward.
  - d. Begin by attaching the panel at all four corners. Make sure to pre-drill holes to allow for expansion and contraction. Fasten screws perpendicular to panel. Don't overtighten!
  - e. Once the corners are secured, remove the masking from the outside of the panel and fasten the rest of the panel to the framing following the screw placement in Illustration 6a.



*Door Panel: Illustration 6a*

## Step 5: Install Front Wall Panels

1. Front Wall Panel Polycarbonate Parts:
  - (1) 23.50" W x 58.00" L (Panel A)
  - (1) 23.50" W x 76.50" L (Panel B)
2. Starting on left side of the front wall, install LEFT FRONT PANEL.
  - a. Remove protective film from the 'inside' of the panel.
  - b. Make sure the panel is aligned properly. The left edge of the panel should be flush with the outside edge of the wood frame and centered top to bottom.
  - c. Confirm the panel is oriented correctly (top edge is up/bottom 'vented' edge is down) and the UV-protected side faces outward.
  - d. Begin by attaching the panel at all four corners. Make sure to pre-drill holes to allow for expansion and contraction. Fasten screws perpendicular to panel. Do not overtighten the screws!
  - e. Once corners are secured, remove masking from the outside of the panel and fasten the rest of the panel to the framing following the screw placement in Illustration 5a.

**Note:** When pre-drilling holes, do not drill too close to the edge of the U-channel. The head of the screw should sit flush on the panel and not overlap the channel.

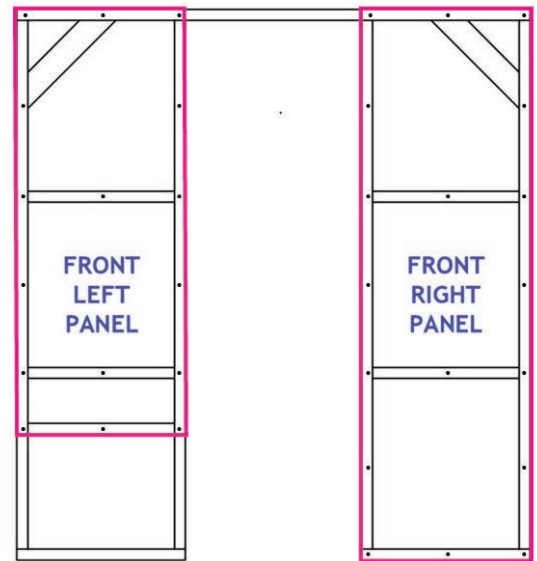
- f. Attach the RIGHT FRONT PANEL to the greenhouse frame as per previous steps (2a thru 2e)
  - a. The right edge of the panel should be aligned flush with the outside of the frame.
  - b. Make sure RIGHT FRONT PANEL is oriented correctly and centered top to bottom.

3. Install a sliding barrel bolt lock.
  - a. Choose a height for the sliding barrel bolt. Confirm the main component of the bolt is level and mark the placement of the screw holes.
  - b. Pre-drill holes. Align the main body of the bolt over the holes and fasten into position.
  - c. Hold the catch plate against the door, level with the sliding bolt. Double check the fit of the sliding bolt.
  - d. Draw around catch plate and cut out this part of the U-channel with a utility knife to create a recessed area.
  - e. Mark placement of screw holes. Pre-drill holes and fasten the catch plate into the recessed space (this is where the bolt will slide into to lock the door).

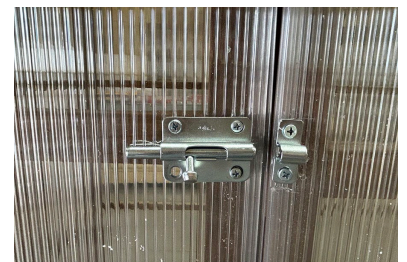
**Note:** Hardware installation steps may vary depending on brand. Follow instructions on manufacturer's packaging for best results.



*Front Wall Panels: Pre-drill Holes*



*Front Wall Panels: Illustration 5a*



*Door Panel: Sliding Bolt Lock*



### Step 6: Install Front Window Panel:

1. Front Window Polycarbonate & Optional Window Stops
  - (1) 20.75" W x 15.50" L (Panel D)
  - (2) Window Frame Stops: 2" x 2" x 6"
  - (1) Window Ventilation Stop: 2" x 2" x 16"
  - (1) 3/8" x 4-1/2" Carriage Bolt w/3/8" Washer & Nut
2. Optional alternative for the window stops:
  - a. Install two (2) 6" window frame stops.
    - i. Center within the bottom 2x4, butting up the stop to the side 2x4. Fasten in place with 2 screws. (Stops prevent window from opening too far inward.)
  - b. Install a 16" window 'ventilation' stop. (wind brace)
    - i. Starting 2" from one end of the wood stop, drill six (6) 3/8" holes, 2" apart.
    - ii. Position the stop in the desired location on the side 2x4, mark hole placement, and drill hole.
    - iii. Insert carriage bolt into the drilled hole, attach window ventilation stop, add washer and nut.
3. Attach the polycarbonate panel to the window frame.
  - a. Remove the protective film from the 'inside' of the panel.
  - b. Make sure the panel is aligned properly. The panel should be square and flush with the outside edges of the window frame.
  - c. Confirm the panel is oriented correctly (top edge is up/bottom 'vented' edge is down) and UV-protected side faces outward.
  - d. Begin by attaching the panel at all four corners. Make sure to pre-drill holes to allow for expansion and contraction. Fasten screws perpendicular to panel. Don't overtighten!
  - e. Once the corners are secured, remove the masking from the outside of the panel and fasten the rest of the panel to the framing following the screw placement in Illustration 4a.

**Note:** Cut window stops from scrap pieces of 2x2 pre-treated lumber.

### Step 7: Install Back Wall Panels

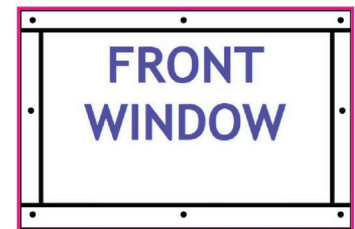
1. Back Wall Polycarbonate Parts:
  - (2) 23.50" W x 76.50" L (Panel B)
  - (1) 23.50" W x 59.00" L (Panel E)
  - (2) H-Channels, 60" L (HC 60)
  - (1) U-Channel, 36" L (UC 36 – Cut in half. Edge above H-Channel\*)
2. Starting on the left side of the back wall, install the LEFT BACK PANEL.
  - a. Remove the protective film from the 'inside' of the panel.
  - b. Make sure the panel is aligned properly. The left edge of the panel should be flush with the outside edge of the wood frame and centered top to bottom.
  - c. Fasten the left side of the panel ONLY to the frame at the top and bottom corners.
  - d. Slide an H-channel onto the right side of the panel and align it with the bottom edge of panel.
    - i. Confirm the back window closes correctly. If needed, trim top edge of the H-channel.
    - ii. Make sure to leave a 1/8" 'gap' between the edge of the panel and the inside wall of the H-channel to allow for expansion and contraction.



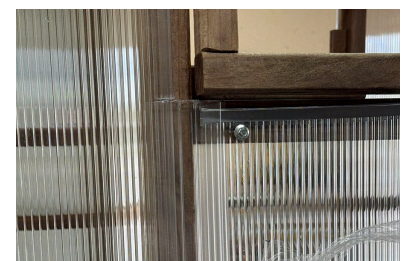
Front Window: Interior View



Front Window: Exterior View

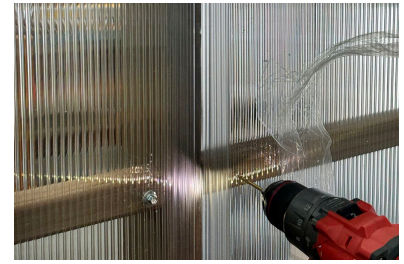


Front Window: Illustration 4a



Back Wall Panels: H-Channel

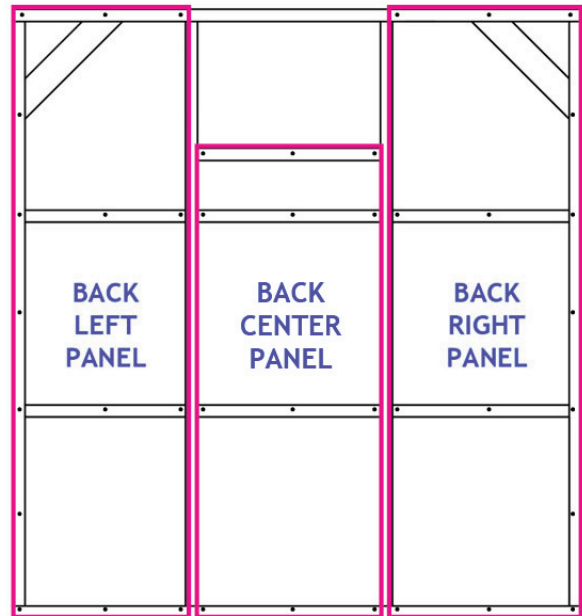
- iii. To cover the 'open' panel edge above the H-channel. \*Cut a U-channel to length and attach to the panel. The U-channel should butt snugly against the H-channel.
- iv. A small bead of 100% silicone may be used to seal the edge where the channels meet.
- e. Finish attaching the LEFT BACK PANEL to the frame.
  - i. Remove the masking from the outside of the panel and fasten the rest of the panel to the framing following the screw placement in Illustration 8a.



*Back Wall Panels: Pre-drill Holes*

**Note:** When pre-drilling holes, do not drill too close to the edge of the H-channel. The head of the screw should sit flush on the panel and not overlap the channel.

3. Select the CENTER BACK PANEL and attach the panel to the greenhouse frame.
  - a. Remove the protective film from the 'inside' of the panel.
  - b. Insert the left side of the CENTER BACK PANEL into the H-channel.
  - c. Make sure to leave a 1/8" 'gap' between the edge of the panel and the inside wall of the H-channel.
  - d. Fasten the left side of the panel ONLY to the greenhouse frame at the top and bottom corners.
4. Slide an H-channel onto the right side of the CENTER BACK PANEL and align it with the bottom edge of panel.
  - a. Confirm the back window closes correctly. If needed, trim the top edge of the H-channel to the height of the center back panel.
  - b. Make sure to leave a 1/8" 'gap' between the panel edge and the inside wall of the H-channel.
  - c. Finish attaching the CENTER BACK PANEL to the greenhouse frame.
    - i. Remove the masking from the outside of the panel and fasten the rest of the panel to the framing following the screw placement in Illustration 8a.



*Back Wall Panels: Illustration 8a*

5. Install the RIGHT BACK PANEL to the greenhouse frame.
  - a. Remove the protective film from the 'inside' of the panel.
  - b. Insert the left side of the RIGHT BACK PANEL into the H-channel, leaving a 1/8" 'gap' between the edge of the panel and the inside wall of the H-channel.
  - c. The right edge of the RIGHT BACK PANEL should be flush with the outside of the wall frame.
    - i. To cover the 'open' panel edge above the H-channel. Cut a U-channel to length and attach to the panel. The U-channel should butt snugly against the H-channel.
    - ii. A small bead of 100% silicone may be used to seal the edge where the channels meet.
  - d. Remove the masking from the outside of the panel and fasten the panel to the frame following the screw placement in Illustration 8a. Drill screws in straight. Don't overtighten!

**Note:** Before pre-drilling and fastening, make sure panels are oriented correctly (top edge is up/bottom 'vented' edge is down) and the UV-protected side faces outward.

### Step 8: Install Back Window Panel

1. Back Window Polycarbonate & Optional Window Stops:
  - (1) 22.25" W x 15.50" L (Panel F)
  - (2) Window Frame Stops: 2" x 2" x 6"
  - (1) Window Ventilation Stop: 2" x 2" x 16"
  - (1) 3/8" x 4-1/2" Carriage Bolt w/3/8" Washer & Nut
1. Follow step-by-step instructions outlined in Step 4 for the FRONT WINDOW. Install BACK WINDOW panel and stops in the same way.

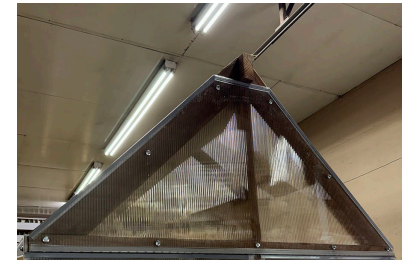


Back Window: Interior View

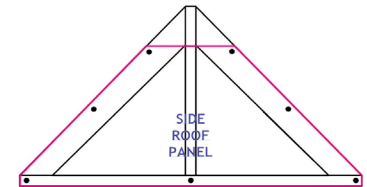
### Step 9: Install Gable End Panels

1. Side Roof Polycarbonate Parts:
  - (2) 48.00" W x 20.00" L (Panel G)
2. Starting on one side of the greenhouse, install a SIDE ROOF PANEL.
  - a. Make sure the panel is aligned properly, centering the panel within the rough opening.
    - i. The side roof panel should fit snugly up against ridge roof beam.
  - b. Confirm the panel is oriented correctly and the UV protected side faces outward.
  - c. Attach the panel to the frame at all 4 'points', with an additional screw in the center on all sides except for the top. Reference illustration 9a. Drill screws in straight. Don't overtighten!
3. Follow these steps to attach a SIDE ROOF PANEL to the opposite side of the greenhouse structure.

**Note:** Remember to pre-drill holes before fastening to allow for proper expansion and contraction.



Side Roof Panel: Exterior View



Side Roof Panel: Illustration 9a

### Step 10: Install Side Wall Panels

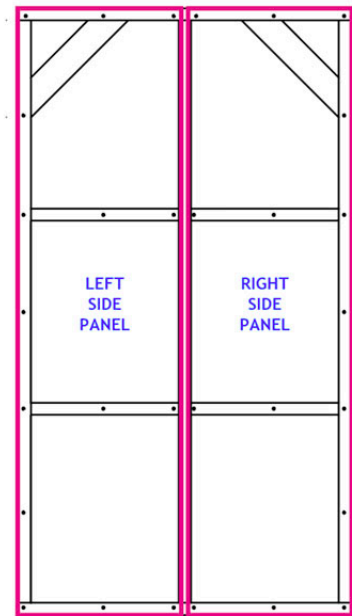
1. Side Wall Polycarbonate Parts:
  - a. (4) 23.50" W x 76.50" L (Panel B)
  - b. (2) H-Channels, 77.00" L (HC 77)
2. Starting on the left side of one of the side walls, install LEFT SIDE PANEL.
  - a. Remove the protective film from the 'inside' of the panel.
  - b. Make sure the panel is aligned properly before fastening. The left edge of the panel should be **flush with the outside edge of the wood frame** and centered top to bottom.
  - c. Fasten the left side of the panel **ONLY** to the frame at the top and bottom corners.
  - d. Slide an H-channel onto the right side of the panel and align it with the bottom edge of panel, leaving a gap between the panel edge and inside wall of the H-channel for expansion/contraction.
  - e. Trim the top edge of the H-Channel to the height of the panel.
3. Install the RIGHT SIDE PANEL
  - a. Remove the protective film from the 'inside' of the panel.



Side Wall Panels: Exterior View

- b. Insert the left side of the panel into the H-channel, leaving a gap between the panel edge and inside wall of the H-channel for expansion/contraction.
  - c. The right edge of the RIGHT SIDE PANEL should **align with the outside of the wall frame**. If not, adjust the panels to fit before fastening!
4. Finish attaching the LEFT SIDE PANEL to the frame.
    - a. Remove the masking from the outside of the panel and fasten the rest of the panel to the framing following the screw placement in Illustration 10a.
    - b. Drill screws in straight. Don't overtighten!
  5. Then attach the RIGHT SIDE PANEL to the frame.
    - a. Remove the masking from the outside of the panel and fasten the panel to the frame per Illustration 10a.
  6. Follow these steps for installing a RIGHT SIDE PANEL and LEFT SIDE PANEL to the opposite side wall.

**Note:** Always pre-drill holes! Do not drill too close to the edge of the H-channel. The head of the screw should sit flush on the panel and not overlap the channel.



Side Wall Panels: Illustration 10a

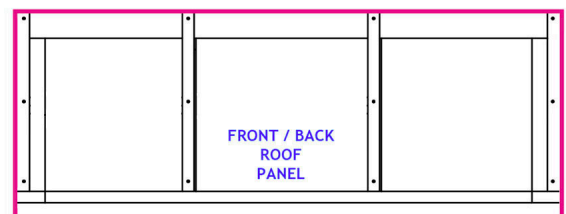
### Step 11: Install Front & Back Roof Panels

1. Front/Back Roof Polycarbonate Parts:
  - (2) 72" x 36" L (Panel H)
2. Starting on the back side of the greenhouse, install the BACK ROOF PANEL to the frame.
  - a. Remove the protective film from the 'inside' of the panel.
  - b. The roof panel will overhang the frame approximately three (3) inches on the front and back.
  - c. Align panel and fasten it to the frame at all four corners. Drill screws in straight. Don't overtighten!
  - d. After the corners are secured, remove the masking from the outside of panel and fasten the rest of the panel to the framing following the screw placement in Illustration 11a.
3. Follow these steps to attach the FRONT ROOF PANEL to the front side of the greenhouse structure.

**Note:** Make sure panels are oriented correctly, UV protected side facing out.



Back Roof Panel: Exterior View



Back Roof Panel: Illustration 11a

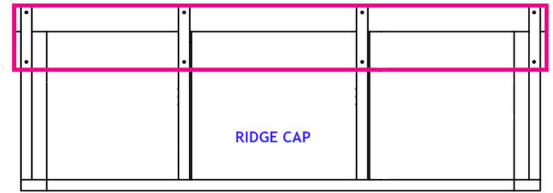
### Step 12: Install Roof Ridge Cap

1. Ridge Cap Polycarbonate Parts:
  - (1) Standard Ridge Cap 74" L
2. Center the ridge cap over the ridge roof beam so it is positioned evenly on both side of the roof's peak. The ridge cap should overlap the front and back roof panels equally.



Ridge Cap: Exterior View

- a. Starting on the 'front side' attach the ridge cap to the greenhouse frame following the screw placement in Illustration 12a. Drill screws in straight. Don't overtighten!
- b. Work in ONLY one direction. Do not begin fastening at both ends and work towards center.
- c. Fasteners should be installed at least one (1) inch from edge of ridge cap.



*Ridge Cap: Illustration 12a*

**Note:** *The edges of the ridge cap will not sit perfectly flat on the roof panels. These gaps are normal and will aid in ventilation and help prevent moisture build up.*

## Home Harvest 4' x 6' Greenhouse – Finished Exterior Views



## Cleaning Multiwall Polycarbonate Panels

To maintain high light transmission and panel integrity, periodically clean the polycarbonate panels to remove dirt, dust, and debris that accumulates on the surface. Don't clean in direct sunlight or at high temperatures.

1. Gently wash panel with mild household detergent, lukewarm water, and a soft cloth or sponge.
2. Thoroughly rinse panel with clean water and dry with a soft cloth to prevent water spotting.
3. Never use abrasive cleaner, corrosive chemicals, or gasoline.
4. Never scrub with brushes, steel wool, or other abrasive materials.
5. Don't use squeegees, razorblades, or other sharp instruments to remove deposits or spots.

## Additional Information

If additional technical, loading, or system information is needed, please contact AmeriLux. If you have a specific question about requirements in your region, contact your local code office or building inspector. Drawings and technical reports are provided for reference only. Drawings are not project-specific and are for product representation only. Actual products may vary. These drawings are the property of AmeriLux and are to be used solely as a representation of AmeriLux products. These designs may not be recreated or produced without the expressed, written consent of AmeriLux. All information, recommendations, or advice given by AmeriLux employees or partners, written or oral, is given in good faith and is thought to be accurate and current. It is the responsibility of each product user to ensure the product is used in compliance with current environmental and legal requirements specific to each product application. AmeriLux and its partners will not be held liable for incorrect or improper use of its products.

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