SOUTHERN GATES LTD

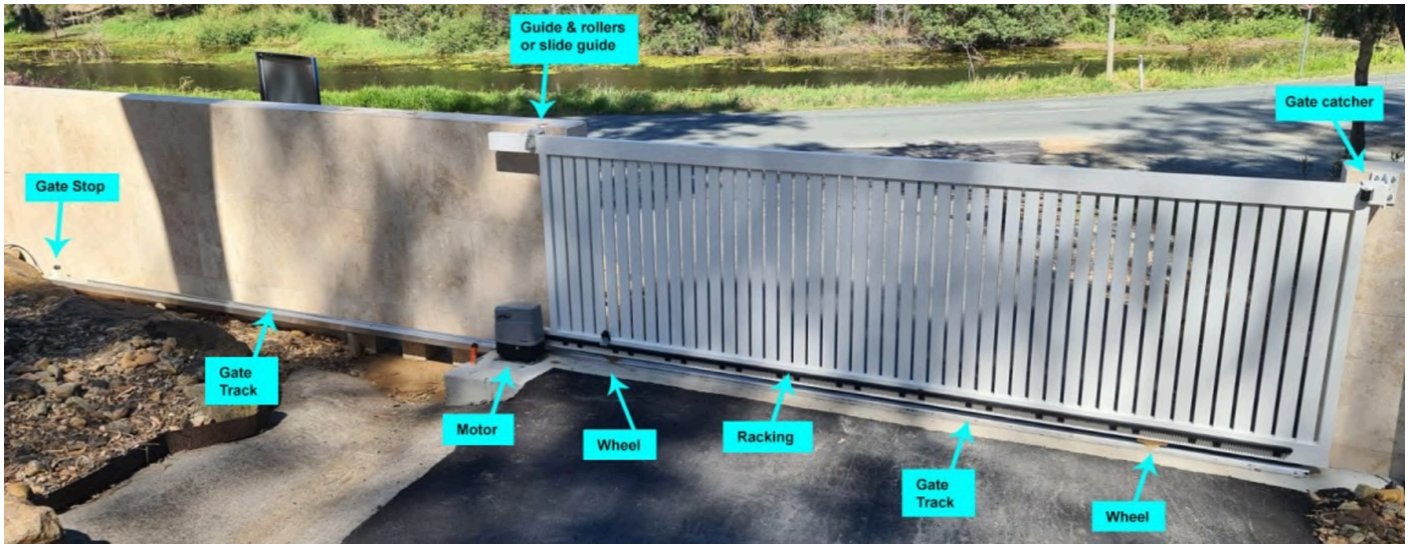
SLIDE GATE INSTALL MANUAL

Installation Scope Disclaimer

This manual outlines a standard installation procedure based on typical site conditions. As every property and installation environment is unique, certain instructions or recommendations may not apply to your specific site. It is the installer's responsibility to assess site conditions and determine the suitability of the installation method for their particular application.

Typical Slide Gate Layout and Components

Overview:



End catch assembly:

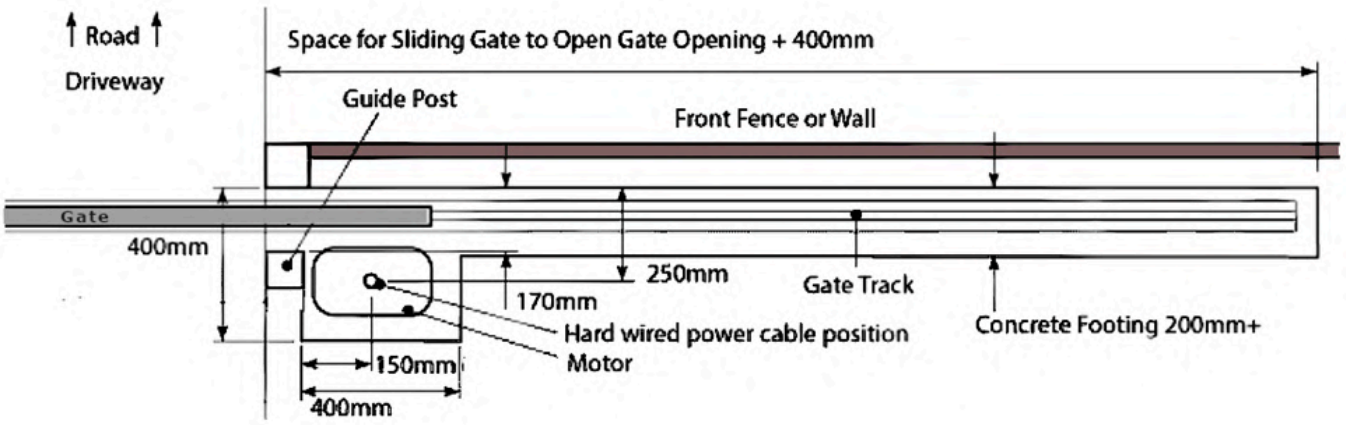
Two options for configuration:

A: Butt into end the post

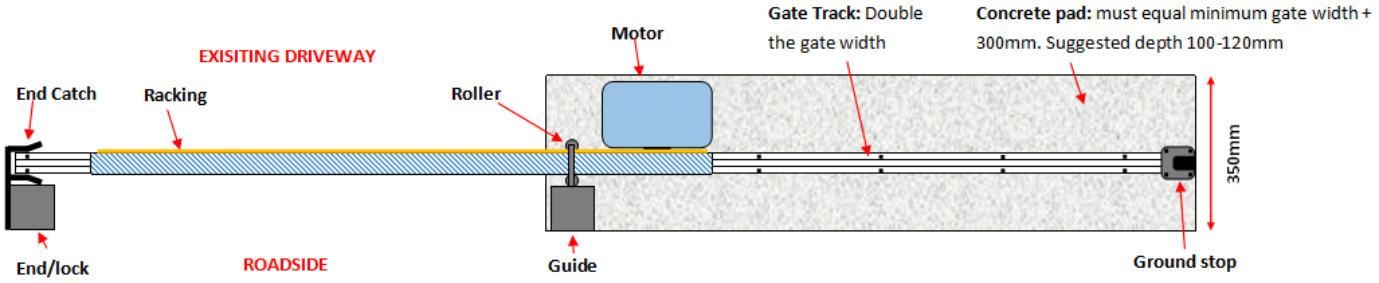
B: Slide behind the post (most common setup)

Top down layout and typical measurements

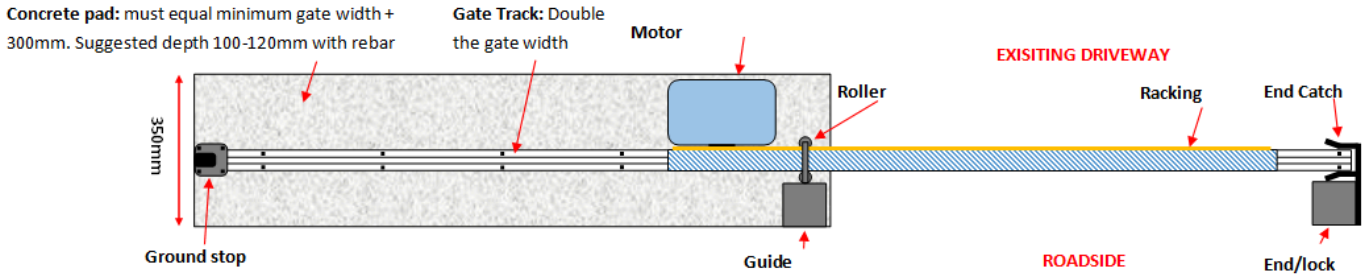
- The configuration of your gate may be the opposite (Mirror image) to the below layout
- You will not require a guide post, if your fence is robust because the guide rollers can be mounted to this.
- It isn't necessary to adhere to the below figures precisely and every property differs slightly.



Right Hand Opening Gate



Left Hand Opening Gate



Manual Slide Gate Installation (step-by-step)

> ⚠️ **Read this entire Part 1 before you start.** Only move to automation after the gate runs smoothly by hand.

High level steps - if you are confident with the install, and just want a basic overview.

1. Lay concrete foundation
2. Attach guide roller bracket
3. Mark Track location
4. Attach gate wheels
5. Position gate - confirm track location - remove gate - anchor track down
6. Reposition gate - adjust guide rollers and fasten securely
7. Fit ground stopper and end catch assembly
8. Test operation

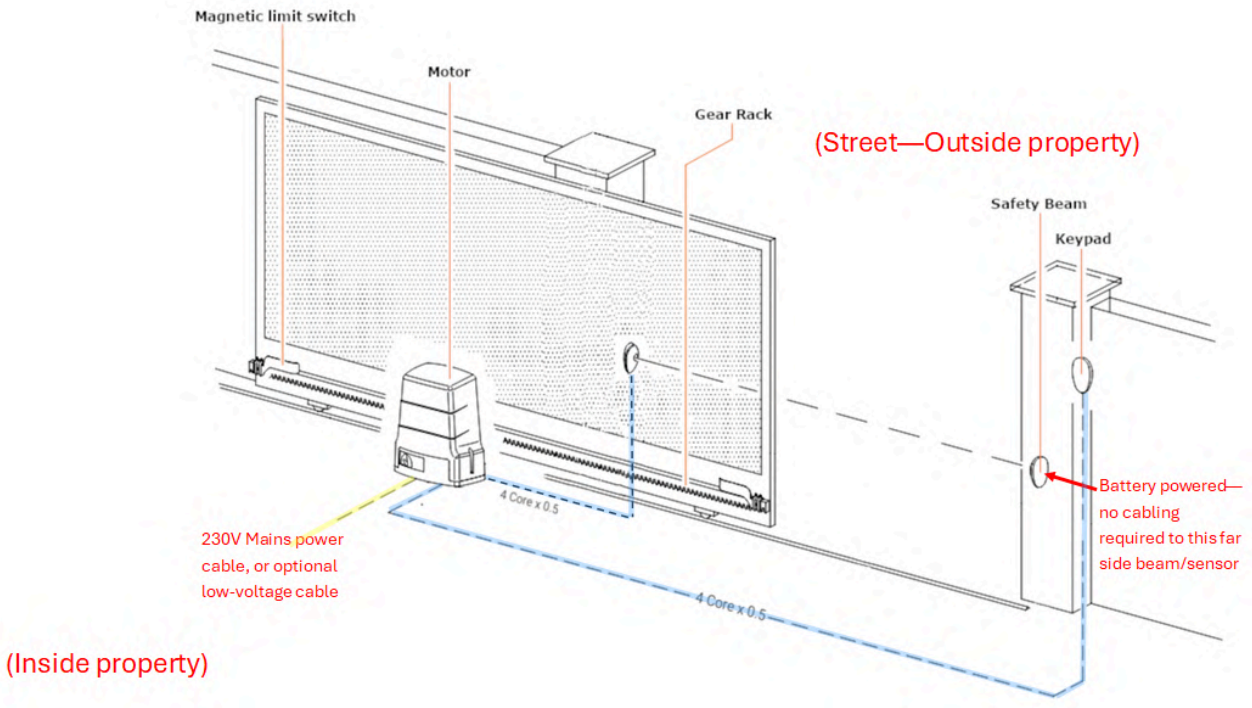
Detailed steps - we suggest everyone read the steps below

Step 1 — Site Preparation

1. Mark the gate opening and sliding direction with pegs or spray paint.
2. Ensure the sliding area is clear of obstructions for at least **1.5 × the gate opening width**.
3. Install pre cabling and/or conduit and draw wire for electrics (Even if you're not considering having your gate automated with a motor, it's smart and relatively low-cost, to add this cabling now for future proofing.

   The below diagram shows the layout of components for a basic automated gate and wiring requirements:

   - Wireless keypads are an option saving you the need to run cable for these if is going to be difficult/costly
   - Cable only needs to be run to one safety beam—the other beam operates with a battery.



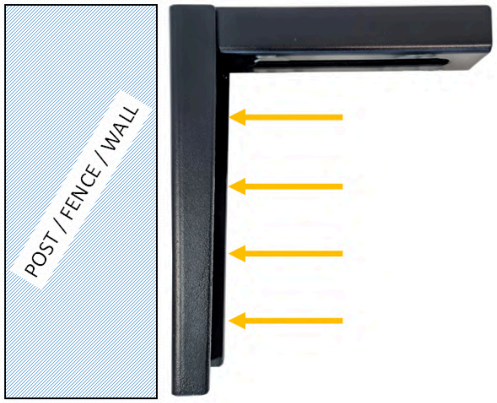
4. If needed, pour a **concrete strip footing** for the track

   (We do not recommend attaching the track directly to asphalt driveways. Asphalt is too malleable and does not provide adequate anchoring support for the track.)

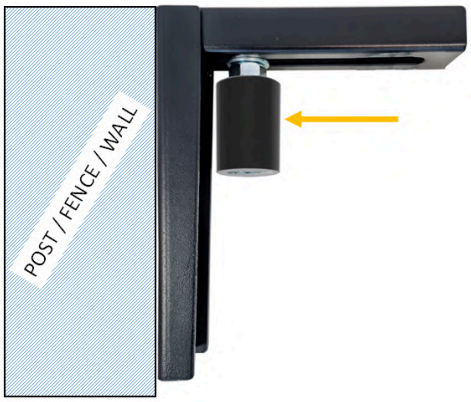
   - Minimum 200 mm wide × 150 mm deep
   - Long enough for the full travel of the gate - plus an additional 200mm, beyond the end of the gate on the opening side, with the gate fully open - this is to mount a ground stopper.
   - Widen to 450mm where the motor will sit (If allowing for this) - see top down layout and dimensions on previous pages for guidance
   - Run a string line to keep the footing straight and level.
   - Include a length of rebar for reinforcement
   - Ideally allow **7 days curing time** before attaching hardware or installing the gate.

Step 2 - Guide Roller bracket

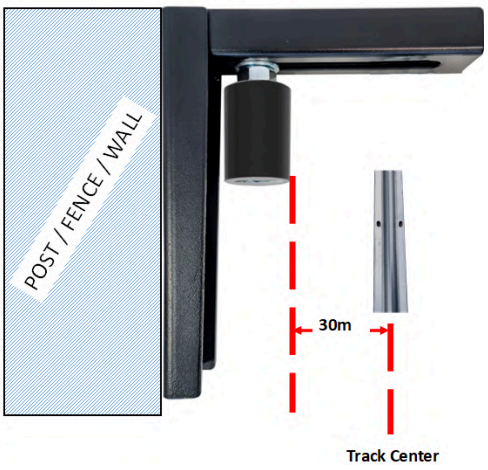
1. Attach your guide roller bracket
   a. Use min 50mm coach bolts if attaching to timber, or min 12g x 20mm Tek screws if attaching to metal. (Note SGL do not supply these fasteners)
   b. Ensure the height of the bracket allows the gate to pass underneath the bracket
      i. Taking into account the finished height of the gate once sitting on wheels and track.
      ii. Taking into account this height may change as the gate rolls fully close - fully open (Unflat ground), so ensure the bracket clears the bracket at its highest point.



2. Fit the inside guide roller only, and tighten.



3. Take the inside point of this guide roller, and transfer its position down to the concrete - from this point, measure 30mm inwards (towards property) and mark this point as the center line for your track and run a string line or laser to identify this point at the closing and full open points of the gate. *Do not fix track yet though - following the next steps first.*



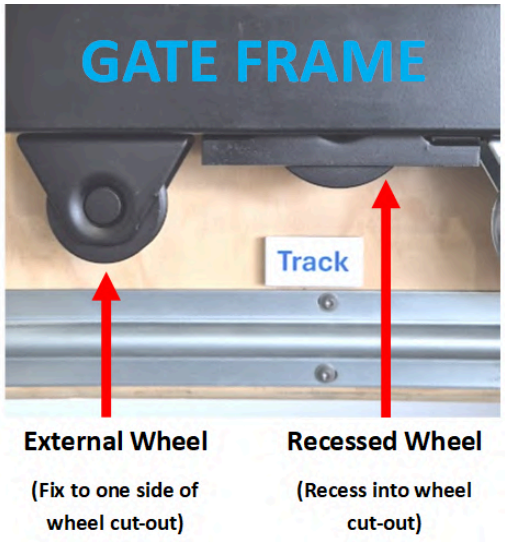
Step 3 — Fit the wheels to the gate

1. Lay the gate gently on its side on timber packing so paint/finish is protected and the base is accessible.

2. Locate the wheel mounting cutouts on the base of the gate - and depending on the wheel type you are using;

    - **Recessed wheels:** you will see cutouts on the base where the wheel sits into the gate profile. Install the wheel so most of the wheel recesses into the hole.

    - **External-bracket wheels:** mount the wheel/bracket adjacent to the cut outs.



3. Use the **tek screws supplied,** fasten the wheels taking care to ensure they are aligned with the gate frame

    - **Careful — do not overtighten tek screws. Release your driver/drill trigger as soon as the screw thread "bites" the metal**, then finish tightening slowly. Over torquing/tightening can strip the metal or distort the wheel mount.

Step 4 — Position the track

1. Lay the track sections along your marked center line (under the string line), but **do not anchor this down yet**.

2. If you are confident of your tracks final position, you can anchor it down

   or

3. If you are *not* confident of your tracks final position, follow the steps below;

   a. Carefully lift the gate onto the track so it sits on the wheels. With the gate sitting on the track, **check its position relative to your fence line and closing point**. Roll the gate from full open to closed positions. If the gate's position needs adjusting, carefully shunt the gate and track together until it sits correctly in relation to the fence/post.

   (WARNING - be careful not to let go of the gate as at this point it is not being held up by any guide rollers)

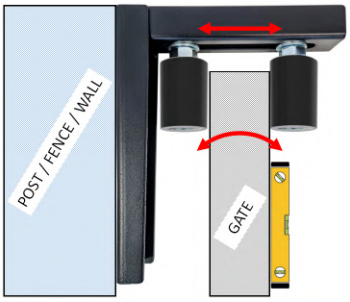
   b. When you're confident of the gate position, **mark the track location** onto the concrete/footing (scribe or mark anchor hole positions).
   c. Carefully remove the gate from the track and set it aside
   d. Now anchor the track down permanently using the supplied expansion anchors - ensure the track remains straight and level as you fix it, and that separate track sections are butted up to each other.

Step 5 — Position the gate and adjust guide rollers

1. Carefully lift and set the gate back onto the anchored track.

2. Fit the inside roller and finger tighten this making sure there is at least a 2mm gap between the roller and the gate, to prevent it binding up.

- Put a spirit level on the side of the gate, to check it's vertical - adjust guide rollers if necessay



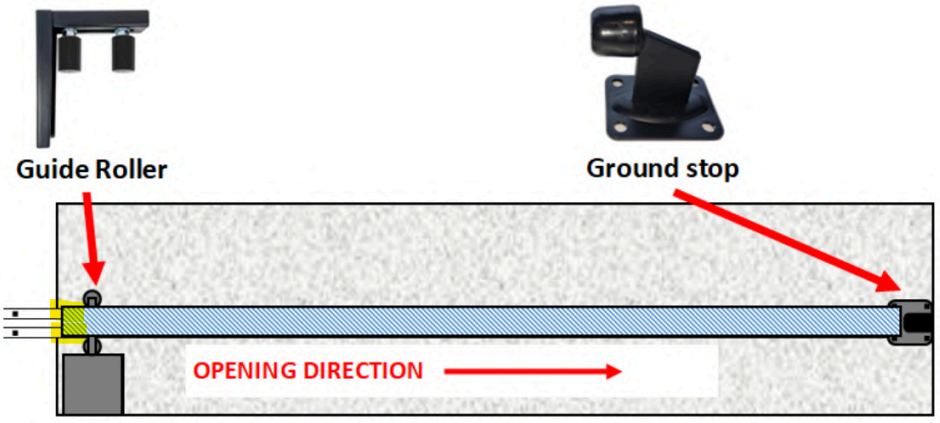
3. Slowly roll the gate fully open and fully closed while watching for:

   (*WARNING* - be careful not to slide the gate along so it rolls out of its rollers and falls over)

   - Misalignment or dragging on one side
   - Lateral wobble or jumping the track
   - Any rubbing on posts/fence

Step 6 — Fit ground stopper

1. Carefully roll the gate fully open so that it clears the driveway opening, but stays within the top guide rollers - we suggest a minimum of 100mm here



2. Fix the ground stopper in place - use masonry anchors, minimum 70mm long

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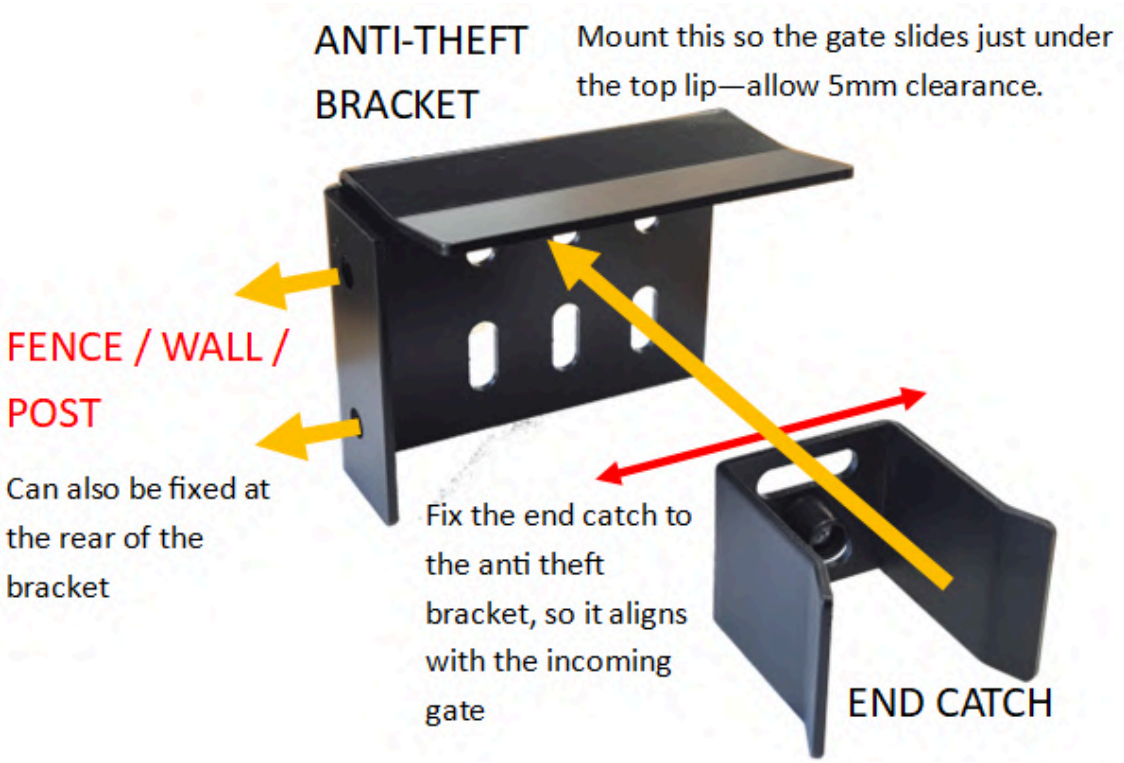
Step 7 — Fit end catch assembly

There are two main configurations for the end catch

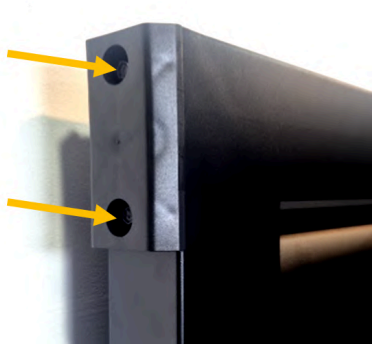
A: Butt into end the post

B: Slide behind the post (most common setup)

1. Carefully slide the gate into its closed position to determine how it meets your fence/wall/end post, then mount the anti theft bracket so that the top of the gate slides just under the top piece - as pictured.



2. Fix the gate nose to the end of the gate using supplied tek screws - careful not to overtighten the screws



3. Carefully slide the gate into the end catch to ensure it lines up - adjust if necessary

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Step 7 — Install lock/latch if required

Depending on your situation;

Manual sliding gates (No electrics)

If you're not installing electrics to automate your gate, you'll want to fit a lock/latch to secure the gate closed when shut - there are a few options available and it's best to discuss these with us so we can help determine the best one to use.

Automatic sliding gates (Motorised)

If you are fitting electrics to automate your gate - the motor will lock the gate securely in place when closed, and there's no need to fit a separate lock/latch.

Manual now, but may motorise in the future

You'll likely want some sort of lock/latch, but keep in mind that if you do decide to add electrics in the future - any manual lock/latch fitted would then become redundant and need to be removed, leaving marks/holes where they were fitted.

Step 8 Complete Final checks

- Check both ground stop on the opening side, and end catch assembly are secure and stop the gate safely preventing it from sliding outside the guide rollers
- Chat that the gate rolls smoothly by hand for full travel from closed to open to closed.
- Check that there is no binding, no significant side-to-side play, and wheels track correctly.
- Check that the guide rollers support the gate and 2–3 mm clearance is maintained between roller and gate

Guides for fitting Gate Automation and Electrics

All of our gate motors are supplied with the manufacturer's factory installation manual. These manuals provide detailed, brand-specific instructions for proper installation and setup. As each motor is unique, we do not provide a generic automation installation guide.

We are happy to offer after-sales technical support via phone and email to assist you during your installation.

Additionally, we work with a large network of experienced and reputable installers and can recommend a professional in your area. They can provide:

- **Complete, start-to-finish installation** – A fully hands-off service covering the entire gate and automation setup.

- **Automation installation only** – If you are confident installing the gate and ensuring it operates smoothly manually, one of our trusted installers can complete just the electrical automation portion. This option can help reduce overall installation costs.

Limitation of Liability

The information provided in this manual is intended as a general guide only. While every effort has been made to ensure accuracy, Southern Gates Limited accepts no responsibility or liability for any loss, damage, injury, or expense arising directly or indirectly from the use of this manual or the installation, operation, or misuse of any products referenced herein. Installation should be carried out by a competent and qualified individual. By proceeding with installation, the installer accepts full responsibility for compliance with all applicable safety standards, regulations, and site-specific requirements.