

# GATE INSTALLATION

## BUCKLEY STEEL BOARD GATE INSTALLATION WRITTEN INSTRUCTIONS

These instructions are for installing Buckley Gates on a new fence installation.

### REQUIRED MATERIALS

1. Auger with extension
2. Tape measure
3. Level
4. Line level
5. Crescent wrench
6. 8 mm allen key
7. Three 25 kg bags of quick setting concrete
8. Stretch wrap
9. Two 38 x 89 mm C24 timber for spacing gauge

### PARTS PROVIDED

1. 89 mm diameter gate post
2. Gate (includes bearing assemblies)
3. Gate cap
4. 160 mm M10 bolt
5. M10 hex nut
6. EZ Latch

## 1 PREPPING THE POSTS

1. To prep the fence post for installation, bend out the post anchor tab with a screwdriver, set of pliers, or channel lock tool to at least 45° and not more than 90°. (Figure 1)
2. To prep the gate post, slide the 160 mm M10 bolt through the pre-drilled hole to anchor the bottom of the heavy round gate post, then screw the M10 hex nut on to the bolt. (Figure 2)

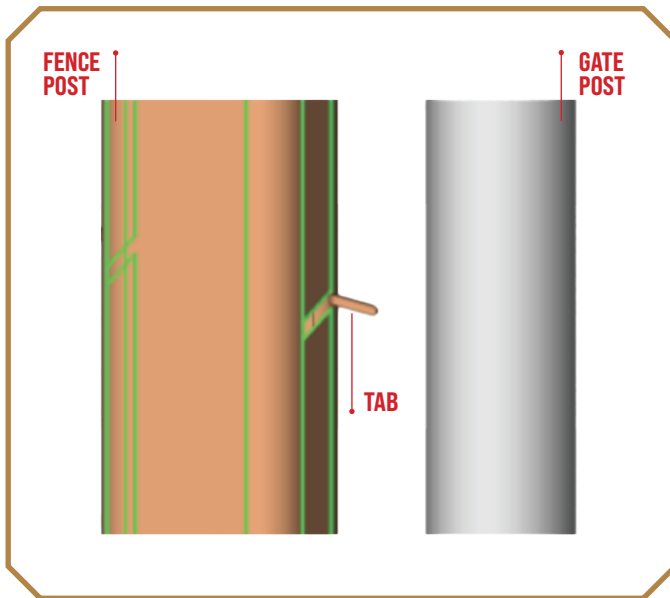


Figure 1

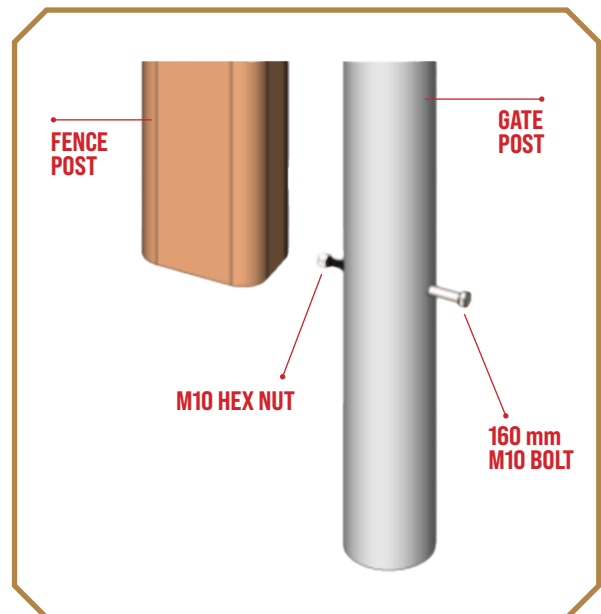


Figure 2

## 2 DIGGING THE HOLES

1. When digging the hole for both the gate and fence post, dig a hole 1.320 mm deep and 305 mm in diameter.\*\*\*
  - a. Hand digging will be required if the auger does not reach this depth or if close to an obstacle or electrical line.

When digging the hole for the fence post on the latch side of the gate, you will install it the same way as any other Buckley Fence post. These holes will be 1.092 mm deep and 305 mm in diameter. To learn more about digging the holes for standard Buckley Fence posts, please refer to our fence installation instructions on page 7.

## 3 SETTING THE FENCE POST & GATE POST

1. Set the gate post in the hole with a 76,2 mm gap to the fence post. Plumb and square the gate post using two 38 x 89 mm C24 pieces of timber which will provide spacing for the 76,2 mm gap.
  - a. Additionally, please note that the top of the gate post should be exactly 76,2 mm below the top of the fence post.
2. Wrap shrink wrap around the posts and 38 x 89 mm C24 pieces to hold them together. This will keep them together as the concrete sets (Figure 3).

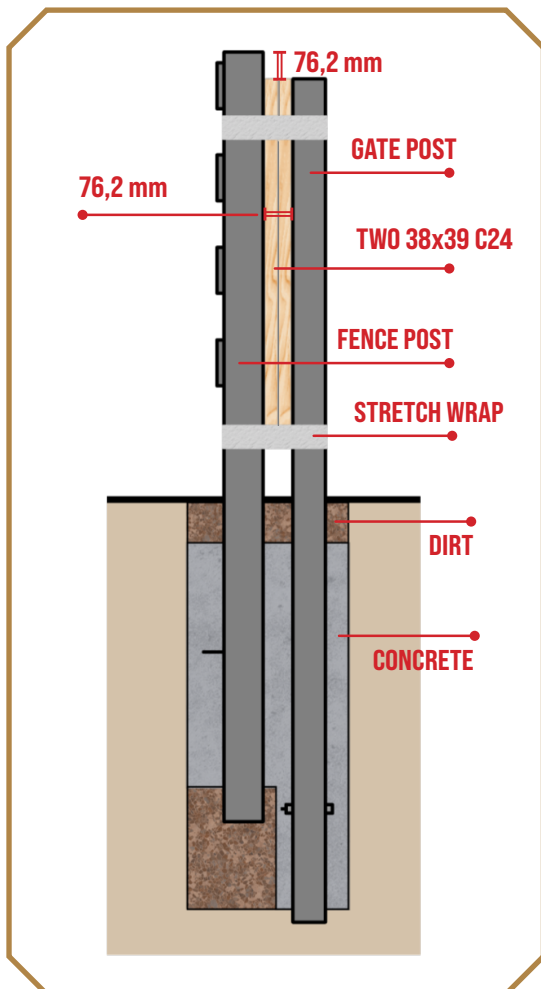


Figure 3



Figure 4

3. Either manually push the gate and fence post into the ground 25 mm - 50 mm, or use a dead blow hammer to tap them down.
  - a. Tapping the post down 50 mm enables drainage to the soil once the concrete is set. This is a critical step; enabling drainage prevents the post from filling with water, freezing, and fracturing the post.
2. Do this until you measure 1371,6 mm from ground to top of the gate post. The fence post height should measure 1447,8 mm. Ensure the distance between the posts' heights is exactly 76,2 mm and the gate and fence posts are square (Figure 4).



Figure 5

5. Depending on the gate size, measure the correct distance from the gate post face to the fence post face. No matter what size gate you're installing, gate post height is 1371,6 mm. Find accurate measurements for our gate dimensions on page 15. Dimensions for each gate size will vary.
6. Use a line level on your string line to ensure that the two fence posts are at the same height.
7. Pour approximately three 25 kg bags of concrete all the way to the bottom of the hole, stopping 50 - 100 mm below ground level.
8. Work concrete into the hole by using a steel rod to poke air out of the concrete. Avoid shaking the posts to work the concrete in since this can take them out of alignment.
9. After the concrete is poured, check again that the gate post is plumb and the height is correct in case of movement (Figure 5).
10. Once you're happy with the setting of the gate and fence post, fill the rest of the hole with dirt.

\*\*\*If you are installing a gate post next to an existing fence post or wall, you will dig a 1320,8 mm hole with a 254mm diameter adjacent to the existing fence post or wall. Gate installation in this scenario is otherwise similar to installing it with a fence post.

## 4

## ASSEMBLING AND LEVELING THE GATE

1. Wait 48 hours for the concrete to set before assembling the gate. Then, remove the 38 x 89 mm C24 timber and stretch wrap.
2. Lift the gate over the gate post. This can be done with a skid steer or lifted by a crew of 2-3 people (Figure 6).
3. Jiggle the gate to be sure the top bearing catches the top of the gate post. All of our gates have an upper and lower bearing. When the gate is placed on its gate post, the top will be seated firmly in the upper bearing inside the gate. Once seated, there should be very little play in the gate when lifting the end.



Figure 6

4. To rotate the lower bearing and level the gate, remove the two screws from lower bearing at the bottom of the gate. The two holes used to rotate the lower bearing are directly below the screw holes on the bearing (Figure 7).
5. To rotate the bearing, insert a 8 mm allen key into the pre-punched holes and pull (Figure 8).
6. While one person is rotating the lower bearing, a helper should be lifting the weight of the gate to allow for easy rotation of that lower bearing (Figure 9). Throughout this process, place a level on the top rail of the gate. Repeat the process of lifting the gate and rotating the bearing until the gate is level.
7. Once the gate is leveled, line up the empty bearing screw holes with the closest holes in the gate hub bottom, then replace the screws. Torque until tight.
8. Look down the fence line and judge the final position of the gate relative to the fence's top rail. The top rail of the gate should match the height of the top rail of the fence.
9. Screw the gate post cap on, either clockwise or counterclockwise. There is a locking mechanism on the gate post cap which locks with a quarter turn of the cap. The gate post cap will simply click into place. If you need to remove the cap in the future, simply rotate a quarter turn in either direction.
10. When the gate is level, opening and closing easily and quietly, you have finished assembly.





Figure 7

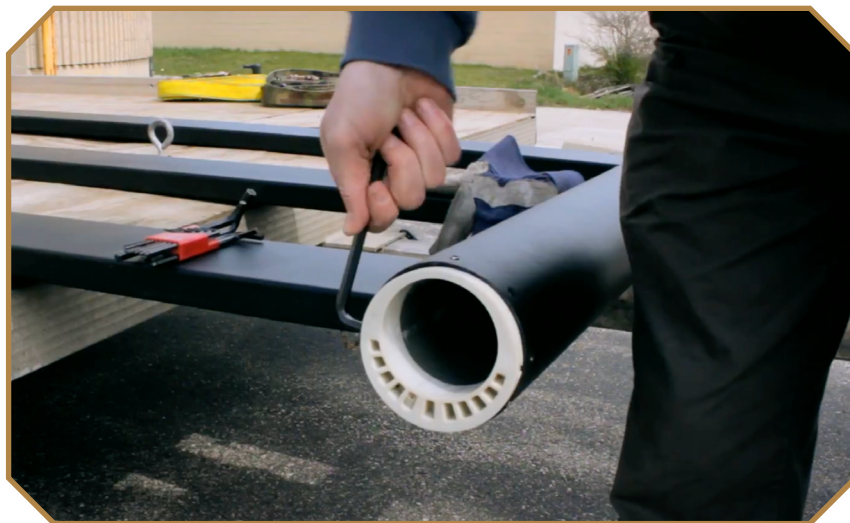


Figure 8



Figure 9