

# FRANKLIN

# DRIVEWAY GATES



## FUNCTIONAL, DURABLE AND VISUALLY APPEALING, FRANKLIN DRIVEWAY GATES WILL ENHANCE THE ENTRANCE OF ANY PROPERTY

These robustly constructed gates feature a modular design that allows customers to pick and mix between different width, height and swinging options. Options range from a single gate - 1.82m or 2.13m in length and 1.2m high - right up to a double-gate solution that will span up to 4.27m and with a top panel added, stand 1.8m high.

### HANGING A DOUBLE GATE

Single gates are relatively easy to install, but hanging double gates can be a tricky business. So unless you've got sound building or fencing experience, it's probably best to leave this job to an expert fencing contractor ([www.fencingcontractors.co.nz](http://www.fencingcontractors.co.nz)). However, if you're confident you have the skills and the patience to give it a go yourself, here are some tips for mounting two 6ft (1.825m by 1.2m) Driveway Gates to conventional timber strainer posts.

### FIRSTLY, CHECK OUT THE SITE

It's important to take a good hard look at the planned site for your new Driveway Gate.

If the site slopes, you will need to consider how much ground clearance your gate will have when they are in the fully open or closed positions. For a level site, a minimum ground clearance of 100mm beneath the gate (when closed) should be sufficient. But in the case of a steeper driveway, your gate may need to be mounted higher to ensure they swing properly. Just as importantly, you also need to check that your driveway is wide enough to accommodate a double gate system. A typical double gateway (including two 1.825m gates and two 200mm diameter strainers) will span over 4m. When measuring up, remember to allow gaps for the gudgeons at the hinged end of each gate. And allow for a gap of about 30mm between the two gates when closed.

You will also need to consider which way you want the gates to swing. Most people will want their gate to open away from the road, so think about the final resting position for the gate once it is fully opened.

### BEFORE YOU START: FIND SOME TOOLS AND SOME MUSCLE

Installing a double gate is easier with two people, so find a good helper. And allow plenty of time to do the job properly.

## THE FOLLOWING TOOLS WILL ALSO BE REQUIRED:

- A good spade or posthole digger
- Post rammer
- Heavy hammer (for driving in gudgeons)
- Spanners (for tightening gudgeon nuts)
- Hacksaw
- Power drill, or brace and bit
- 20mm auger drill bit (assuming a gudgeon diameter of 20mm)
- Tape measure
- Pencil
- Level
- Safety gear – earmuffs and safety glasses

## SELECT YOUR STRAINERS

Ask your timber merchant to provide you with two evenly-shaped round strainers, with a minimum S.E.D (Small End Diameter) of 200mm. A strainer that is 2.4m in length should do the job in most cases, but if the gateway site slopes sharply it might pay to choose a longer length.

## GOOD GUDGEONS ARE A MUST



When mounting gates to timber strainers it's best to use Through Post Gudgeons, which go all the way through the strainer for extra strength and adjustability. Greyson or Franklin Lock Thru Post Gudgeons (with a hook-like 'locking tail' under the pin) are a good choice as they won't twist in the strainer. Each gudgeon needs to be long enough to easily pass through the centre of the strainer, comfortably allowing enough excess to attach and adjust the outer nut.

## SAFETY FIRST

Before you dig any post holes, make sure there are no underground services (such as water mains and electrical cables) in the immediate area.

## START DIGGING!

It might be a good idea to put in one strainer first and then hang the first gate. Once this gate is correctly positioned you can use it to determine the height and position of the second gate and strainer. Dig a hole that is around 1100mm deep, insert the strainer and compact the back-fill tightly. Use a level to ensure the strainer is straight up and down.

## GET YOUR GUDGEONS RIGHT



Correct gudgeon positioning is vital for successful gate-hanging. Start by deciding the best angle for the top gudgeon; this will depend on the direction you want the gate to open. Positioning the gudgeons on an inwards angle (see photo) will allow the gate to rotate back further when opened. Mark the desired angle on the top of the strainer post (remember, the gudgeon should go right through the centre of the post) then use a level to draw a vertical line down the face of the strainer so that the top and bottom gudgeon holes will be correctly aligned. Ideally the top of the gate should be level with the top of the strainer, so the centre of the hole for the top gudgeon will typically be about 230mm from the top of the post.

Use a level to check the drill bit is horizontal before starting to drill. Drill the gudgeon hole then hammer the gudgeon through the post. Don't forget to remove

the outer nut and washer first! Check that the Lock Thru Gudgeon's locking tail is vertically aligned with the gudgeon pin. Mark its position and drill a second hole about 60mm in depth to accommodate the locking tail. Replace the outer nut and washer and hand-tighten. Measure the position for the bottom gudgeon very carefully.



The gap between the centre of the top gudgeon hole and the centre of the bottom gudgeon hole should match exactly the distance between the hinges on the gate. Drill this hole on the same angle as the top gudgeon (positioning the gudgeon on the ground as a guide may help). Again, check that the drill bit is horizontally level before you start drilling. Insert the gudgeon, mark and drill the hole for the locking tail. Insert the locking tail and hand-tighten the gudgeon's outer nut.

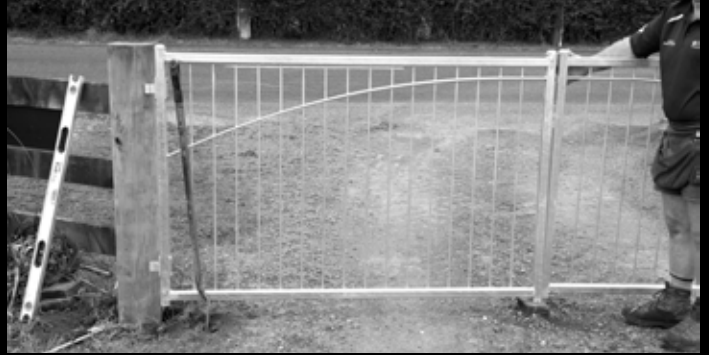
## HANG YOUR GATE!

Now mount gate number one. Each gate hinge should sit squarely on the lugs of the gudgeon pins. Place a level on the top of the gate. If it isn't horizontally level, make adjustments by loosening or tightening the gudgeon nuts. Once the gate is 'square', tighten all gudgeon nuts and remove excess gudgeon shaft using a hacksaw.



## TIME FOR STRAINER NUMBER TWO

With the first gate swung into the 'closed' position, use your helper to temporarily set up the second gate so that it almost butts up against the first.



Use timber offcuts and/or a spade to get the second gate level with the first. Remember to leave a slight gap between the ends of each gate when in the closed position. Also allow another gap for the gudgeons at the hinged end of the second gate. Mark the second strainer's position, dig the second hole and position the strainer firmly, checking its height is level with the first strainer. After measuring very carefully, mark out the gudgeon positions and angles. Install gudgeons in the same manner as previously mentioned. Hang the second gate and adjust its level using the gudgeon nuts. The second gate should now sit level with the first, with a nice parallel gap between the two gates when closed. Tighten all gudgeon nuts and install a gate latch fitting. To add a good finish to the strainer posts, bevel the top edge using a rasp.

## STAND BACK AND ADMIRE

The job is done! Your Driveway Gate is installed and it looks great.

