



GrowSpan™ Double Swinging Door Installation



Photo may show double door installed in a different greenhouse model.

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WARNING: Cancer and Reproductive Toxicity - P65Warnings.ca.gov

Revision date: 01.10.19

SKU#
105105
Double Door Kit

Important Information

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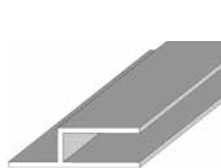
Installation of double swinging doors can occur anytime after end wall is assembled and end wall polycarbonate panels are installed. Refer to main building technical documents for additional details.

REQUIRED TOOLS

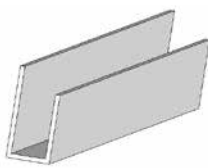
The following list identifies the main tools needed to assemble doors. Additional tools and supports may be needed.

- Tape measure or measuring device.
- Marker to mark locations.
- Drill and drill index with 1/16" and 5/16" bits.
- Clutched drill driver to drive Tek screws. (Cordless with extra batteries works best.) **Do not use an impact driver to install Tek screws.**
- Saw for cutting polycarbonate panels and metal.
- Hammers and gloves.
- Ladders, work platforms, or other machinery for lifting designed to work safely at door height.

PARTS (Addition parts shown throughout this guide.)



104548
End Cap
Doors/Fans/Vents



104213
Aluminum
U-Channel



102921 Neo-bonded Washers
& FA4484B Long Tek Screws

READ THIS DOCUMENT BEFORE YOU BEGIN

These instructions include helpful hints and important information needed to safely assemble doors. Please read these instructions **before** you begin.

Contact Customer Service at 1-800-245-9881 for assistance if needed.

SAFETY PRECAUTIONS AND CARE AND MAINTENANCE

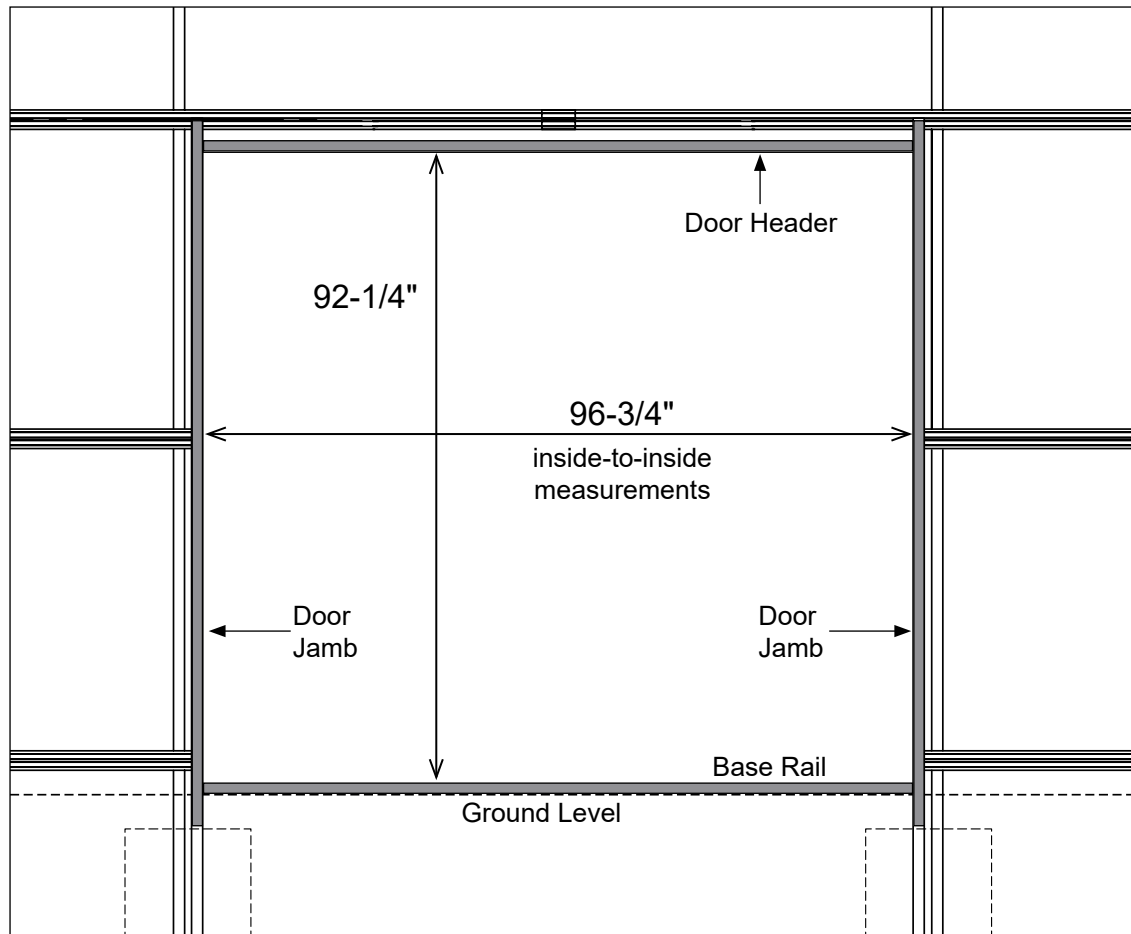
- Wear eye and head protection.
- Wear gloves when handling metal tubes and panels.
- Use a portable GFCI (Ground Fault Circuit Interrupter) when working with power tools and cords.
- Do not climb on greenhouse or framing during or after construction.
- Do not occupy greenhouse during high winds, tornadoes, or hurricanes.
- Provide adequate ventilation if structure is enclosed.
- Do not store hazardous materials in greenhouse.
- Provide proper ingress and egress to prevent entrapment.
- **Do not leave doors ajar after installation. Close doors and secure with latch or prop doors open to avoid personal injury or damage.**
- Regularly check polycarbonate panels to see they remain secure and in good condition. Replace damaged panels if needed.
- Check connections and all fasteners to verify they remain tight.
- Check shelter contents to verify nothing is touching polycarbonate panels to cause damage or interfere with door operation.

ASSEMBLY NOTE: All screws shall be driven with a clutched drill driver. *Do not use impact drivers* as they can overtighten screws and otherwise damage screws and base materials, compromising screw and joint integrity.

Important Information

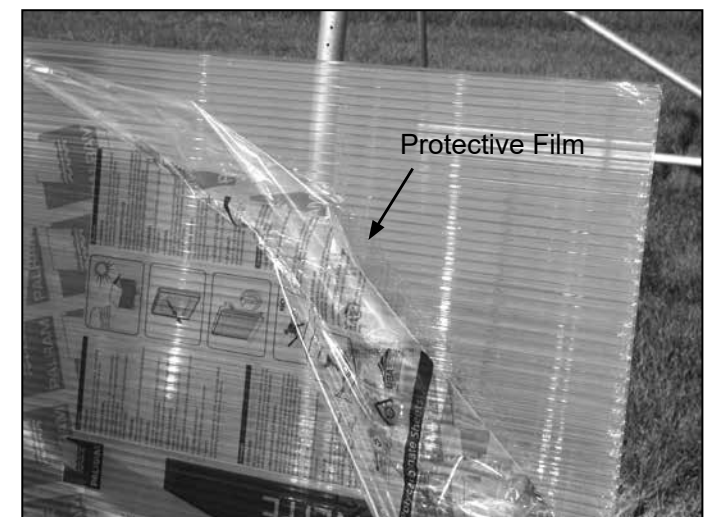
DOUBLE DOOR FRAME LAYOUT

Frame (or check) rough door opening. Opening to be 1/4" taller than doors and 3/4" wider than width of both assembled door frames. *For dimensions, assemble individual door frames according to instructions included with the frames; then measure the assembled frames.*



IMPORTANT NOTICE: Remove protective film from each polycarbonate panel before attaching panel to frame. Allowing film to remain intact and in direct sunlight will cause film to become difficult if not impossible to remove. **Store panels out of direct sunlight until protective film is removed.**

Rest panel edges on cardboard or other material to protect them from dirt and damage during assembly. **Mark UV-protected side with a piece of tape (or use a washable marker) after protective film is removed.**



Assemble & Install Double Doors

ATTENTION: The assembly and installation of double doors can occur any time after assembling main frame and installing end wall cladding. For easier access without obstructions, assemble and install doors *after* installing sidewall and roof cladding.

ASSEMBLE AND ATTACH DOORS

1. Locate door frame (102923), assemble (if needed), and place on a flat surface.
2. Select one 4' x 8' polycarbonate panel and trim it so length is one-quarter inch (1/4") shorter than length of door frame. Width of panel does not need trimmed.
3. Remove protective film. Mark UV-protected side if needed. *Always install panels with UV-protected side outside (toward sun).*
4. Center panel on door frame. Use FA4484B Tek screws and neo-bonded galvanized washers to attach panel to *horizontal cross tube* of door frame. *Space screws at 12" on center.*

NOTE: Attach panel in locations shown in photo to hold panel in place while installing U-channel (104213) to perimeter edge of panel. **Do not install screws near latch mounting hole.**

5. Install u-channel along all edges of polycarbonate panel.

Photo shows panel installed on door frame and finished with the aluminum u-channel (104213). Corners are cut at 45° angles.

To keep panel and profile secure, install FA4484B Tek screws and neo-bonded washers so screw drills through longer edge of U-channel (underside of panel) and washer overlaps shorter edge of U-channel (top) as shown (above right).

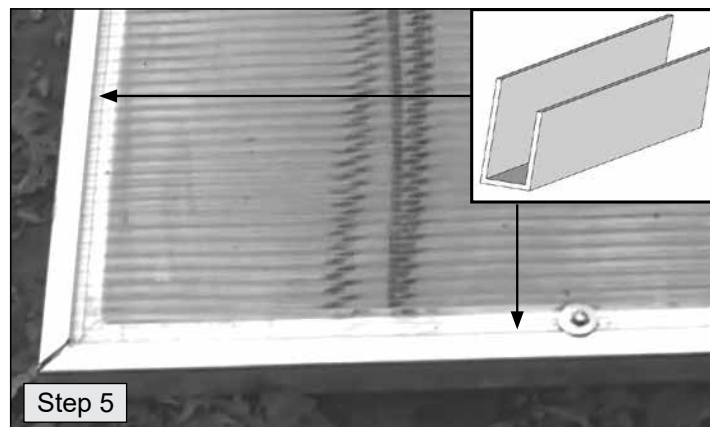
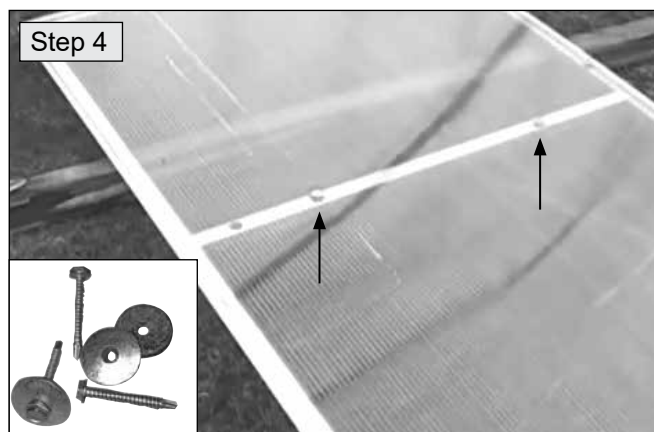
6. Repeat above steps to attach panel and to attach aluminum profile to remaining door frame.
7. After assembling both doors, evenly space three (3) hinges along each door frame. *Typical distance from top and bottom of frame for hinge placement is approximately 12" to 16".*

NOTE: Ensure you are attaching to correct edge of door frame. Verify latch mounting hole location.

8. Attach hinges to assembly using FA4484B Tek screws.

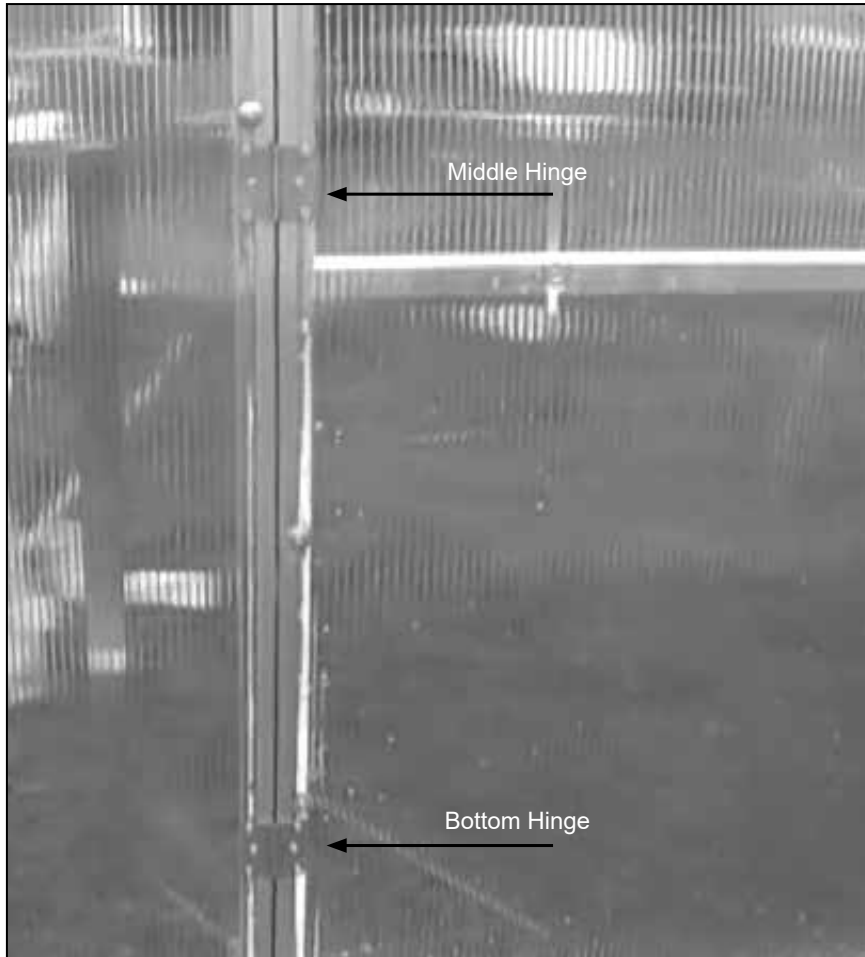
Materials and parts needed to assemble doors include:

- Door frames (102923) and polycarbonate panels (116049)
- Door hinges (FA5030) and latch hardware (FA2410 & 100406)
- Aluminum U-channel (104213) & End cap (104548)
- Tek screws (FA4484B)
- Neo-bonded galvanized washers (102921B)



DOUBLE DOOR ASSEMBLY (continued)

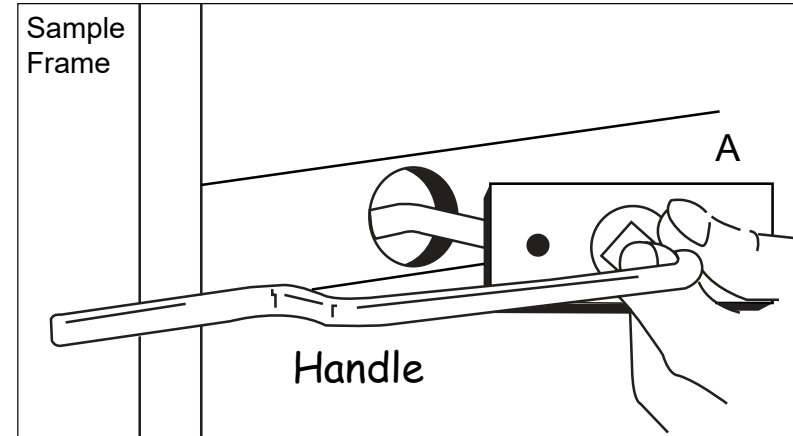
9. With assistance, lift door and attach hinges to end wall using FA4484B Tek screws.



Locations of door hinges may vary.

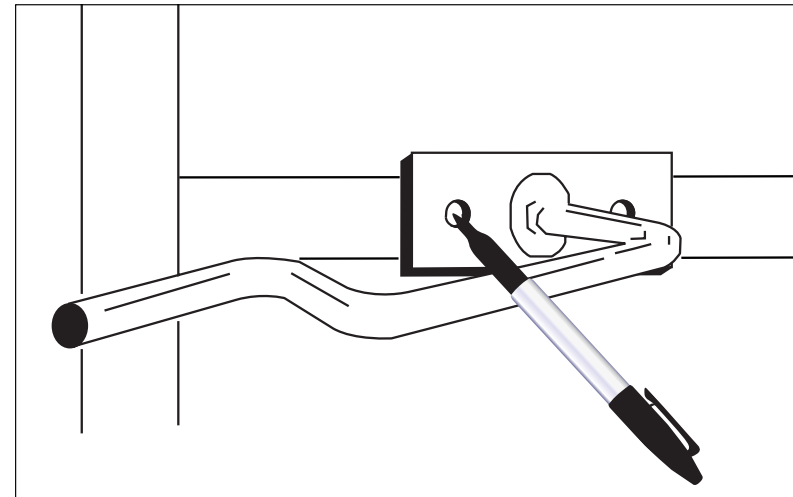
10. Check door operation on hinges.
11. Determine on which door to install latch handle, locate door latch mounting hole (5" from edge of door in cross member), and drill a 1" hole through polycarbonate panel at hole location.

12. Place main latch handle assembly A through hole in door and twist handle and mounting plate into place as shown in drawing below.



NOTE: Polycarbonate panel is not shown.

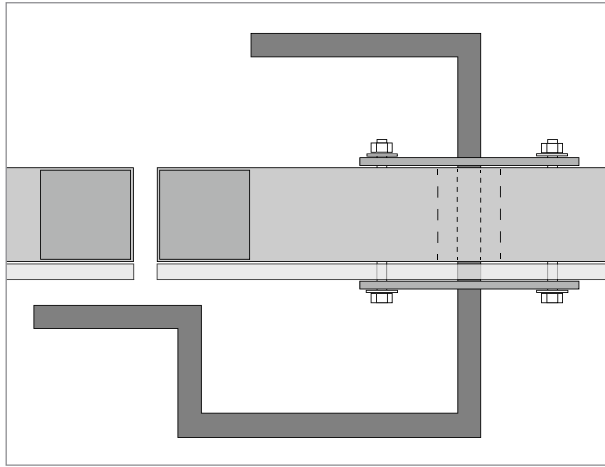
13. Using mounting plate as a template, mark plate mounting hole locations on panel and drill 5/16" holes through panel and door frame.



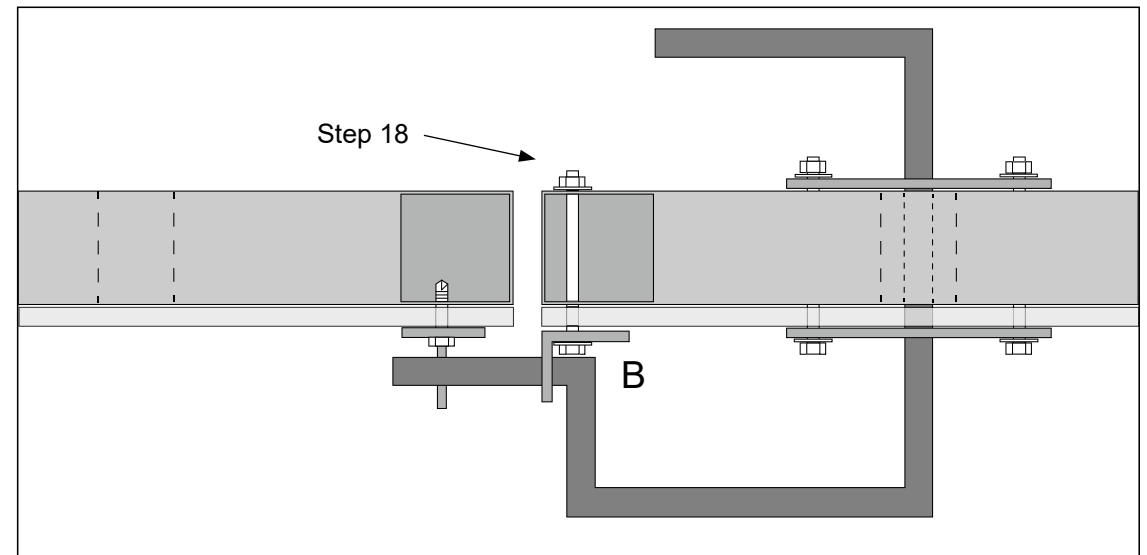
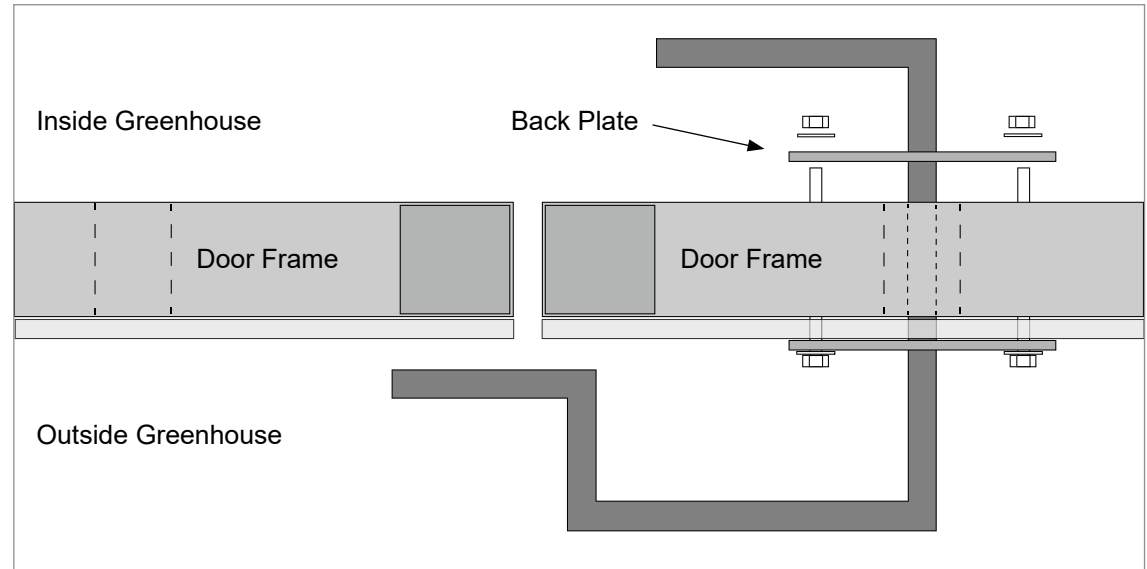
ATTENTION: Before marking mounting hole locations, slide door latch guide B — see diagram next page — onto outside latch handle to better judge where to place main latch assembly on door frame cross bar.

DOUBLE DOOR ASSEMBLY (continued)

14. From outside, slide latch handle through hole and into position. On the inside, slide back plate onto latch handle. See top views below.
15. Align mounting plate and back plate with mounting holes and secure using two (2) 1/4" x 3" bolts and lock nuts (included with latch kit).
16. Tighten nuts until snug and verify latch operates freely.



17. Using a hacksaw, cut mounting bolts flush to lock nut and file bolt ends smooth to prevent cuts when operating door latch.
18. Mount *door latch guide* (slotted plate – B) using the remaining 1/4" x 3" bolts. Position so latch handle is level. See diagram next.
19. Repeat step to cut bolts to length after tightening.



Assemble & Install Double Doors

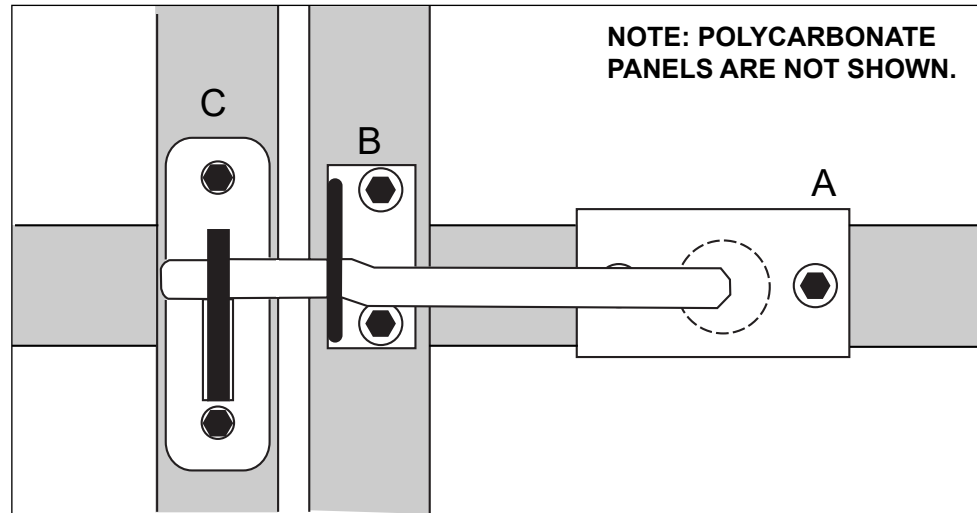
DOUBLE DOOR ASSEMBLY (continued)

20. Place latching plate C (diagram top-right) in position against **panel of adjacent door**.

21. Using latching plate C as a template, mark mounting hole locations on panel. **With doors closed, verify latch handle and latching plate alignment.**

22. Attach latching plate C to door frame using FA4484B Tek screws.

23. With latch installed, move inside the building and close doors.



24. Attach 6" chain bolt assembly (100406 – Part A) to upper part of door that has latching plate C attached to it. (*This is door frame without main latch.*) Attach Part B to header above door.

NOTE: Use fasteners included with chain bolt assembly kit. Predrill all mounting holes as needed. If drill bit is not available, use FA4484B Tek screws to secure assembly to frame. **Only three mounting holes are used.**

Do not attach chain retainer D to door frame until next steps are completed.

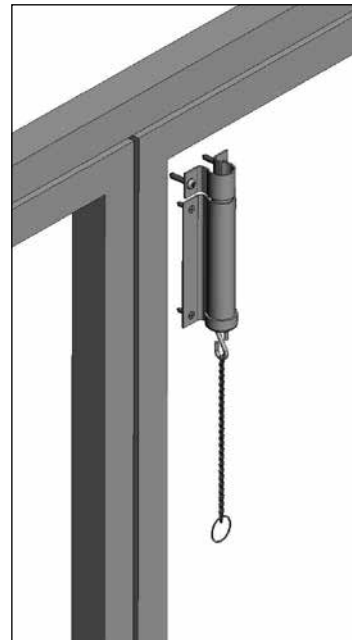
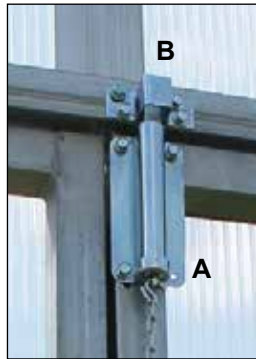
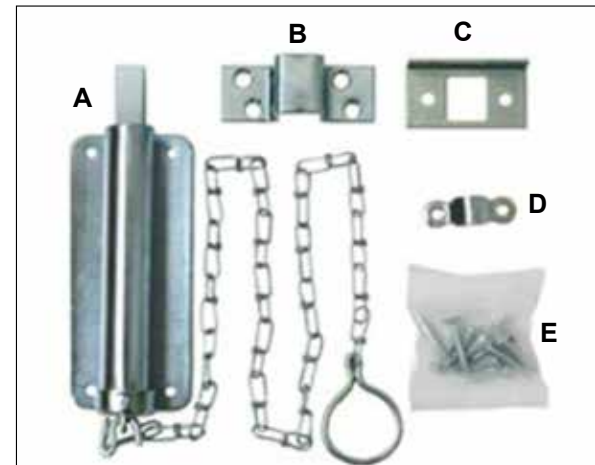


Diagram shows chain bolt assembly as seen standing inside the greenhouse.



100406 CHAIN BOLT LATCH PARTS

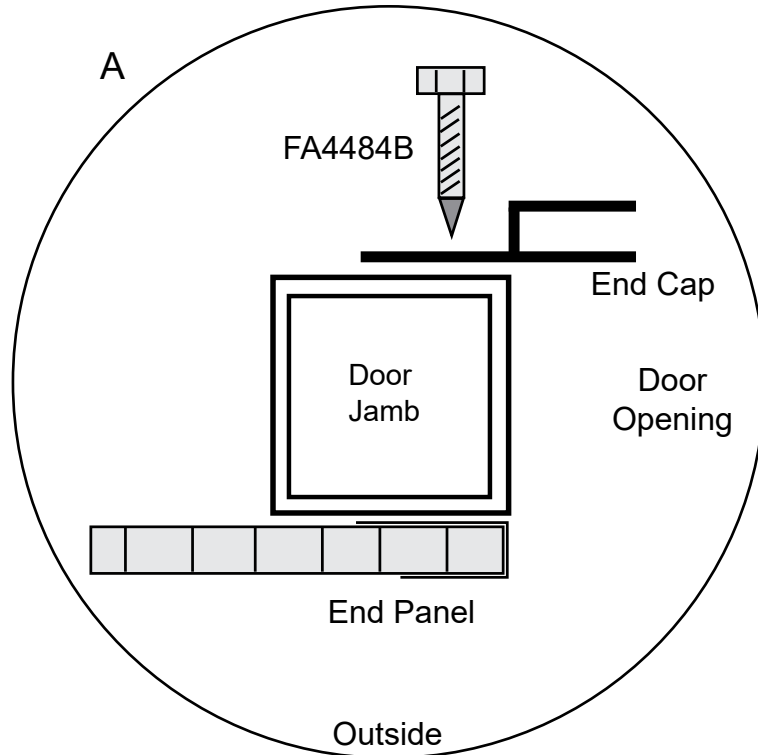
- A:** Spring Chain Bolt
- B:** Bolt Receiver
- C:** Latching Plate (not used)
- D:** Chain Retainer
- E:** Hardware/Fasteners

Assemble & Install Double Doors

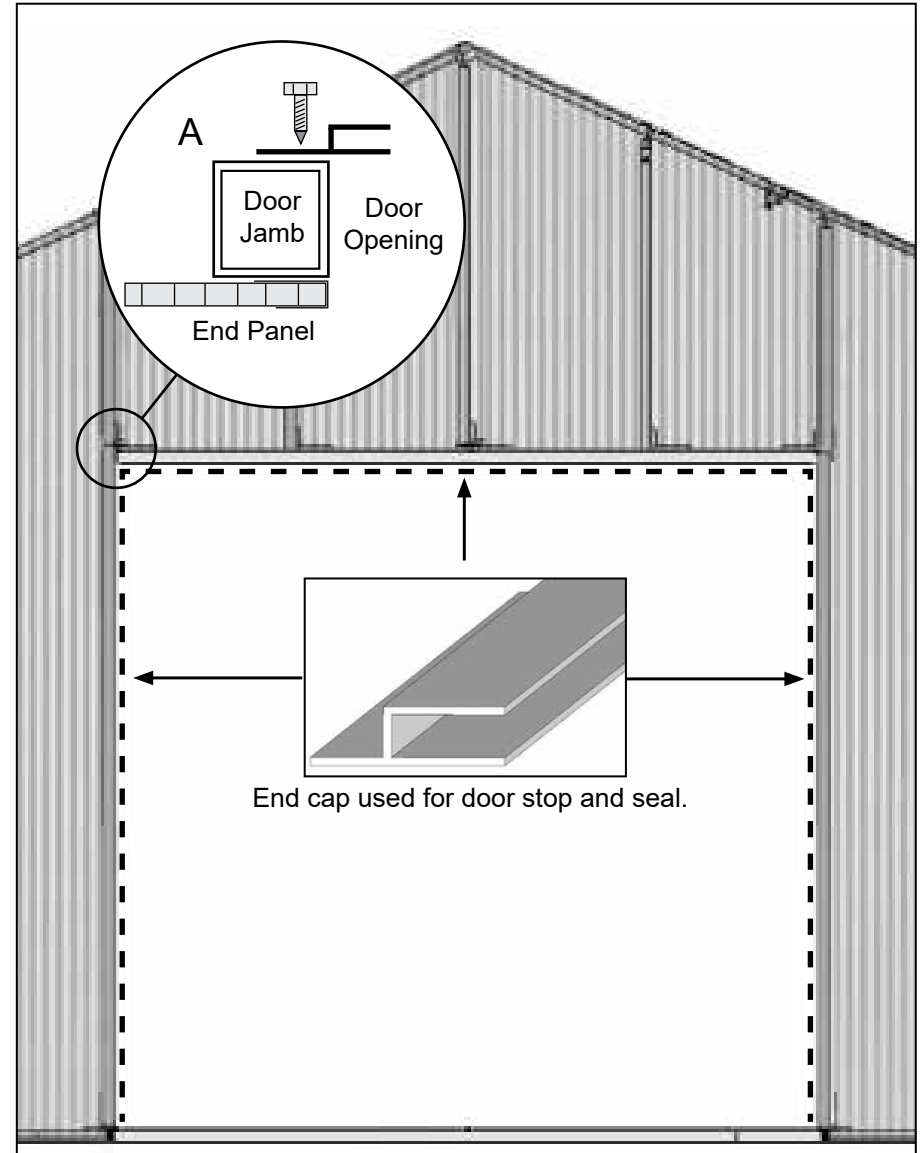
DOUBLE DOOR ASSEMBLY (continued)

25. At top and sides of end frame door opening **on the inside**, attach end cap (104548) using FA4484B Tek screws. Allow end cap to extend into door opening. **Space screws every 16" on center.**

Diagram below shows top view of where to attach end cap to door frame. **Polycarbonate end panel is outside frame; end cap is inside frame.**



ATTENTION: This profile acts as a stop for double doors and prevents undo stress on hinges.

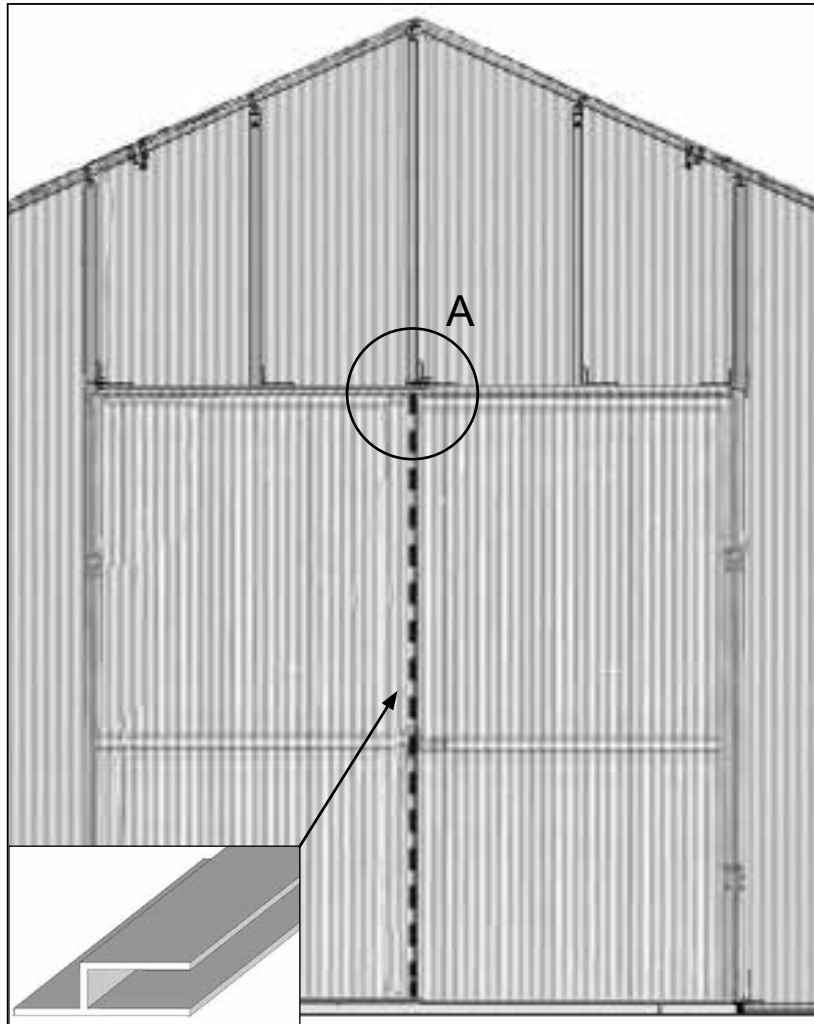


Dashed line identifies where to attach end cap. End cap extends into door opening to stop doors and to help seal gap between door and frame.

Assemble & Install Double Doors

DOUBLE DOOR ASSEMBLY (continued)

26. After installing the 104548 end cap, attach another section along the *inside frame of swinging door that includes the 100406 chain latch – Part A.*



Frame used for illustration purposes only. Outside view of doors.

NOTE: This section of end cap acts as a stop for other door of the double door assembly *when both doors are closed.*

27. Attach chain retainer D to end cap attached to door frame. See photo on next page.

28. Read care and maintenance information at beginning of this guide.

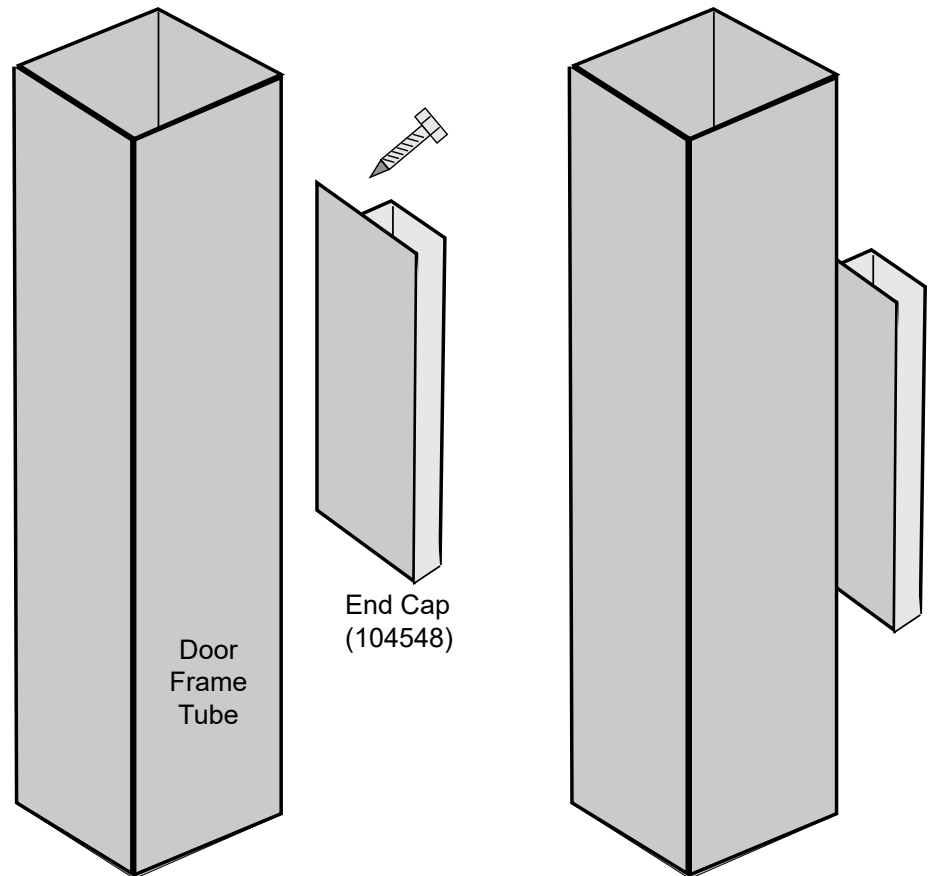
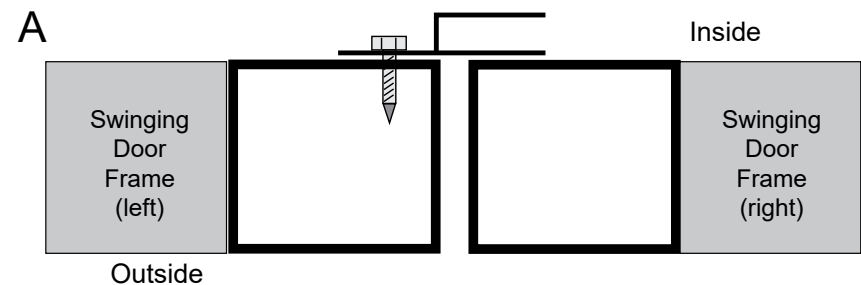


Diagram above shows view of end cap as attached to inside edge of door frame. Polycarbonate panel is not shown. View is from outside looking at section of door frame. Top view shown below.

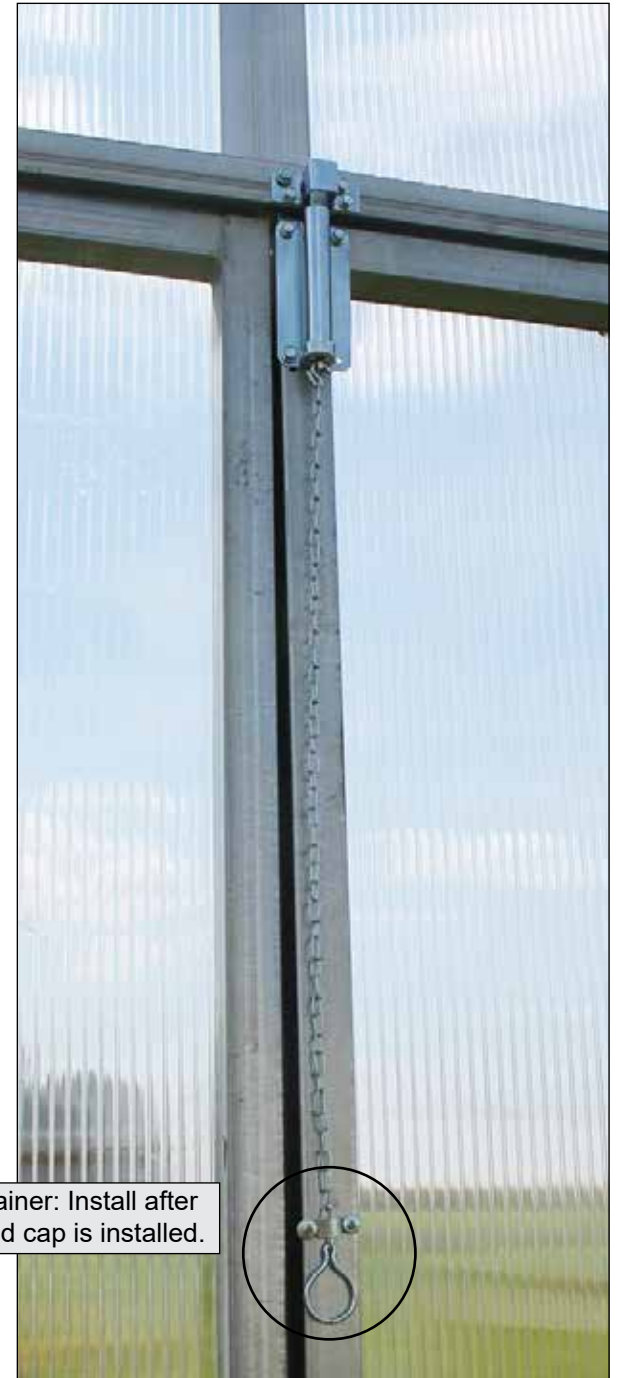


Additional Photos



Photo above shows latch assembly as seen from inside greenhouse. Fasteners may differ. Photo at right shows chain bolt assembly as seen standing inside greenhouse.

NOTE: End cap profile has not been installed. Dashed line shows where to install end cap.



Chain Retainer: Install after 104548 end cap is installed.

Customer Notes

