Car Park Swing Barrier

2.2M HIGH X 3.0M WIDE DOUBLE SWING BARRIER WITH HIGH LEVEL SWING ARM KIT	SWI-KIT-3010
2.2M HIGH X 4.0M WIDE DOUBLE SWING BARRIER WITH EXTENDED HIGH LEVEL SWING ARM KIT	SWI-KIT-3020
2.2M HIGH X 5.0M WIDE DOUBLE SWING BARRIER WITH HIGH LEVEL SWING ARM KIT	SWI-KIT-3030
2.2M HIGH X 6.0M WIDE DOUBLE SWING BARRIER WITH EXTENDED HIGH LEVEL SWING ARM KIT	SWI-KIT-3040

Operations, Maintenance & Installation Manual

Proudly Compliant with:

Proud to work with our partners

This manual provides a comprehensive overview for the installation, operation, and maintenance of the First Fence Car Park Swing Barrier product line. The range of four car park swing barriers have been specifically designed to provide a safe, controlled, and secure method of regulating vehicle access in car parks and restricted areas.

For safe operation, users should ensure the barrier is fully opened or closed before vehicle movement. Care should be taken to avoid rapid or uncontrolled movement during use.

Routine inspection and maintenance should be carried out to ensure continued safe operation. This includes checking hinges, pivot points, locking mechanisms, and fixings for wear, damage, or loosening. Any issues identified should be addressed promptly to maintain security, functionality, and longevity of the barrier system.

Disclaimer: This guide is for informational purposes only. The installer is responsible for ensuring the installation complies with all relevant British Standards, local building regulations, codes of practice, and site-specific risk assessments. While every attempt has been made to verify the accuracy of the content in this guide upon its release, we cannot accept liability for any losses or damages resulting from inaccuracies. All tasks outlined must be carried out by certified professionals. Any deviation from these instructions nullifies any guaranteed entitlement or liability from the manufacturer.

Contact: For enquiries regarding the installation, operation or contents of the guide in relation to this product please direct your questions to : The Product and Drawing Office Manager, First Fence Ltd, Off Kiln Way, Swadlincote, South Derbyshire DE11 8EA. Or The Product and Drawing Office Manager sales@firstfence.co.uk +44 1283 380054.

Manufacturer and/or Reseller: First Fence Ltd, Off Kiln Way, Swadlincote, South Derbyshire DE11 8EA. www.firstfence.co.uk +44 1283 380054.

Competence: This product must be installed by a person of competence, defined as an individual who possesses the necessary knowledge, skill and experience in the installation of fences and gates.

Liability: This installation guide should be understood and followed before any installation activities commence. If any area of the installation is unclear, the installer must contact the manufacturer, outlined in 'Contact.' First Fence Ltd takes no responsibility for incorrectly installed systems, product, material or components.

1.0 Safety & Tools

Personal Protective Equipment (PPE)

The following minimum PPE is required for installation:

Hard Hat
Must be worn

Eye Protection
Must be worn

Safety Gloves
For all material handling

Foot Protection
Must be worn

Risk Assessment

Installers are responsible for completing a site-specific risk assessment and complying with all local risk assessments before starting work. This responsibility includes, but isn't limited to, the following:

Activity	Risk Assessment Requirements and Not Limited to
Breaking ground for post hole excavations	Noise Vibration Manual Handling
Post Installation	Hazardous Substances (COSHH) Manual Handling
Installation of Fixings	Noise Vibration Working at Height

Tools & Equipment

Safety Gloves
Required for all material handling, any COSHH tasks including Post Mix, and any installation tasks.

Drill/Buzz Gun
For fixings installation

Shovel/Excavation
Required for excavation of holes to suit post foundations

Spirit Level
For plumb (vertical) and level installation

Time
Required for Post Mix curing or patched fixing curing

Cable Avoidance Tool
To identify hidden services embedded in the wall

2.0 Pre-Installation

Underground Services

Before any drilling, establish and mark the locations of all services within the working area (e.g., electrical conduits, water pipes). Use a Cable Avoidance Tool (CAT) and refer to building plans where available to prevent damage to services.

Materials Check

Unpack the kit and verify all components are present and undamaged, checking against the Bill of Materials. Ensure all components are free from excessive corrosion or damage.

Notes:

All swing barrier kits will include the following catch post in corresponding colours to secure leaf in the open position:

1x SWI-CAT-0010 - CATCH KIT FOR HIGH LEVEL SWING ARM WITH NUDGE BAR ONLY

- For securing the upper swing barrier.

Illustration	Description	Product Code	Quantity
	2.2m HIGH SWING BARRIER DIG IN RECEIVER POST 100x100 BOX	SWI-REC-0010	1
	15MM PLASTIC RIBBED PLUG	UNI-SLIDE-5010	8
	100X100 BLACK RIBBED INSERTS	ACCS-RIB-0006	1

2x SWI-KIT-0310 - CATCH KIT FOR DOUBLE SWING GATES ONLY

- For securing the lower swing barriers.

Illustration	Description	Product Code	Quantity
	1.0m HIGH SWING BARRIER 80X80 DIG IN CATCH POST	SWI-CAT-2010	2
	SWING BARRIER CATCH POST - LATCH BOLT KIT	SWI-KIT-0010	2
	80X80 BLACK RIBBED INSERTS	ACCS-RIB-0005	2

Site Preparation For Car Park Swing Barrier

Note: Barriers should be installed so that, when opened, they do not obstruct traffic routes, pedestrian walkways, or designated access/egress points. The swing path must remain clear of kerbs, structures, and any other fixed obstacles to prevent damage or unsafe operation.

Note: Barrier Installation Clearing

1

Before beginning installation, coordinate with a site manager if needed. Ensure the ground is cleared and prepared for installation.

Note: Clearance Gap

2

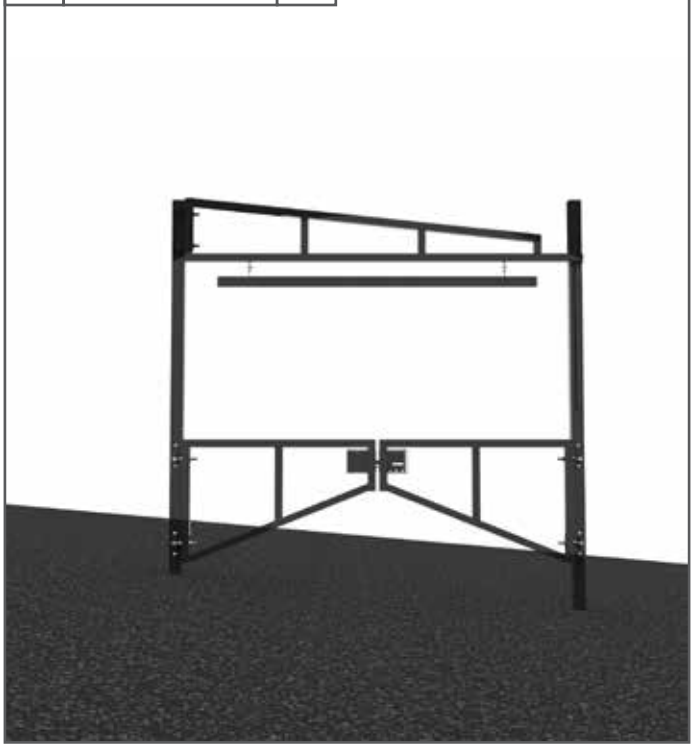
Standard outside-to-outside post widths vary depending on specific size bought, but always verify on-site. Accurate levelling is critical: you must maintain a strict 50mm ground clearance in order to ensure fully unobstructed movement of swing barrier.

Note: Not adhering to the level ground tolerance may result in your system not fitting correctly, or may result in misalignment!

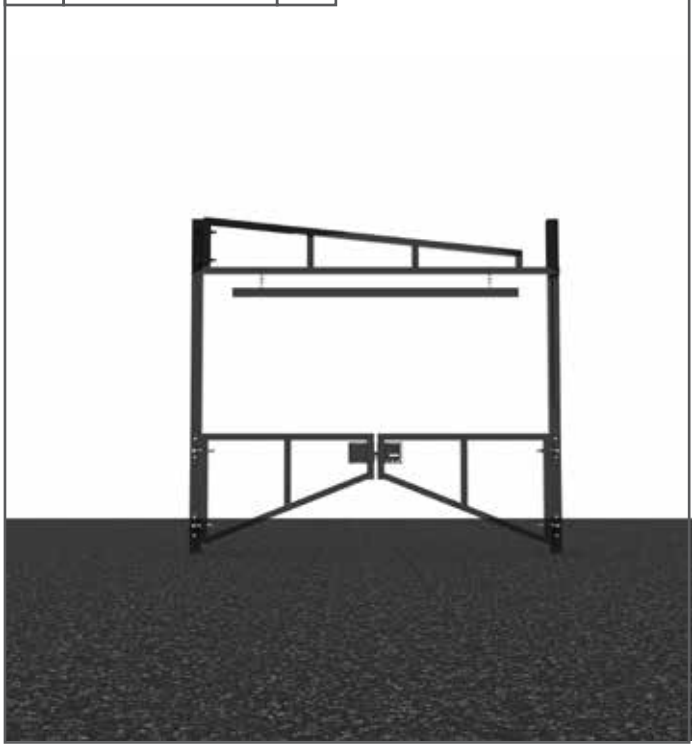
Note: Ground Level

Carpark swing barriers require level ground across their entire opening arc for safe and consistent operation. Installing on a slope or uneven surface causes fluctuating ground clearances beneath the barrier. This can cause the barrier to 'ground out' or scrape against the tarmac, creating physical resistance that prevents the mechanism from fully opening for vehicles or completely shutting to secure the carpark.

4a Bad Practice ✗



4b Good Practice ✓



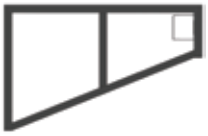
Car Park Swing Barrier

Built specifically for carpark security, this range of manual swing barriers offers standard 3m and 5m widths, alongside 4m and 6m wide versions equipped with telescopic arms to accommodate different site footprints. Every barrier is engineered for heavy-duty durability and features a locking bar used as a handle for effortless manual operation.

2.2m High x 3.0m Wide DOUBLE SWING BARRIER WITH HIGH-LEVEL SWING ARM KIT

Size: (H) 2200mm x (W) 3000mm

A robust and dependable access control solution designed for securing driveways, small car parks, and private site entrances. This 3m wide double-leaf kit provides a compact yet high-visibility deterrent, perfect for locations where space is at a premium but security is a priority.

Illustration	Description	Product Code	Quantity
	2.2m HIGH SWING BARRIER DIG IN HINGE POST 100x100 BOX	SWI-HIN-0010	1
	2.2m HIGH SWING BARRIER DIG IN RECEIVER POST 100x100 BOX	SWI-REC-0010	1
	1.0m HIGH X 1.5m WIDE SWING BARRIER LEAF	SWI-LEAF-2010	2
	0.5m HIGH X 3.0m WIDE HEIGHT BARRIER LEAF	SWI-LEAF-2100	1
	LOCK KIT FOR HEIGHT RESTRICTOR SWING BARRIER	SWI-LOCK-0010	1
	UNISLIDE DOUBLE SLIDER PADLOCKABLE GATE KIT	UNI-KIT-0500	1

	100X100 BLACK RIBBED INSERTS	ACCS-RIB-0006	2
	60X60 BLACK RIBBED INSERTS	ACCS-RIB-0003	2
	ADJUSTABLE GATE EYE 150mm cw 20mm	ACCS-GEN-0001	6
	HEIGHT RESTRICTOR NUDGE BAR FIXINGS KIT	NUDG-KIT-0100	1
	19MM BOLT-ON HINGE HOOK KIT FOR GATES	ACCS-GATE-6010	4
	NUDGE BAR 80x40mm x 2500mm WELDED LUGS	SWI-BAR-0350	1
	BLANK LOCKING PLATE KIT DOUBLE LEAF	SWI-ACC-0800	1

2.2M HIGH X 4.0M WIDE ADJUSTABLE DOUBLE SWING BARRIER WITH HIGH LEVEL SWING ARM KIT

Size: (H) 2200mm x (W) 4000mm

A robust and dependable access control solution designed for securing wider commercial driveways and medium-sized car parks. This 4m wide double-leaf kit provides a high-visibility deterrent, making it the ideal choice for sites that require a broader clearance for utility vehicles while maintaining a compact footprint.

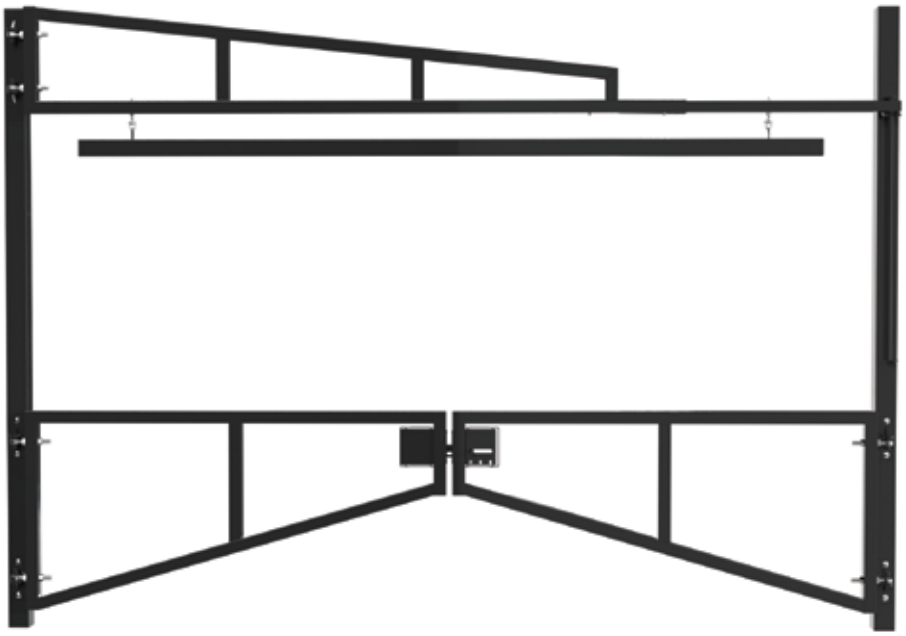


Illustration	Description	Product Code	Quantity
	2.2m HIGH SWING BARRIER DIG IN HINGE POST 100x100 BOX	SWI-HIN-0010	1
	2.2m HIGH SWING BARRIER DIG IN RECEIVER POST 100x100 BOX	SWI-REC-0010	1
	1.0m HIGH X 2.0m WIDE SWING BARRIER LEAF	SWI-LEAF-2020	2
	0.5m HIGH X 3.0m WIDE HEIGHT BARRIER LEAF	SWI-LEAF-2100	1
	LOCK KIT FOR HEIGHT RESTRICTOR SWING BARRIER	SWI-LOCK-0010	1
	UNISLIDE DOUBLE SLIDER PADLOCKABLE GATE KIT	UNI-KIT-0500	1
	STEEL HS 50x50x1.5mm x 1500 TELESCOPIC BEAM KIT	SWI-BAR-0400	1

	100X100 BLACK RIBBED INSERTS	ACCS-RIB-0006	2
	60X60 BLACK RIBBED INSERTS	ACCS-RIB-0003	1
	50X50 BLACK RIBBED INSERTS	ACCS-RIB-0010	1
	ADJUSTABLE GATE EYE 150mm cw 20mm	ACCS-GEN-0001	6
	HEIGHT RESTRICTOR NUDGE BAR FIXINGS KIT	NUDG-KIT-0100	1
	19MM BOLT-ON HINGE HOOK KIT FOR GATES	ACCS-GATE-6010	4
	NUDGE BAR 80x40mm x 3500mm WELDED LUGS	SWI-BAR-0360	1
	BLANK LOCKING PLATE KIT DOUBLE LEAF	SWI-ACC-0800	1

2.2M HIGH X 5.0M WIDE ADJUSTABLE DOUBLE SWING BARRIER WITH HIGH LEVEL SWING ARM KIT

Size: (H) 2200mm x (W) 5000mm

A robust and dependable access control solution designed for securing wider commercial driveways and medium-sized car parks. This 4m wide double-leaf kit provides a high-visibility deterrent, making it the ideal choice for sites that require a broader clearance for utility vehicles while maintaining a compact footprint.

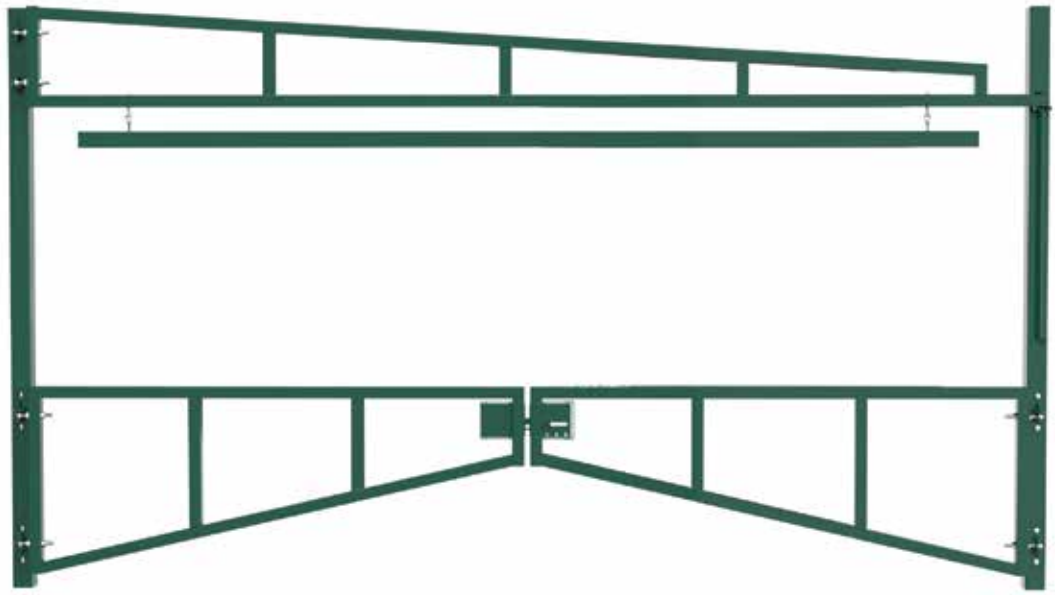
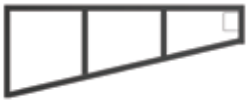


Illustration	Description	Product Code	Quantity
	2.2m HIGH SWING BARRIER DIG IN HINGE POST 100x100 BOX	SWI-HIN-0010	1
	2.2m HIGH SWING BARRIER DIG IN RECEIVER POST 100x100 BOX	SWI-REC-0010	1
	1.0m HIGH X 2.5m WIDE SWING BARRIER LEAF	SWI-LEAF-2030	2
	0.5m HIGH X 5.0m WIDE HEIGHT BARRIER LEAF	SWI-LEAF-2110	1
	LOCK KIT FOR HEIGHT RESTRICTOR SWING BARRIER	SWI-LOCK-0010	1
	UNISLIDE DOUBLE SLIDER PADLOCKABLE GATE KIT	UNI-KIT-0500	1
	100X100 BLACK RIBBED INSERTS	ACCS-RIB-0006	2

	60X60 BLACK RIBBED INSERTS	ACCS-RIB-0003	2
	ADJUSTABLE GATE EYE 150mm cw 20mm	ACCS-GEN-0001	6
	HEIGHT RESTRICTOR NUDGE BAR FIXINGS KIT	NUDG-KIT-0100	1
	19MM BOLT-ON HINGE HOOK KIT FOR GATES	ACCS-GATE-6010	4
	NUDGE BAR 80x40mm x 4500mm WELDED LUGS	SWI-BAR-0370	1
	BLANK LOCKING PLATE KIT DOUBLE LEAF	SWI-ACC-0800	1

2.2M HIGH X 6.0M WIDE ADJUSTABLE DOUBLE SWING BARRIER WITH HIGH LEVEL SWING ARM KIT

Size: (H) 2200mm x (W) 6000mm

A robust and dependable access control solution designed for securing wider commercial driveways and medium-sized car parks. This 4m wide double-leaf kit provides a high-visibility deterrent, making it the ideal choice for sites that require a broader clearance for utility vehicles while maintaining a compact footprint.

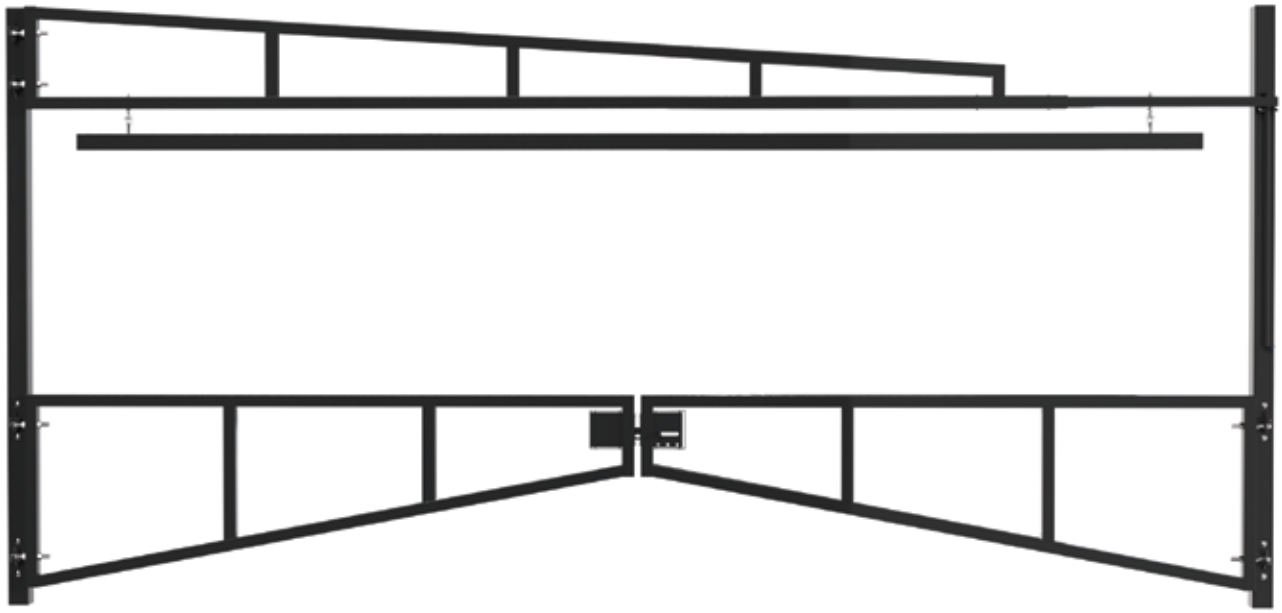
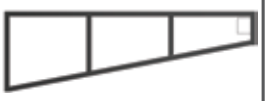
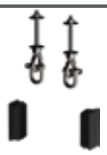


Illustration	Description	Product Code	Quantity
	2.2m HIGH SWING BARRIER DIG IN HINGE POST 100x100 BOX	SWI-HIN-0010	1
	2.2m HIGH SWING BARRIER DIG IN RECEIVER POST 100x100 BOX	SWI-REC-0010	1
	1.0m HIGH X 3.0m WIDE SWING BARRIER LEAF	SWI-LEAF-2040	2
	0.5m HIGH X 5.0m WIDE HEIGHT BARRIER LEAF	SWI-LEAF-2110	1
	LOCK KIT FOR HEIGHT RESTRICTOR SWING BARRIER	SWI-LOCK-0010	1
	UNISLIDE DOUBLE SLIDER PADLOCKABLE GATE KIT	UNI-KIT-0500	1
	STEEL HS 50x50x1.5mm x 1500 TELESCOPIC BEAM KIT	SWI-BAR-0400	1

	100X100 BLACK RIBBED INSERTS	ACCS-RIB-0006	2
	60X60 BLACK RIBBED INSERTS	ACCS-RIB-0003	1
	50X50 BLACK RIBBED INSERTS	ACCS-RIB-0010	1
	ADJUSTABLE GATE EYE 150mm cw 20mm	ACCS-GEN-0001	6
	HEIGHT RESTRICTOR NUDGE BAR FIXINGS KIT	NUDG-KIT-0100	1
	19MM BOLT-ON HINGE HOOK KIT FOR GATES	ACCS-GATE-6010	4
	NUDGE BAR 80x40mm x 5500mm WELDED LUGS	SWI-BAR-0380	1
	BLANK LOCKING PLATE KIT DOUBLE LEAF	SWI-ACC-0800	1

The Car Park Swing Barrier Range

The Car Park Swing Barrier range is designed to provide high-level vehicle access control for private car parks, public car parks, and community areas. This versatile range combines a robust physical gate with an integrated height restrictor to manage both the size and flow of traffic effectively.

Whether you need a compact 3m span or a wide 6m entrance, each kit is engineered for safety, longevity, and professional presentation.

Key Features

- Standardised Ultra-Robust Support: To ensure maximum structural integrity across the entire range, every kit - from 3m to 6m - features heavy-duty 100mm x 100mm steel support posts.
- Dual-Action Perimeter Control: Provides a total physical blockade for vehicles when closed, while the integrated suspended height-limiting nudge bar deters over-height vehicles even when the gate leaves are open.
- Industrial-Grade Construction: Built from high-tensile square hollow section (SHS) steel, engineered to withstand the rigors of high-traffic environments like schools, industrial estates, and retail parks.
- Flexible Locking System: Each kit is supplied with heavy-duty lockable hardware to secure the barrier in the closed position.
- Enhanced Safety: Designed for use with optional secondary catch posts (available separately), allowing the leaves to be safely locked in the open position to prevent accidental swinging or unauthorized closure.

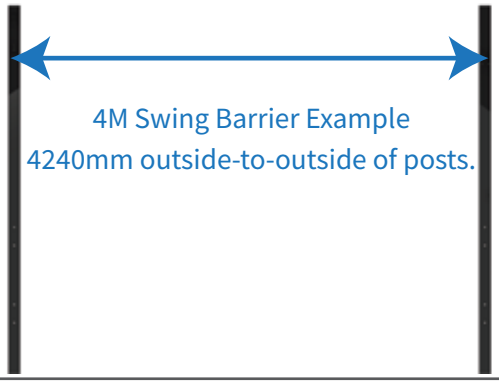
Weather-Proof Finishes:

Galvanized Protection: All components are hot-dip galvanized as standard for long-term rust prevention.

Optional Powder Coating: Available in our standard RAL colours for a professional, durable finish that matches your site's aesthetic.

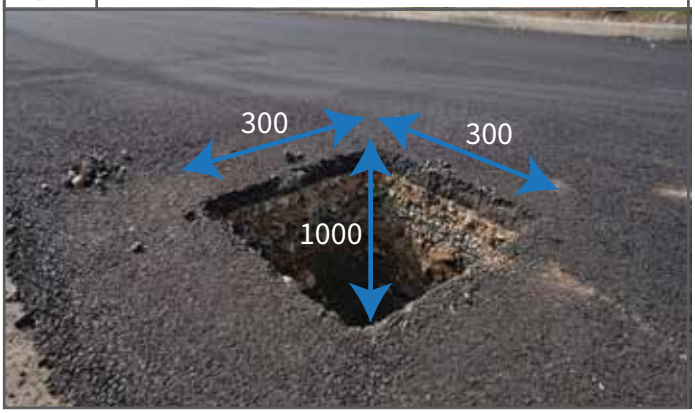
1

Measure and mark the exact post positions on the ground. For this style, you must achieve the correct corresponding measurement outside-to-outside post width to ensure the gate and hinges fit correctly.



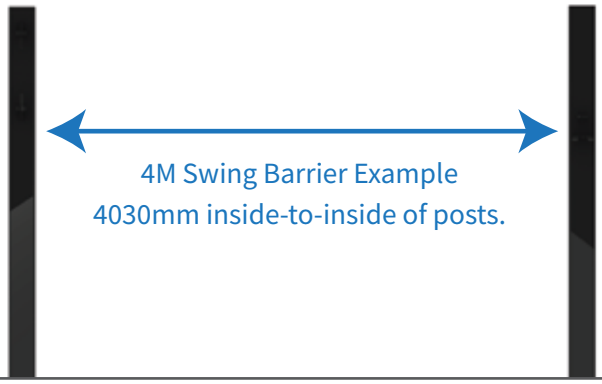
2

Dig two holes for your gate posts. According to the technical drawing, the foundation depth must be 1000mm to properly secure the 3900mm total length posts.



3

Place the 100x100mm hinge and catch posts into their respective holes. Ensure both posts are perfectly vertical (plumb) and aligned with each other.



4

Secure the posts using concrete or post mix. Double-check that both posts remain perfectly plumb and aligned before the concrete fully cures.

5

Before hanging the leaf, verify your hinge placement will allow for a mandatory 50mm ground clearance beneath the gate across its entire opening arc. Attach the 4x 19mm bolt-on hinge hook kits.

6

Carefully lift the gate leafs into position. Secure with the provided eye bolts and nuts. Ensure they both sit level and flush, there should be a 30mm gap in between the leafs.

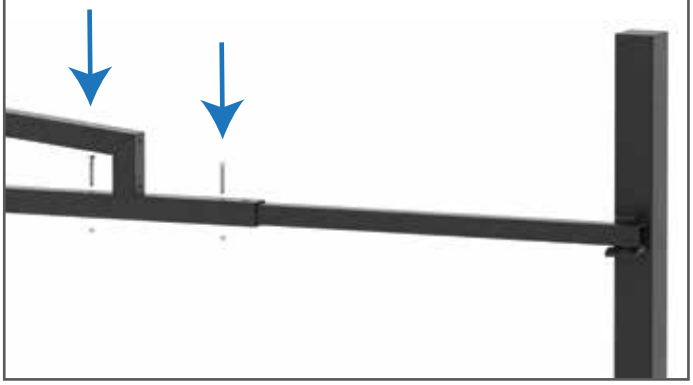
Note: Ensure all M12 snap-off security nuts on the back of the bolt on hook kit assemblies are fully tightened and sheared off to prevent tampering!

7 Attach the blank locking plate kit for double leaf along with the Unislide Double Slider Padlockable Gate kit. Secure all with provided shear nuts. Attach slider and handle. (Image shown from behind.)

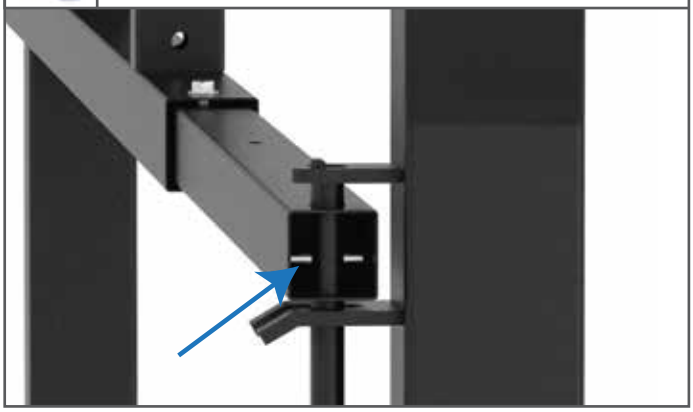
8 Move on to the upper swing barrier leaf. Carefully lift into position and secure with eye bolts and nuts. Take care when lifting at height.

2+ PEOPLE REQUIRED

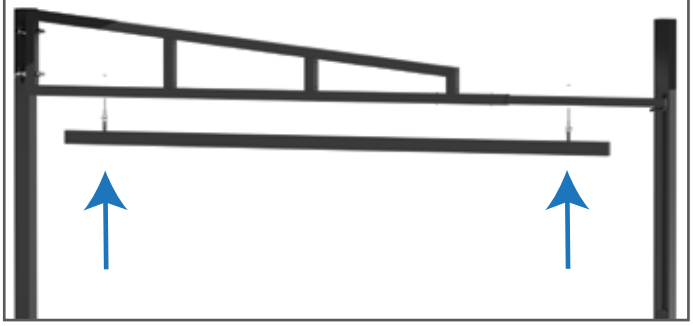
9 If using a 4M or 6M Kit, now is the time to install the telescopic bar to achieve full length. Secure with provided nuts and bolts. Do not attach ribbed inserts till after step 10.



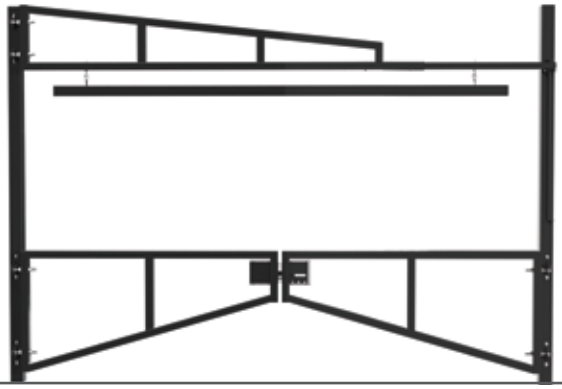
10 Ensure the swing barrier moves freely, and aligns with the catch post. Attach the swing barrier locking kit as shown below. Attach bolt pin from locking kit to stop bar from sliding out.



11 Attach the nudge bar using the provided fixing kit. Adjust fixings until nudge bar sits level. Attach all ribbed inserts.



12 Ensure all leafs move freely across full opening arc. Tighten all security nuts and make sure they are sheared off to prevent tampering.



Note: Ensure all M12 snap-off security nuts on the back of the bolt on hook kit assemblies are fully tightened and sheared off to prevent tampering!

3.0 Installation Sign-Off Checklist

Action	Description	Consequence	Pass or Fail?	Remedial Action	Initial	Date
Ground Clearance Check	Ensure a strict 50mm ground clearance is maintained beneath the gate leafs across its entire opening arc.	Non-compliant gaps increase the risk of grounding. If this is not correct, the gates may fail to open and close properly.		Re-level the ground across the gate's opening arc to achieve a uniform 50mm clearance.		
Manual Operation & Locking Check	Test the barrier to ensure it swings smoothly on its hinges without excessive force. Verify that sliders, padlocks, and catch posts align perfectly in both the open and closed positions.	A stiff barrier poses a manual handling risk. Failure to lock whilst closed compromises car park / site security.		Adjust leaf alignment to ensure locking mechanisms engage smoothly without needing to be forced.		
Hardware & Security Checks	Inspect eye bolts, padlock shrouds, and drop bolts. Firmly push the main hinge post and catch posts to check for any wobble, movement, or degradation in the concrete foundations at ground level.	Ground subsidence or failing concrete can cause the barrier to lean, sag, drag on the ground, or eventually fail entirely. Loose hinges compromise security and operation.		If posts move, the concrete foundation has failed and must be broken out and re-poured. Replace damaged components. Ensure any exposed security nuts are sheared off to prevent tampering.		
Site Clean Up & Snagging	Conduct a final walk-through. Ensure all construction debris, leftover concrete, packaging, and tools are thoroughly removed from the car park and surrounding walkways.	Leftover debris presents puncture risks for vehicle tires and trip hazards for pedestrians. Overlooked defects lead to a substandard finish.		Sweep the area thoroughly, remove all waste, touch up any paint chips on the barrier, document any snags, and resolve them before final handover.		

Sign Off Declaration:

I hereby confirm that this product has been assembled and installed in accordance with the above requirements and any remedial works have been carried out before the final sign off:

Site Supervisor _____

Sign Off Date _____

Relationship to the Client _____

Signature

_____

Note: This is an advisory best practice installation checklist to ensure your PlaySecure® hydraulic gates remain operational, effective, and safe.

4.0 Maintenance Schedule

Check Area	Result	Action
Ensure all steel components are periodically cleaned of bird matter, debris and dirt	This will minimise the harbouring of corrosive matter, which could affect paint and galvanising long term	Pressure wash gently to ensure clear of debris
Ensure gates maintain a strict 50mm ground clearance across the entire opening arc	Non-compliant gaps increase the risk of grounding. If this is not correct, the gates may fail to open and close properly.	Adjust leafs to restore the 50mm clearance or re-level the ground beneath the gate's swing path.
Ensure minimal wobble in the main pivot and catch posts to verify concrete foundation integrity. Check that locking mechanisms are secure.	Wobble indicates failing concrete foundations, which causes misalignment and sagging. Stiff or insecure locking mechanisms make the barrier hard to secure and vulnerable to tampering.	If posts move, the concrete foundation has failed and must be broken out and re-poured.

Take the hassle out of your maintenance schedule

First Fence Limited offers an annual inspection programme for your Swing Barrier System.

Contact our team today to include this quote onto your sales order.

highsecuritymaintenance@firstfence.co.uk

Operational Notes

1.0 These swing barriers and posts are designed specifically for secure vehicle access control in car parks. Additional loads such as people climbing/sitting on the barrier arm, attaching heavy equipment, or mounting oversized signage may cause deformation or damage to the hinge system and foundations.

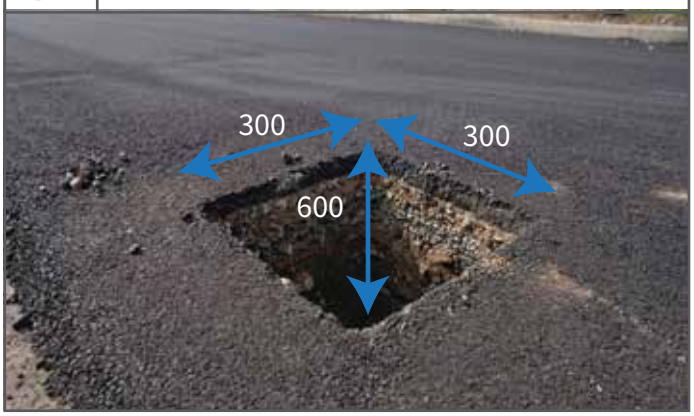
2.0 All moving components must be inspected regularly for wear, damage, or misalignment. Replace or repair components as necessary to maintain safe, smooth manual operation and prevent manual handling strain.

3.0 The barriers should always be securely padlocked when in the fully closed position to the main catch post. This ensures secure access control and prevents the barrier arm from swinging freely into the path of moving vehicles or pedestrians.

4.0 All fixings should be tightly secured and free from excessively sharp or protruding edges to prevent minor injuries or clothing snags for the personnel operating the barrier and pedestrians walking nearby.

13 Mark out placement for the lower swing barrier catch posts. They can be placed anywhere along the leaf as long as it doesn't collide with the surround.

14 Dig out the two marked holes for your lower barrier catch posts. These catch posts should sit 600mm into the ground.



15 Secure the posts using concrete or post mix. Double-check that both posts remain perfectly plumb and aligned before the concrete fully cures.

16 Mark out placement for the upper swing barrier catch post. It should be the same distance as the other recieve post.

17 Dig out the marked hole for your upper swing barrier catch posts. This catch posts should sit 1000mm into the ground.

18 Secure the post using concrete or post mix. Double-check that post remain perfectly plumb and aligned before the concrete fully cures.

Note: Ensure all M12 snap-off security nuts on the back of the bolt on hook kit assemblies are fully tightened and sheared off to prevent tampering!