



Installation Instructions for Fortress Fence Estate Enclosure System Single 13' x 13'

It is the responsibility of the installer to meet all code and safety requirements, and to obtain all required building permits. The installer should determine and implement appropriate installation techniques for each installation situation. Fortress Fence Products and its distributors shall not be held liable for improper or unsafe installations.

Read Instructions Completely Before Starting Installation

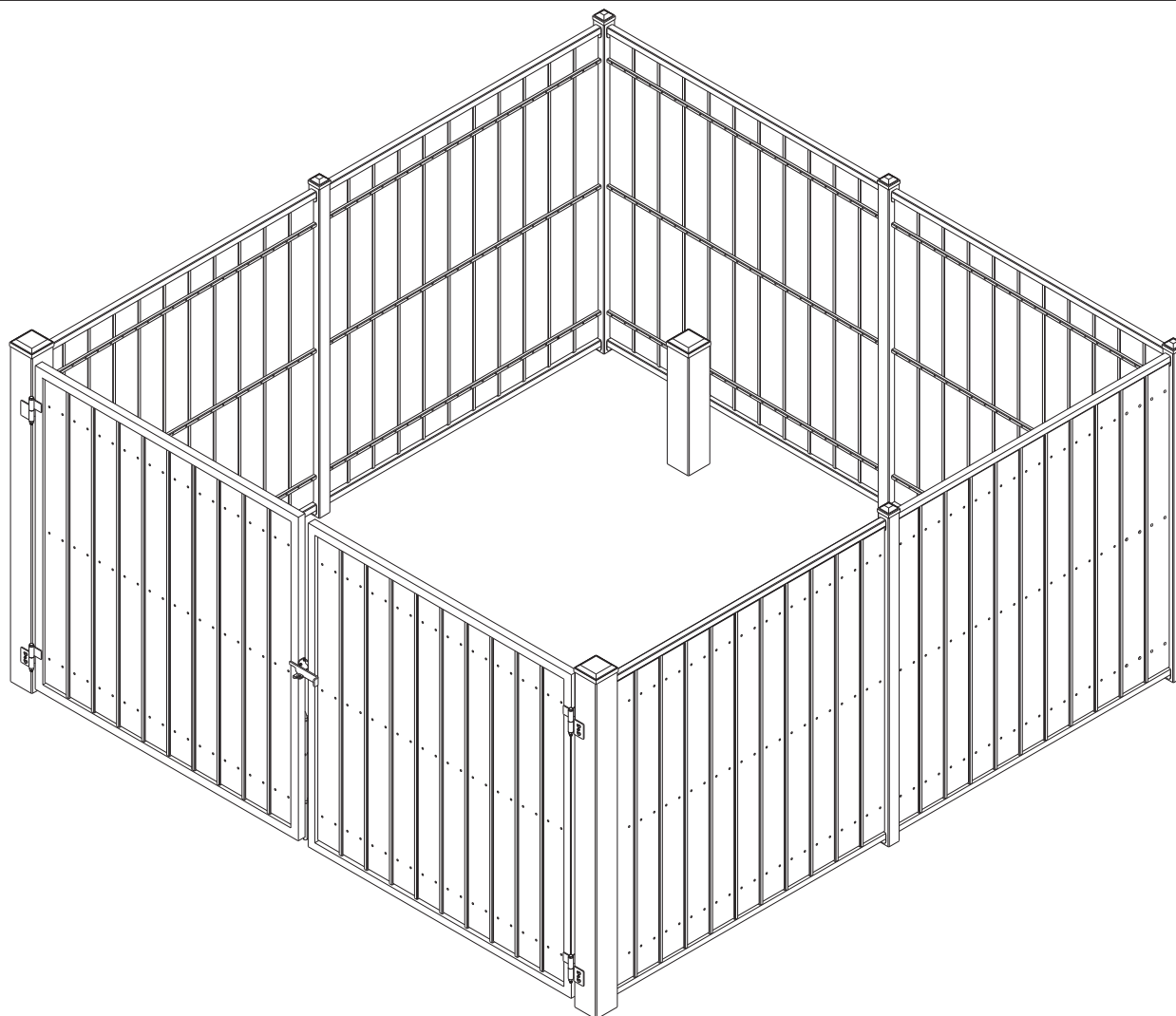
Note

When cutting Fortress Fencing, it is very important to complete the following at cut points:

- Remove all metal shavings from the cut area.
- File any sharp edges left by cutting. Thoroughly wipe and remove any filings, grime or dirt from the fence.
- Apply two coats of Fortress zinc based touch-up paint to the cut area. If touch up is at rail ends, allow paint to dry before connecting bracket to post.
- **Call 811 before digging any post holes to locate any buried utilities.**

Required Materials

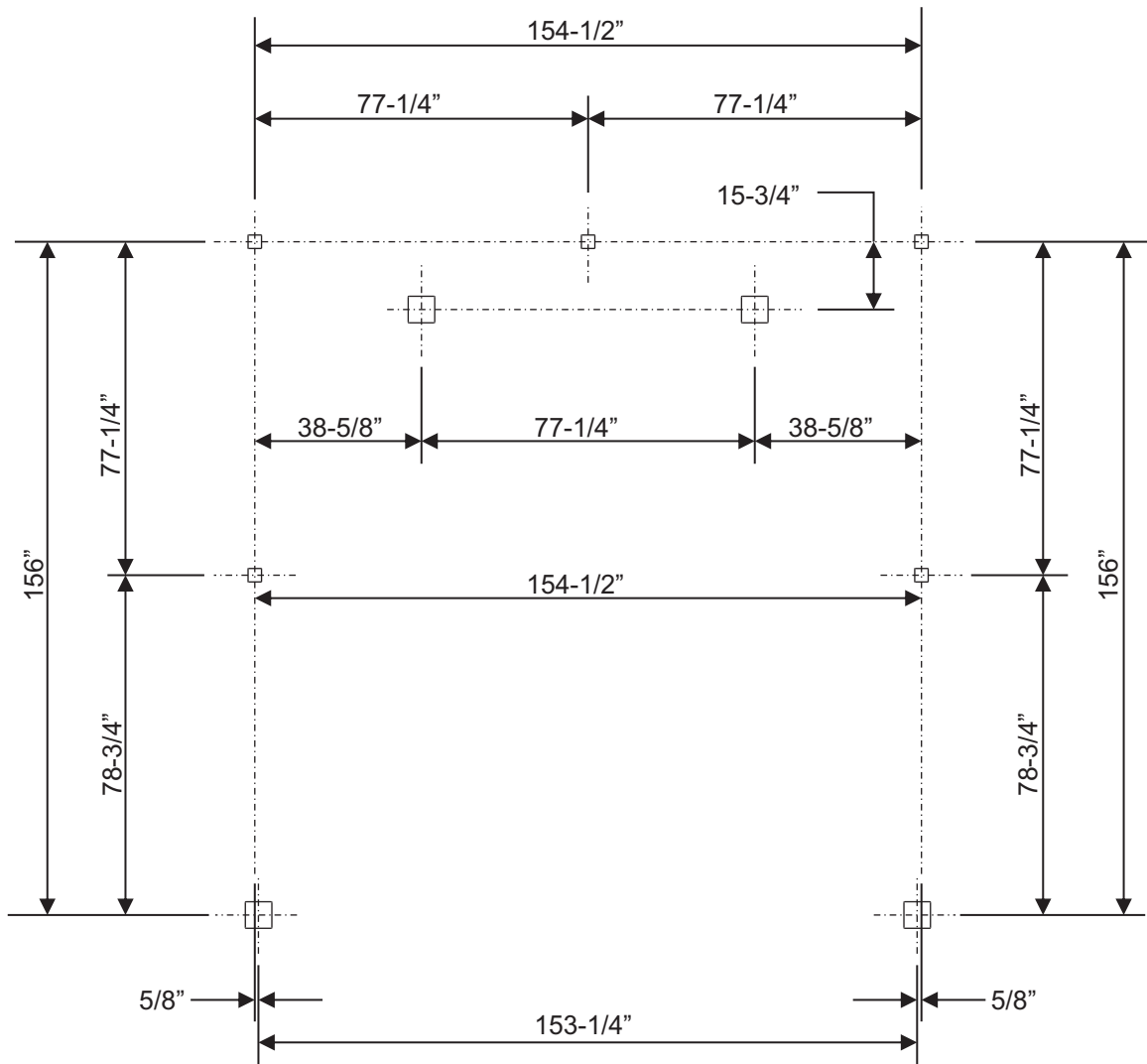
10mm nut driver, T-25 Torx bit, driver extension, (2) 3/4" wrenches, (2) 9/16" wrenches, M13 wrench, 9/16" drill bit, 3/4" drill bit, rubber mallet, level, post level, & personal protective equipment



Locate the Center of the Posts For Footings

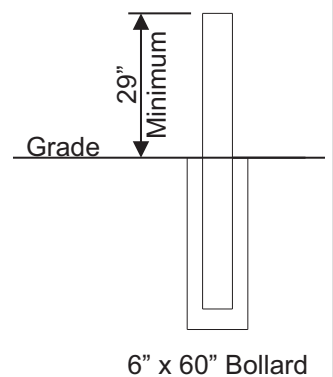
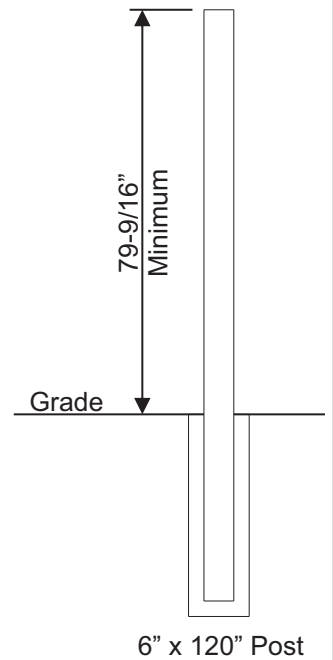
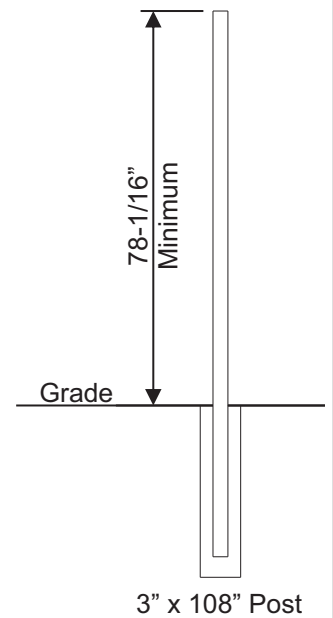
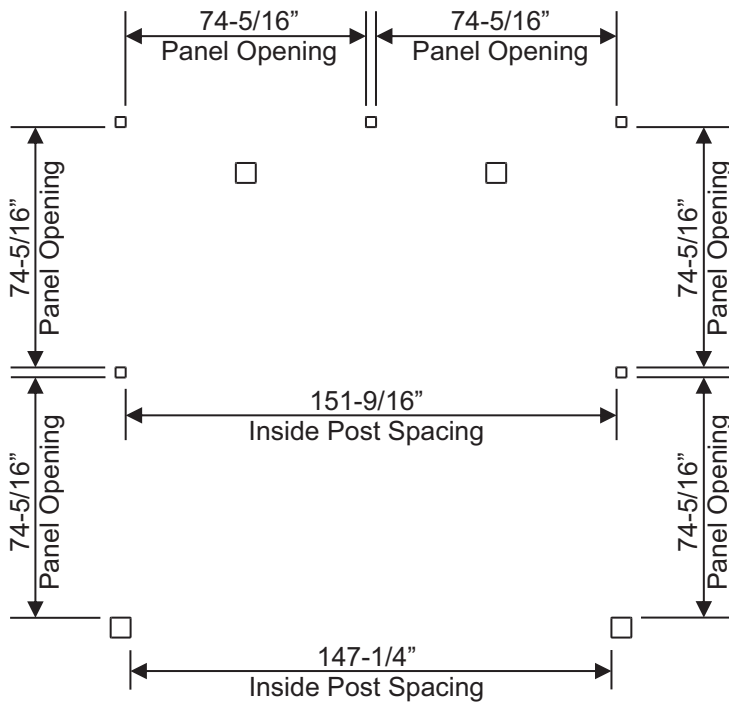
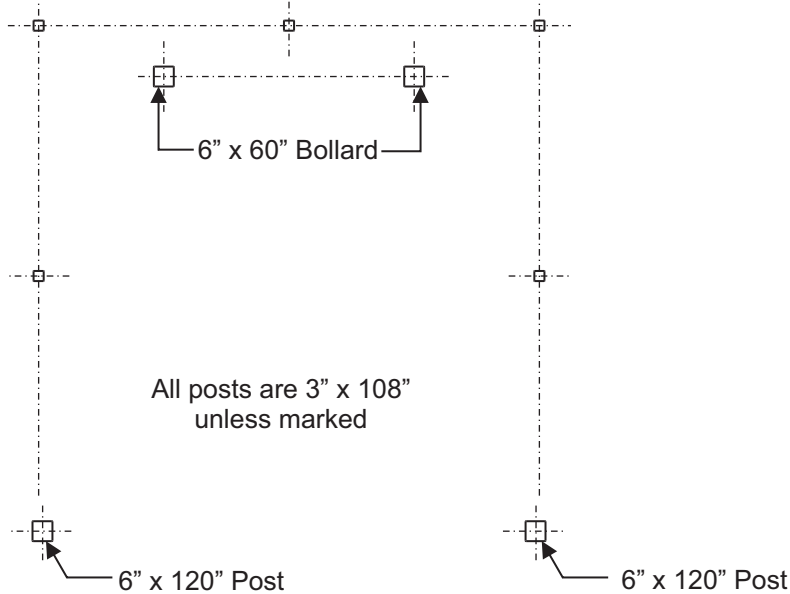
- Locate the center of each post using the drawing below.
- Refer to local building code to find hole size for a 3" and 6" post footings.

Call 811 before digging post holes to locate and identify any buried utilities.



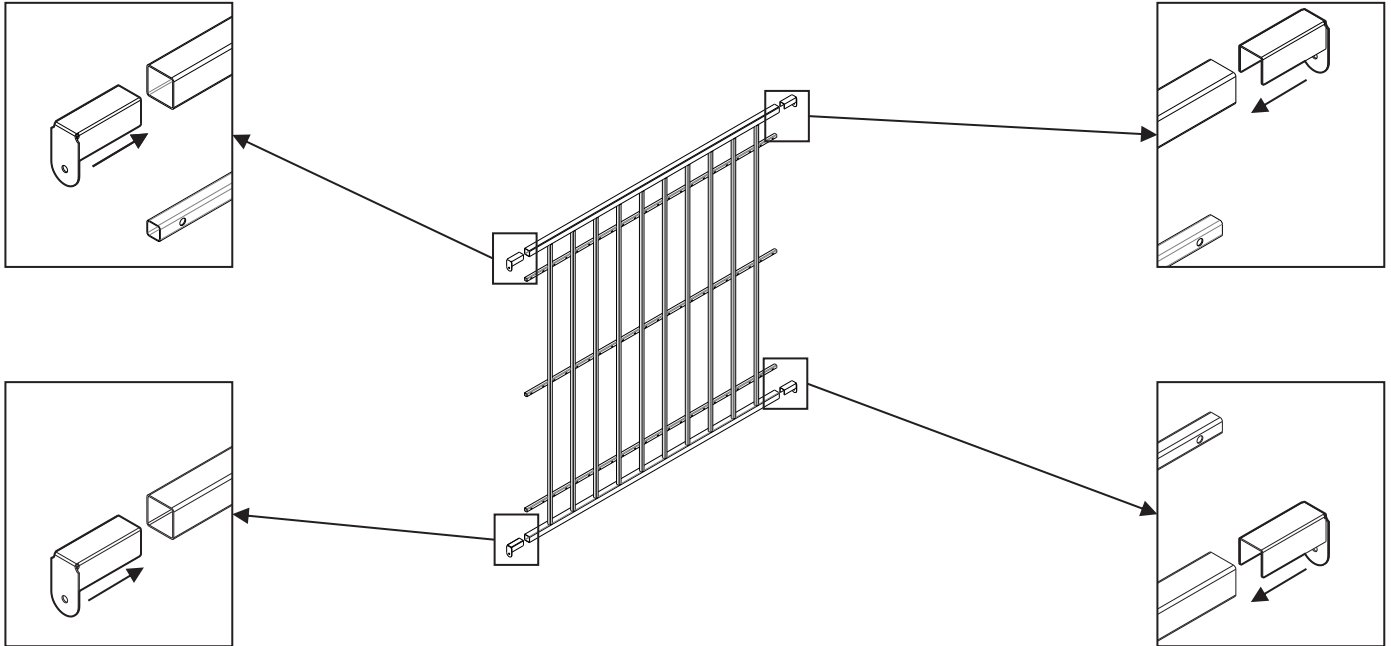
Post Sizes and locations

- Refer to image below for post locations
- 3" x 108" post must be 78-1/16" above grade at a minimum.
- 6" x 120" post must be 79-9/16" above grade at a minimum.
- 6" x 60" bollards must be 29" above grade at a minimum.



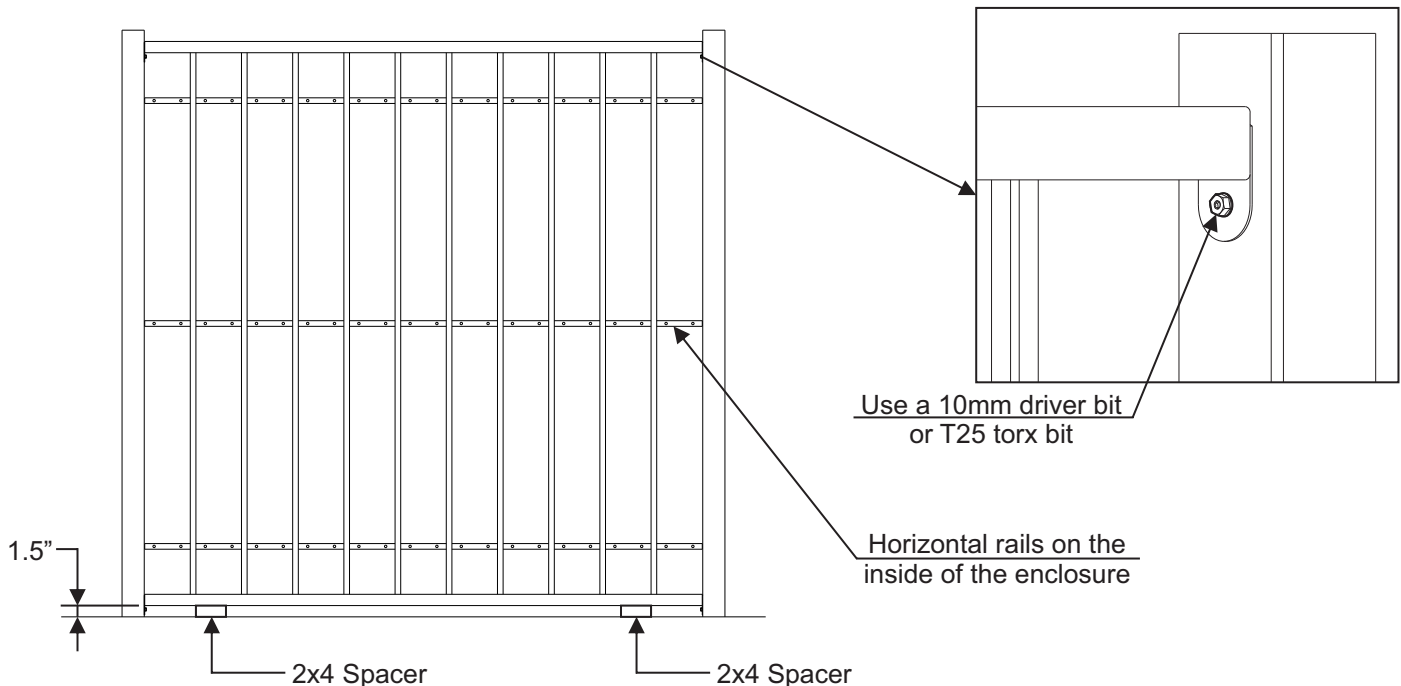
Installing HD-106-1.5" Brackets and Panels

- Install a HD-106-1.5" bracket into each corner of the panel.
- The screw hole must be facing down on all 4 brackets.



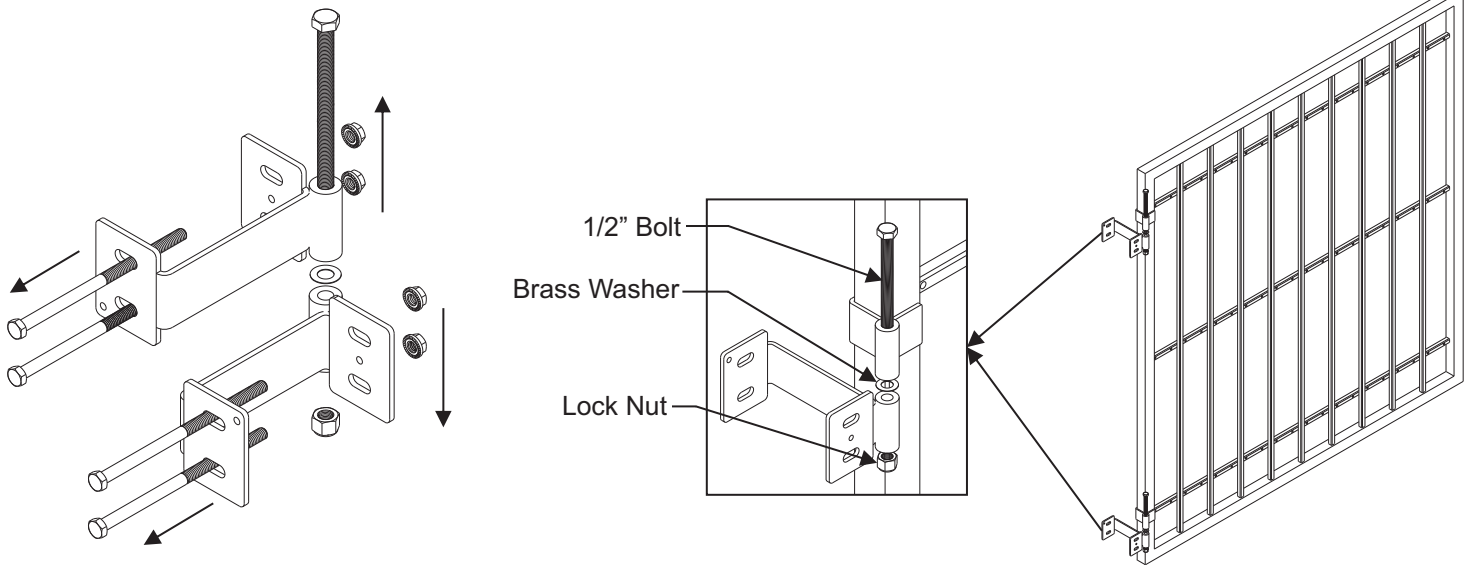
Installing HD-106-1.5" Brackets and Panels Continued

- Use a scrap piece of a 2x4 to space the panel 1.5" above the ground.
- With the HD-106-1.5" brackets installed on the panel insert the panel between the post.
- Center the panel on the posts.
- Use a level to confirm the panel is level and top edges are in line with each other.
- Using the provided screws install the brackets to the post with a 10mm driver bit or T25 torx bit.
- An extensions might be needed to install screws.
- Removed the 2x4 spacers and continue to install all remaining panels.



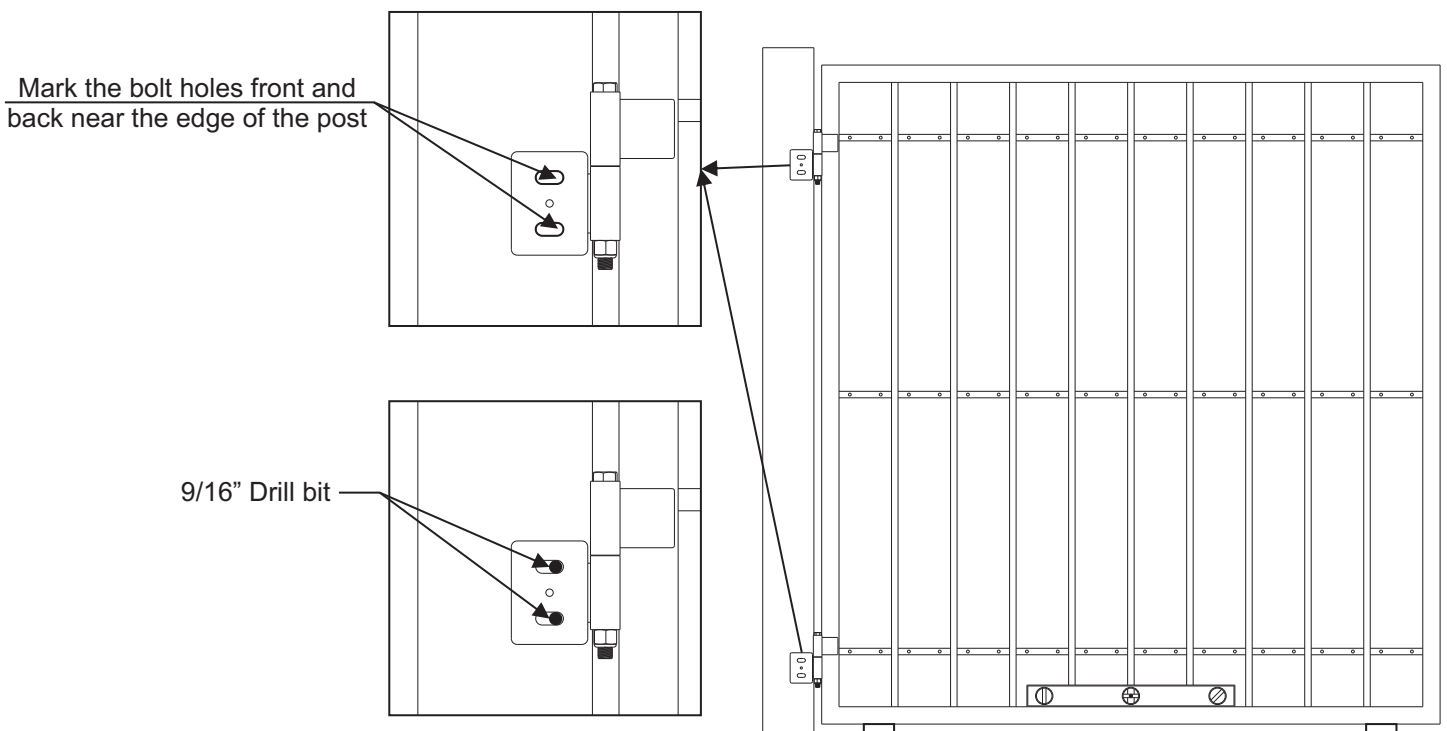
Installing 6" Estate Hinge and Gate Panel

- Disassemble 6" Estate hinge assembly.
- Remove the 1/2" bolt from the welded gate hinge.
- Re-assemble the 6" Estate hinge below the pre-welded gate hinge.
- Brass washer should be between the pre-welded gate hinge and 6" Estate hinge.
- Do not over tighten the bolt and nut. The hinge should move freely.



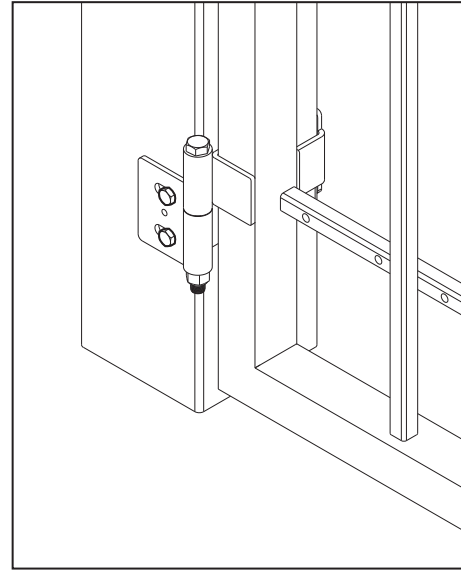
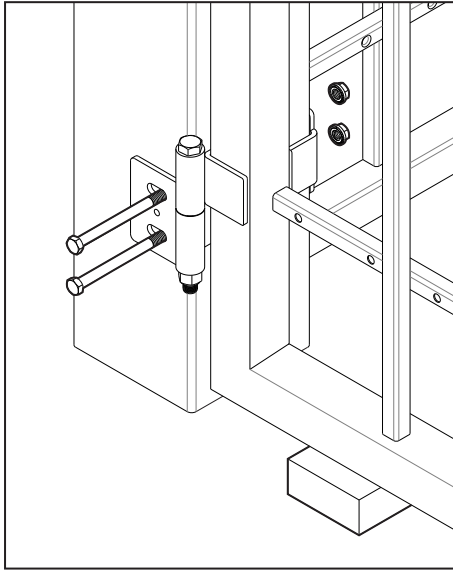
Installing HD-106-1.5" Brackets and Panels Continued

- Use a scrap piece of a 2x4 to space the gate panel 1.5" above the ground.
- Hold the gate up with the 6" hinge on the post to find the bolt hole locations.
- Mark the hole near the edge of the post near the gate panel.
- Use a 9/16" size drill bit to drill both sides of the post.
- Removed the 2x4 spacers and continue to install all remaining panels.



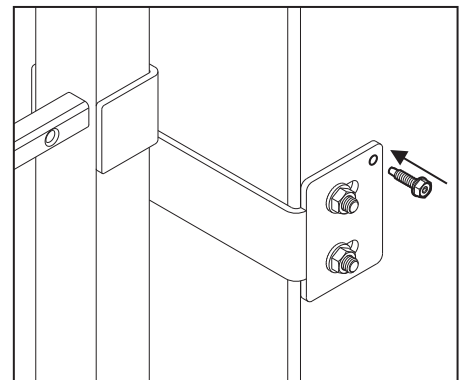
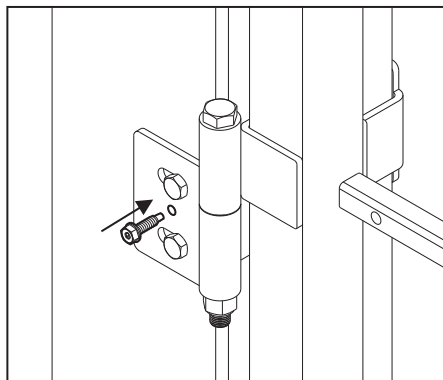
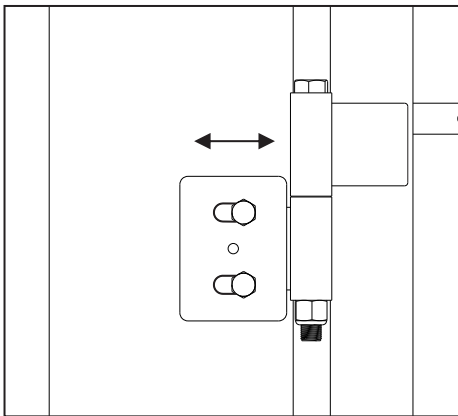
Installing 6" Estate Hinge and Gate Panel

- Insert the two 3/8" bolts into the clamp and through the post.
- Tighten the supplied flange nut.
- Remove the support blocks from under the gate.
- Confirm the gate is hanging level.



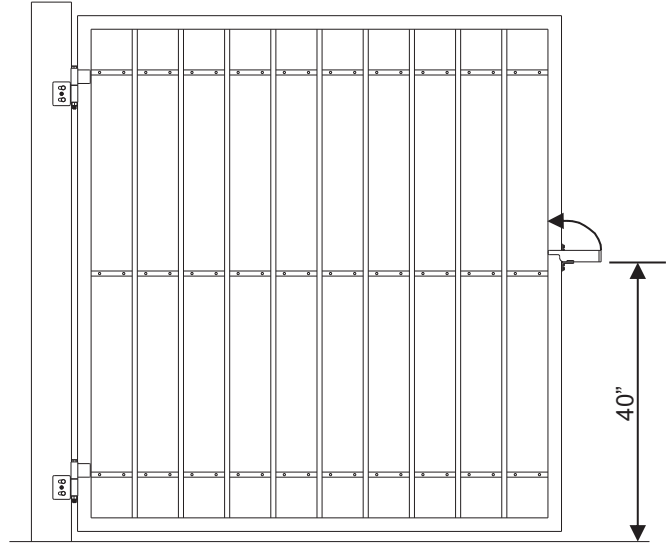
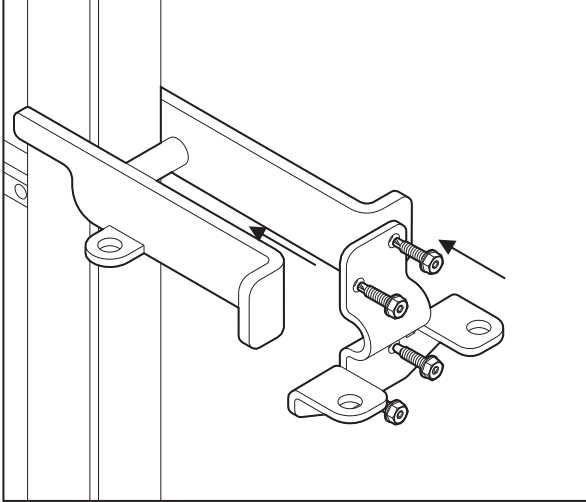
Installing 6" Estate Hinge and Gate Panel

- If the gate is not level loosen the bolts on the top or bottom hinge and rotate the gate until it is level.
- Once the gate is level re-tighten the bolts.
- Once all the adjustments have been made to the gates attach the 2 self drilling screws into the hinges to lock it place using a 10mm nut driver or T-25 Torx bit.
- Follow the same steps to install the second gate.



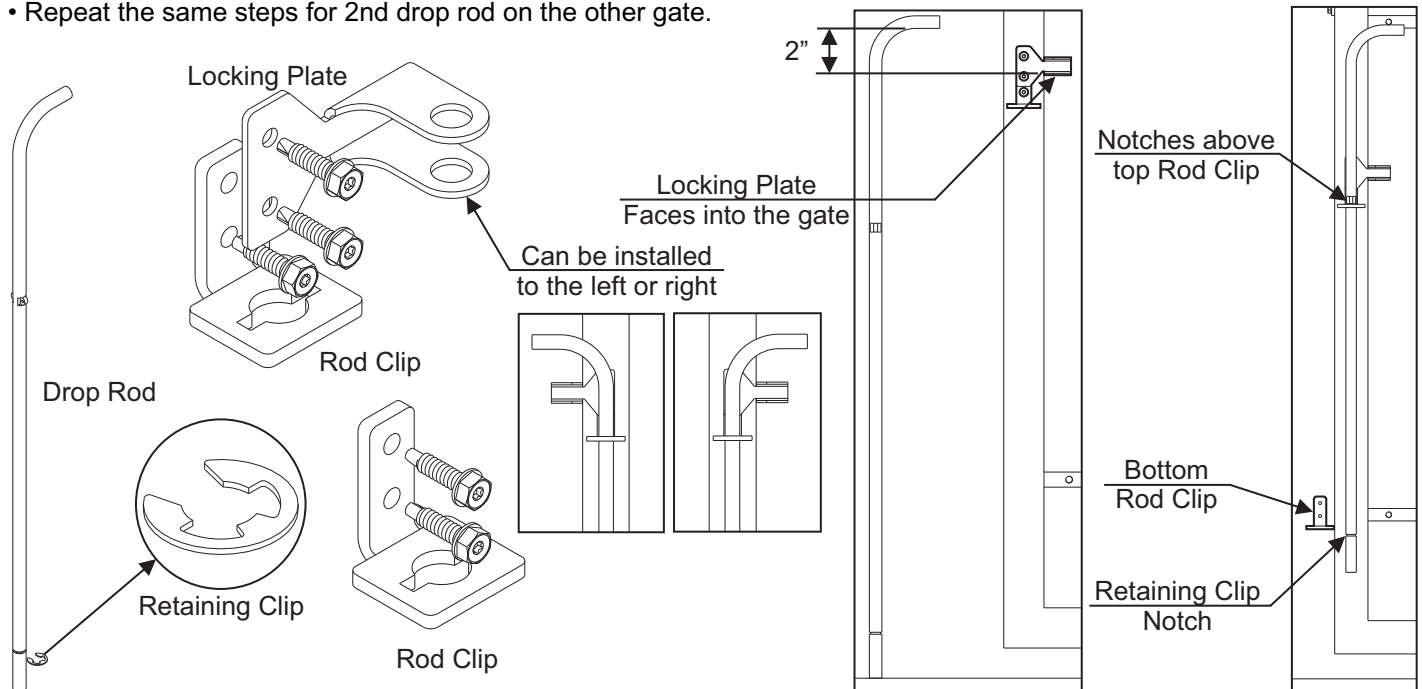
Installing The Estate Double Swing Gate Latch

- Install the Estate DSG Latch on the end of one of the 2" gate uprights.
- Using a 10mm nut driver or T-25 Torx bit attached the latch plate to the upright with the four (4) supplied screws.
- It is recommended the latch be installed at 40" above the ground.
- After installation confirm gate arm can swing up all the way.



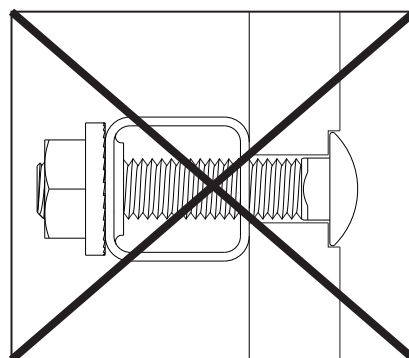
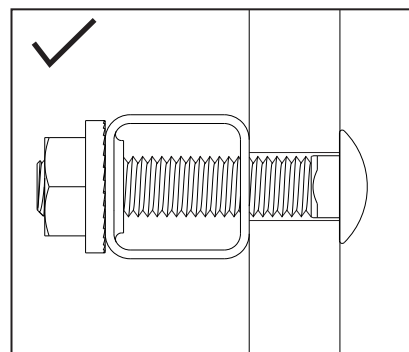
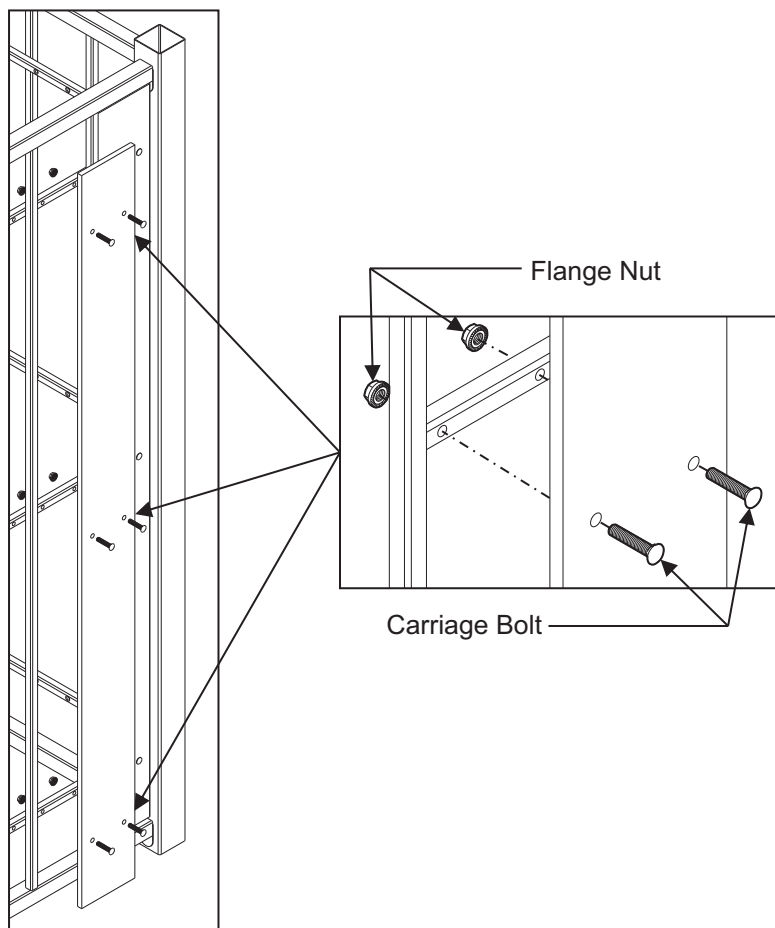
Installing The Estate Gate Drop Rod

- Use the drop rod to find the placement for the brackets. Place the drop rod on the surface standing up next to the gate upright.
- The locking plate should be mounted 2" below the bend in the drop rod. Center the Locking Plate and Top Rod Clip on the upright and install with the 3 provided screws using a 10mm Nut Driver or T-25 Torx bit.
- **Note:** The bottom hole of the Locking Plate and the top hole of the Rod Clip use the same screw.
- Insert the drop rod in the top Rod Clip.
- With the drop rod in the up position locate the bottom Rod Clip above the retaining clip notch in the drop rod.
- After the drop rod has been installed in both Rod Clips install the retaining clip below the bottom Rod Clip.
- Use a 3/4" drill bit drill a 3" hole below the drop rod when the gate is in the closed position.
- Repeat the same steps for 2nd drop rod on the other gate.



Installing Composite Pickets

- Center the composite pickets in the middle of the panel and gate openings.
- Used supplied fasteners to attached the pre-drilled composite pickets to the panels.
- Tighten all bolts down until the head of the bolts is flush with the picket.



Installing Post Caps and Cleanup

- Using a rubber mallet lightly tap the post caps down on all posts and bollard.
- Remove any metal shavings from the Estate Enclosure and work area.

