



FlexiRail® Railing Gates

Ball Top, Bow Top, Flat Top and Vertical Bar

Single Leaf Gates 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m High
1.0m, 1.2m, 1.5m and 2.0m Wide

Double Leaf Gates 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m High
2.0m, 3.0m and 4.0m Wide

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 FlexiRail® railing gate product line.

These gates are specifically designed to work with the First Fence railings of the same style to provide a safe and secure access point that is both functional and visually appealing.

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.

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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



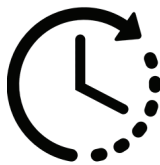
Spirit Level

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, fibre optic cables). 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.



3.0 FlexiRail® Single Leaf Installation



Bolt Down Installation



1	Measure the post position on the ground and mark out bolt locations.
	
	

2	Drill 4 x 18mm holes to suit M16 anchor bolts.
	
	

3	Place the gate post and install the anchor bolts. Tighten the bolts down in a cross pattern to reduce chance of thread trapping.
	
	


4	Repeat steps 2 and 3 for the catch post at the appropriate location.
	
	

5	Attach the two lower eye bolts onto the pivot pins of the hinge post. The third will need to be held in place while installing the leaf. All eye bolts need the inner nut to be pre-installed.
	
	


6	Slide on the leaf to the eyebolts. With the gate leaf positioned on the eyebolts, thread on the outer nuts. Adjust both the inner and outer nuts to set the correct hinge gap, ensuring the gate remains perfectly level, then fully tighten.
	
	

FlexiRail® Single Leaf Installation Continued


Bolt Down Installation

7	Install the Unislide locking system. Guides available online in the Help & Advice section www.firstfence.co.uk and on provided installation instructions.
	



8	Install the locking drop bolt. Guides available online and on provided installation instructions.
	







9	If there are clearance issues, change the distance on the eyebolts to either draw the leaf closer or further away to the catch post. Pitch the leaf up or down to ensure slider interfaces into catch post effectively.
	


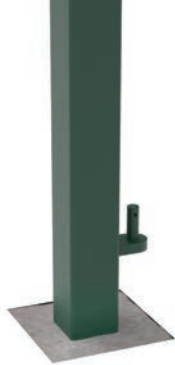




FlexiRail® Single Leaf Installation



Dig In Installation



1	Measure the post position on the ground and mark out dig locations.
	
	

2	Dig a 250mm-by-250mm hole. Depths are suggested as follows:
	
0.9m System = 800mm 1.8m System = 600mm 1.0m System = 700mm 2.0m System = 1100mm 1.2m System = 500mm 2.1m System = 1000mm 1.5m System = 500mm 2.4m System = 700mm	
	

3	Insert the gate post into the hole. Back fill the space with Post Crete/Mix, ensuring that the post remains perfectly plumb and aligned before the concrete fully cures.
	
	


4	Repeat steps 2 and 3 for the catch post at the appropriate location.
	
	



5	Attach the two lower eye bolts onto the pivot pins of the hinge post. The third will need to be held in place while installing the leaf. All eye bolts need the inner nut to be pre-installed.
	
	



6	Slide on the leaf to the eye bolts. With the gate leaf positioned on the eye bolts, thread on the outer nuts. Adjust both the inner and outer nuts to set the correct hinge gap, ensuring the gate remains perfectly level, then fully tighten.
	
	

FlexiRail® Single Leaf Installation Continued

Dig In Installation



7	Install the Unislide locking system. Guides available online and on provided installation instructions.
	
	



8	Install the locking drop bolt. Guides available online and on provided installation instructions.
	
	


9	If there are clearance issues, change the distance on the eyebolts to either draw the leaf closer or further away to the catch post. Pitch the leaf up or down to ensure slider interfaces into catch post effectively.
	
	



FlexiRail® Double Leaf Installation



Bolt Down Installation



1	Measure the post position on the ground and mark out bolt locations.
	
	

2	Drill 4 x 18mm holes to suit M16 anchor bolts.
	
	

3	Place the gate post and install the anchor bolts. Tighten the bolts down in a cross pattern to reduce chance of thread trapping.
	
	



4	Repeat steps 2 and 3 for the catch post at the appropriate location.
	
	



5	Attach the two lower eye bolts onto the pivot pins of the hinge post. The third will need to be held in place while installing the leaf. All eyebolts need the inner nut to be pre-installed.
	
	



6	Slide on the leaf to the eyebolts. With the gate leaf positioned on the eyebolts, thread on the outer nuts. Adjust both the inner and outer nuts to set the correct hinge gap, ensuring the gate remains perfectly level, then fully tighten.
	
	



FlexiRail® Double Leaf Installation Continued



Bolt Down Installation


7	Install the Unislide locking system. Guide available online and on provided installation instructions.
	
	

8	Install the locking drop bolt. Guide available on line and on the provided installation instructions.
	
	

9	Mark holes to be made for the drop bolt to engage with the floor. Only the secondary leaf is required to be locked while closed.
	
	



10	Create the hole based on the drop bolt fixing specification. Guide available online and on provided installation instructions.
	
	



11	Lock the secondary leaf while closed. The primary drop bolt is only used to hold the gate open if required.
	
	


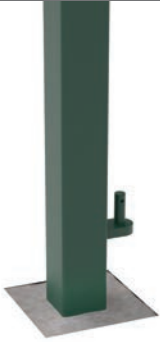
12	If there are clearance issues, change the distance on the eye bolts to either draw the leaf closer or further away to the catch post. Pitch the leaf up or down to ensure slider interfaces into catch post effectively.
	
	

FlexiRail® Double Leaf Installation



Dig In Installation



1	Measure the post position on the ground and mark out dig locations.
	
	

2	Dig a 250mm-by-250mm hole. Depths are suggested as follows:
	0.9m System = 800mm 1.8m System = 600mm 1.0m System = 700mm 2.0m System = 1100mm 1.2m System = 500mm 2.1m System = 1000mm 1.5m System = 500mm 2.4m System = 700mm
	

3	Insert the gate post into the hole. Back fill the space with Post Crete/Mix, ensuring that the post remains perfectly plumb and aligned before the concrete fully cures.
	
	



4	Repeat steps 2 and 3 for the catch post at the appropriate location.
	
	



5	Attach the two lower eye bolts onto the pivot pins of the hinge post. The third will need to be held in place while installing the leaf. All eyebolts need the inner nut to be pre-installed.
	
	



6	Slide on the leaf to the eyebolts. With the gate leaf positioned on the eyebolts, thread on the outer nuts. Adjust both the inner and outer nuts to set the correct hinge gap, ensuring the gate remains perfectly level, then fully tighten.
	
	

FlexiRail® Double Leaf Installation Continued



Dig In Installation


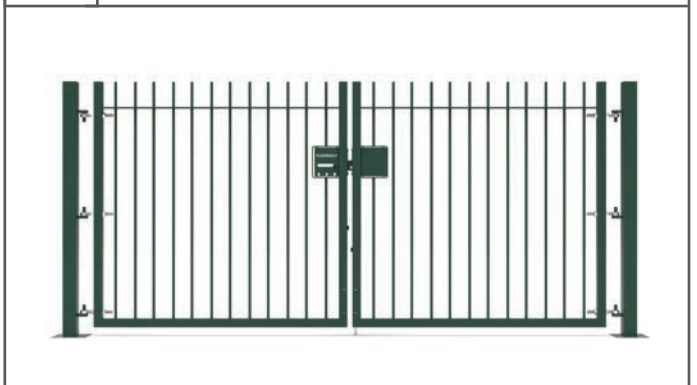
7 	Install the Uniside locking system. Guides available online and on provided installation instructions.
	

8 	Install the locking drop bolt. Guides available online and on provided installation instructions.
	

9 	Mark holes to be made for the drop bolt to engage with the floor. Only the secondary leaf is required to be locked while closed.
	

10 	Create the hole based on the drop bolt fixing specification. Guides available online and on the provided installation instructions.
	

11 	Lock the secondary leaf while closed. The primary drop bolt is only used to hold the gate open if required.
	

12 	If there are clearance issues, change the distance on the eye bolts to either draw the leaf closer or further away to the catch post. Pitch the leaf up or down to ensure slider interfaces into catch post effectively.
	

4.0 Bill of Materials - Single Leaf Gates

FlexiRail® VERTICAL BAR SINGLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 1.0m, 1.2m, 1.5m and 2.0m



Description	Quantity
Gate Leaf	1
Adjustable Gate Eyes	3
Catch Gate Post	1
Hinge Gate Post	1
FlexiRail® Slide Bolt Locking Plate	1
Unislide Single Slider Padlockable Gate Kit	1
Locking Drop Bolt	1

FlexiRail® BOW TOP SINGLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 1.0m, 1.2m, 1.5m and 2.0m

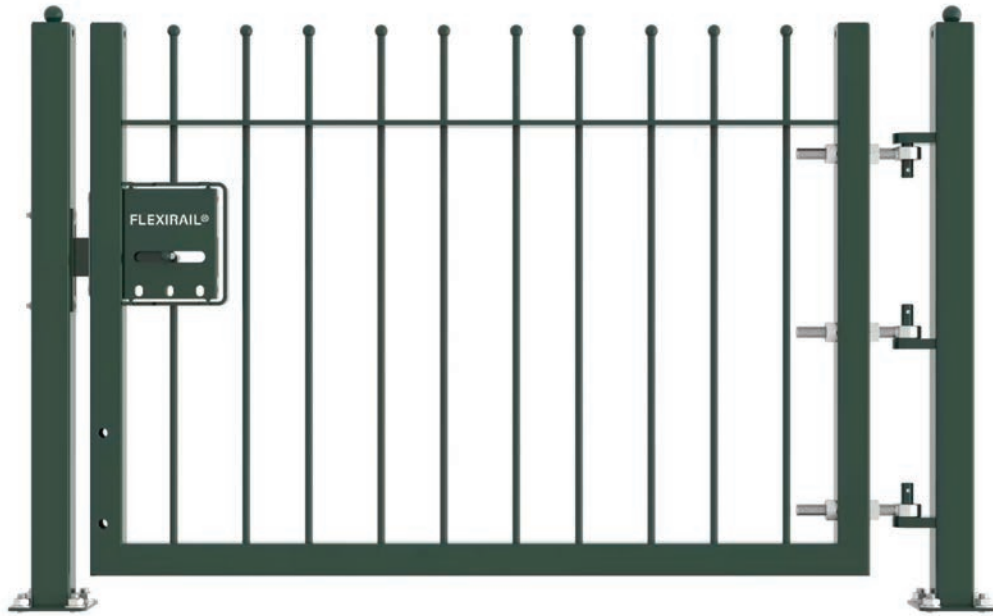


Description	Quantity
Gate Leaf	1
Adjustable Gate Eyes	3
Catch Gate Post	1
Hinge Gate Post	1
FlexiRail® Slide Bolt Locking Plate	1
Unislide Single Slider Padlockable Gate Kit	1
Locking Drop Bolt	1

FlexiRail® BALL TOP SINGLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 1.0m, 1.2m, 1.5m and 2.0m



Description	Quantity
Gate Leaf	1
Adjustable Gate Eyes	3
Catch Gate Post	1
Hinge Gate Post	1
FlexiRail® Slide Bolt Locking Plate	1
Unislide Single Slider Padlockable Gate Kit	1
Locking Drop Bolt	1

FlexiRail® FLAT TOP SINGLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 1.0m, 1.2m, 1.5m and 2.0m



Description	Quantity
Gate Leaf	1
Adjustable Gate Eyes	3
Catch Gate Post	1
Hinge Gate Post	1
FlexiRail® Slide Bolt Locking Plate	1
Unislide Single Slider Padlockable Gate Kit	1
Locking Drop Bolt	1

Bill of Materials - Double Leaf Gates

FlexiRail® VERTICAL BAR DOUBLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 2.0m, 3.0m and 4.0m



Description	Quantity
Gate Leaf	2
Adjustable Gate Eyes	6
Hinge Gate Post	2
FlexiRail® Slide Bolt Locking Plate Double Leaf Kit	1
Unislide Double Slider Padlockable Gate Kit	1
Locking Drop Bolt	2

FlexiRail® BOW TOP DOUBLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 2.0m, 3.0m and 4.0m



Description	Quantity
Gate Leaf	2
Adjustable Gate Eyes	6
Hinge Gate Post	2
FlexiRail® Slide Bolt Locking Plate Double Leaf Kit	1
Unislide Double Slider Padlockable Gate Kit	1
Locking Drop Bolt	2

FlexiRail® BALL TOP DOUBLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 2.0m, 3.0m and 4.0m



Description	Quantity
Gate Leaf	2
Adjustable Gate Eyes	6
Hinge Gate Post	2
FlexiRail® Slide Bolt Locking Plate Double Leaf Kit	1
Unislide Double Slider Padlockable Gate Kit	1
Locking Drop Bolt	2

FlexiRail® FLAT TOP DOUBLE LEAF GATE KIT

Height: 0.9m, 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.1m and 2.4m

Width: 2.0m, 3.0m and 4.0m



Description	Quantity
Gate Leaf	2
Adjustable Gate Eyes	6
Hinge Gate Post	2
FlexiRail® Slide Bolt Locking Plate Double Leaf Kit	1
Unislide Double Slider Padlockable Gate Kit	1
Locking Drop Bolt	2

5.0 Installation Sign-Off Checklist

Action	Description	Pass/Fail
Post Foundations	Visually inspect concrete foundations for proper size and stability. Ensure they are free from cracks.	
Post Alignment	Check that hinge and catch posts are plumb (upright) and securely anchored in a straight line.	
Ground Clearance	Measure and confirm there is a minimum of 50mm ground clearance.	
Gate Operation	Test the gate leaf to ensure it swings or slides smoothly without any obstructions.	
Slider and Locking Mechanism	Verify that the Unislide kit is installed and fully functional.	
Drop Bolt	Verify that the drop bolt slides smoothly without catching.	

Sign Off Declaration:

I hereby confirm the 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 gates remain operational, effective, and safe.



6.0 Maintenance Schedule

Regular inspection and maintenance are critical to ensure the system remains safe and effective. The person responsible for site safety should ensure these checks are carried out.

Check Area	Recommended Action	Frequency	Reference
Gate & Post Integrity/ Foundation Check	Visually inspect the entire gate system for signs of rust, damage, post movement, or ground erosion near foundations. Ensure the gate and posts remain plumb and aligned.	Annually	BS 1722
Structural Condition/Visual Rust Check	Check all steel components for bending, displacement, or damage. Inspect for significant corrosion or damage to the galvanised or powder-coated finish.	6-12 months	BS EN ISO 1461
Fittings & Fixings	Physically check a sample of all bolts and fixings on each visit to ensure they remain tight. Visually inspect all accessible fittings for signs of loosening or tampering.	6 months	Manufacturer's Spec
Locking Mechanism	Inspect the slider bar and locking mechanism for smooth operation. Check for any damage, wear, or signs of tampering.	6 months	Manufacturer's Spec
Lubrication	Grease hinges/latches	6 months	BS EN 12604

Take the hassle out of your maintenance schedule

First Fence Limited offers an annual inspection programme for your system. Contact our sales team today to include this quote onto your sales order.
highsecuritymaintenance@firstfence.co.uk