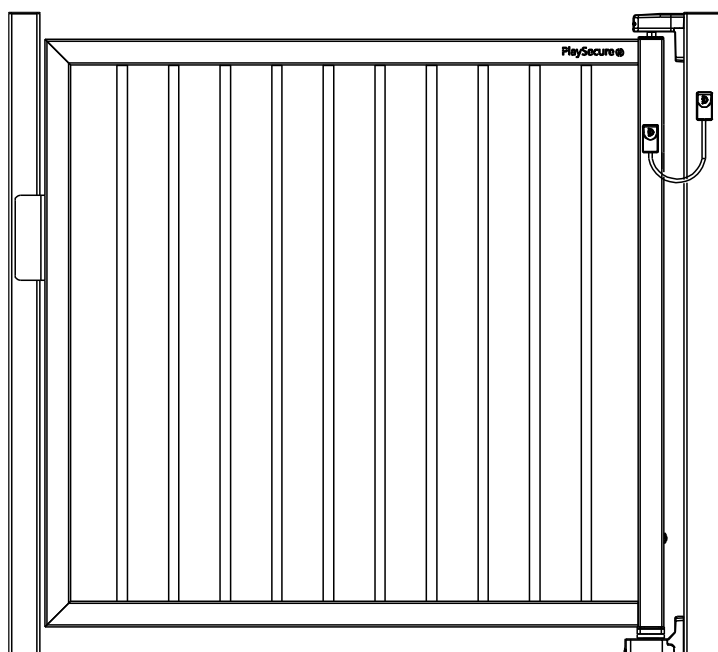


PlaySecure[®] Gates

Operations, Maintenance & Installation Manual

Single and Double PlaySecure[®] Gates; 1.0m
& 1.2m Height and 1.2m to 2.9m Wide



Contents

1.0 Introduction	3
Disclaimer	3
Copyright	3
Contact	3
Manufacturer	3
2.0 Preface	4
O&M Guide	4
RoSPA Outline	4
Component and Material Registers	4
3.0 Safety	5
Competence	5
Liability	5
Personal Protective Equipment	5
Risk Assessment	5
4.0 Installation	6
Tools Legend	6
RoSPA Best Practise	
Other Standards and Recommendations	
Site Preparation	7
5.0 Post Installation	8
6.0 Locinox Interio Closer Installation	
7.0 Hanging Installation	9
8.0 Hardware Kit Installation	
9.0 Installation Sign Off Checklist	12
10.0 Maintenance Schedule	
11.0 Bill of Materials	15

1.0 Copyright and Disclaimer

Disclaimer

While every attempt has been made to verify the accuracy of the content in this manual upon its release, we cannot accept liability for any losses or damages resulting from inaccuracies. All tasks outlined must be carried out by professionals or a person of competence. Any deviation from these instructions nullifies any guaranteed entitlement or liability from the manufacturer.

Copyright

The copyright of this manual is owned by First Fence Ltd and is protected at all times. Reproduction of this manual by any means is strictly prohibited without prior written consent from First Fence Ltd.

Contact

For inquiries regarding PlaySecure® Gates, RoSPA, the contents of the manuals, or technical specifications, please direct your questions to:

The Product and Drawing Office Manager
First Fence Ltd
Off Kiln Way
Swadlincote
Derbyshire
DE11 8EA

Or

The Product and Drawing Office Manager
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2.0 Preface

O&M Guide

The PlaySecure® Gates O&M manual will detail the RoSPA gate safety guidelines, site assessment, installation, adjustments, maintenance and bill of materials associated with the range.

RoSPA Outlined

The Royal Society for the Prevention of Accidents (RoSPA) is a UK charity designed to prevent life changing injuries and death through a series of recommendations on product design when it comes to public access and open areas.

First Fence Ltd have no affiliation with RoSPA and have designed the PlaySecure® range in accordance with the requirements set out in RoSPA's Code of Conduct titled 'Gates and access to play and wheeled sports areas'. Most points have been followed in the design stage and may differ when it comes to on-site installation.

A full list of recommendations by RoSPA can be obtained on <https://www.rospace.com/policy/play-safety/advice/gates>

Component and Material Registers

All materials and components utilised in the production, storage, and distribution of PlaySecure® are saved on the First Fence Ltd Drawing and Material Register. Any specific drawings can be request at any time through the contacts listed on page 3.

First Fence Ltd has a strict policy and process in gate design, in which all aspects of the business are accredited to the following:

- ISO 9001 – Quality Management
- ISO 14001 – Environmental
- ISO 22301 – Business Continuity
- ISO 27001 – Information Security
- ISO 45001 – Health & Safety

3.0 Safety

Competence

The PlaySecure® gate range 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

The installation guide should be understood and followed in section 5.0, 6.0 and 7.0 before any installation activities commence. If any area of the installation is unclear, the installer must contact the manufacturer, outlined in section 1.0 'Contact'. First Fence Limited take no responsibility for incorrectly installed systems, product, material or components.

Personal Protective Equipment

Site specific installation methods should always be followed, in addition to using the following PPE equipment:



Risk Assessment

It is the responsibility of the installer to adhere to local risk assessments before installation, including and not limited to the following examples:

Activity	Risk Assessment Requirements and Not Limited to:
Breaking ground for post hole excavations	Noise Vibration Manual Handling Potential Stone and Dust Debris
Post installation	Hazardous Substances (COSHH) Manual Handling
Installation and Hanging of Gate(s)	Manual Handling
Installation of fixing kit and Locinox Interio self closer	Manual Handling Power Tool Operation

4.0 Installation

Tools Legend

Safety Gloves

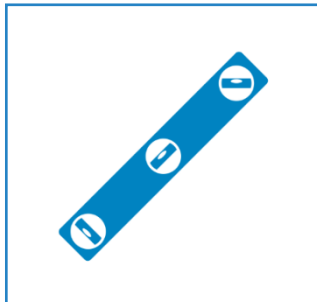


Required for all material handling

Required for any COSHH tasks including post mix

Required for any installation tasks

Spirit Level



Required for plumb installation of posts and hanging of gates

Shovel / Excavation



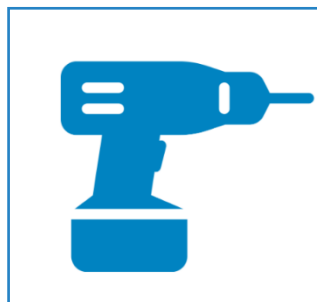
Required for excavation of holes to suit post foundations

Time



Required for post mix curing time

Drill / Buzz Gun



Required for potential installation of any mechanically fixed components such as fixing kits and self closers

Attack Face



Defines the outside / face of the PlaySecure® system

Site Preparation

Key RoSPA Site Design Considerations

FFL Key Reference	Point	RoSPA Recommendation	Design Consideration
1A	Emergency Service Access	Access of 2.15m is essential for the access of ambulance trolley beds.	The PlaySecure® Machinery Access Gates have a clear opening of 2910mm for this eventuality.
1B	Locking	If access gates are locked, consult emergency services on the best arrangement.	Have an emergency service access plan.
1C	Footpath Requirements	A hard standing footpath of at least 1m wide is required for trolley bed access.	A soft ground will result in delay as greater man power required for trolley lifting. Ensure sufficient width path is available through the gate.
1D	Disability Access	Whilst observing point 1A (below), reasonable provision should be made for disability access.	Hard ground to the park along with a clear opening width of 1.1m.
1E	Gate Location	Gates should be positioned away from roads and car parks.	Ensure gates are located on flat ground, along the most walked route and ideally away from traffic, roads and cars.

Other Key Site Design Considerations

Key Reference	Point	Standard / Recommendation	Design Consideration
2A	Disability Wheel Chair Access	BS5709:2018 'Gaps, gates and stiles. Specification', the minimum clear width should be at least 1.1m.	The PlaySecure® single leaf gate has a clear opening of 1150mm.
2B	Gate hinge safety	BS 12604 recommendation 'Industrial, Commercial and garage doors and gates'	Gates should be equipped with a safety tether or device preventing a gate fall of more than 300mm should the top hinge fail.

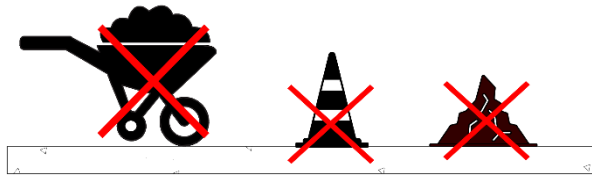
Gate Design Scope in Accordance with RoSPA recommendations

Key Reference	Point	Standard / Recommendation	Design Consideration
3A	Finger entrapment	RoSPA 12mm finger entrapment	Gates, hinges and slam plates will not create a gap less than 12mm if installed correctly.
3B	Gate Protrusions	Hardware shall not protrude more than 25mm	Drop bolt handle flush fitted.
3C	Gate Closers	Self Closers must not close quicker than 5 seconds	PlaySecure® uses the Locinox Interio closer, which can be speed adjusted.
3D	Ground Clearance	Ground clearance to be a minimum of 60mm	Designed to maintain a 60mm gap between ground and gate.
3E	Swing Direction	Gates should ideally swing inward	Reversible slam plate and self-closer allows for both swing directions to suit site restrictions.

Site Preparation

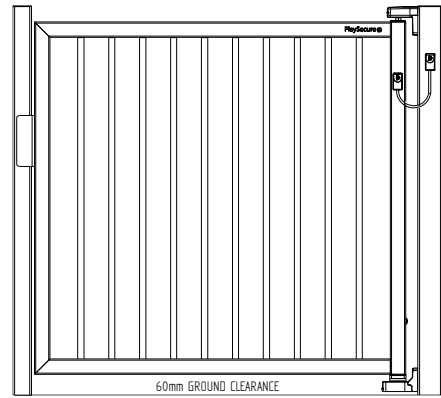
Gate Line

Before proceeding with gate installation, it's crucial to physically mark out the intended area for the gate installation, remove any obstructions and gauge any changes in gradients:

**1a**

Gradients

Gates should be installed on flat level ground, ensuring both posts are sufficiently buried 450mm in ground whilst maintaining 60mm ground clearance.

**1b**

5.0 Post Installation

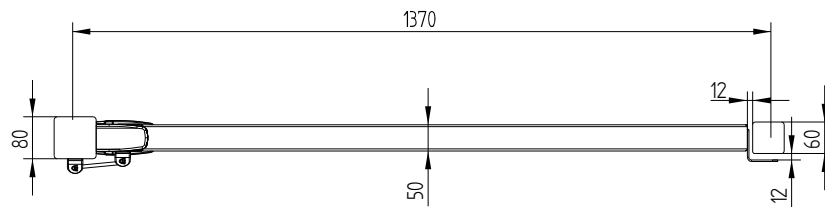
The PlaySecure® Gate ranges require the following total opening when marking out post hole excavations:

PlaySecure® Single Leaf Gate:

Outside to outside post dimension = 1390mm

Centre to centre post dimension = 1370mm

Recommended post mix quantity per post = 2 bags (20kg ea)

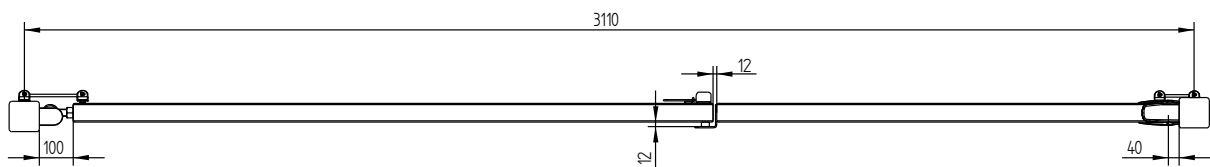


PlaySecure® Double Leaf Gate:

Outside to outside post dimension = 3210mm

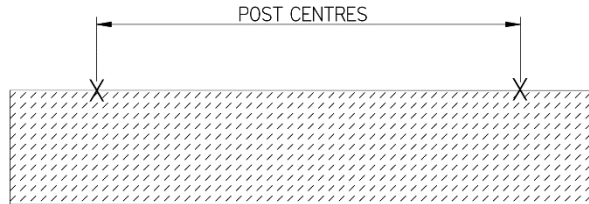
Centre to centre post dimension = 3110mm

Recommended post mix quantity per post = 3 bags (20kg ea)



Post Installation (Step by Step)

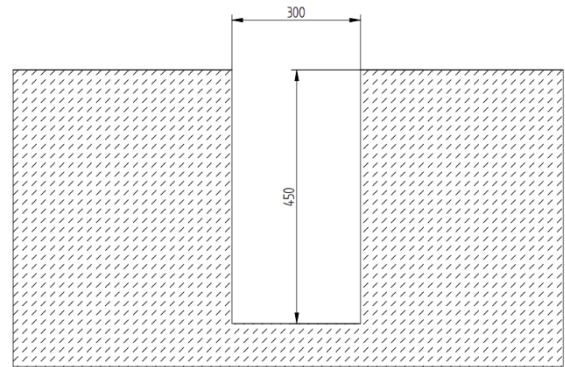
Observing the site recommendations in section 4.0, mark out the centres according to section 5.0 for your gate set up:



1



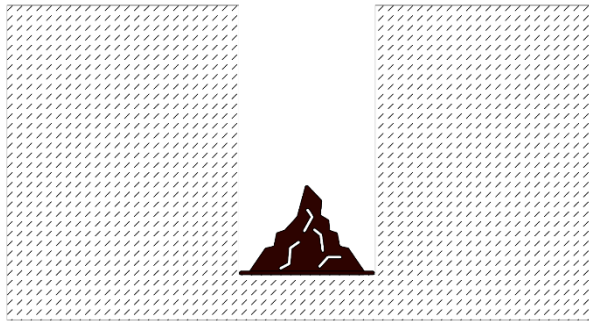
Excavate both holes 300mm (W) x 300mm (L) x 450mm deep.



2



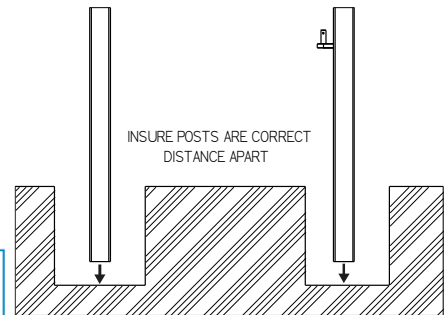
If your foundations are too deep, compact subbase into the hole, ensuring 450mm of post is buried in ground.



3



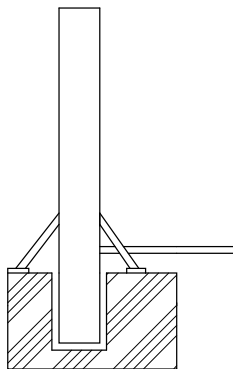
Place both posts into each excavated hole (ensuring the lasered holes of the single leaf hinge post face inline with the gate closed direction) and the eyebolt hook hinge post (for machinery gates) also face inline with the gate closed position:



4



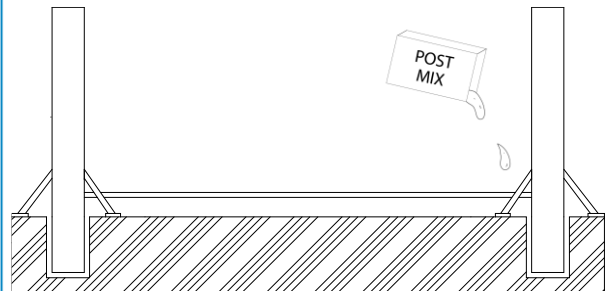
Once post posts are inserted loose in each hole, build a jig to keep posts in the set plumb position and to ensure their relationship between posts equals the gaps set in section 5.0.



5



Pour the concrete or post mix, ensuring a minimum grade of C20/C25, as per amounts suggested in 5.0. Ensure posts are plumb and cured to the advised bag time.



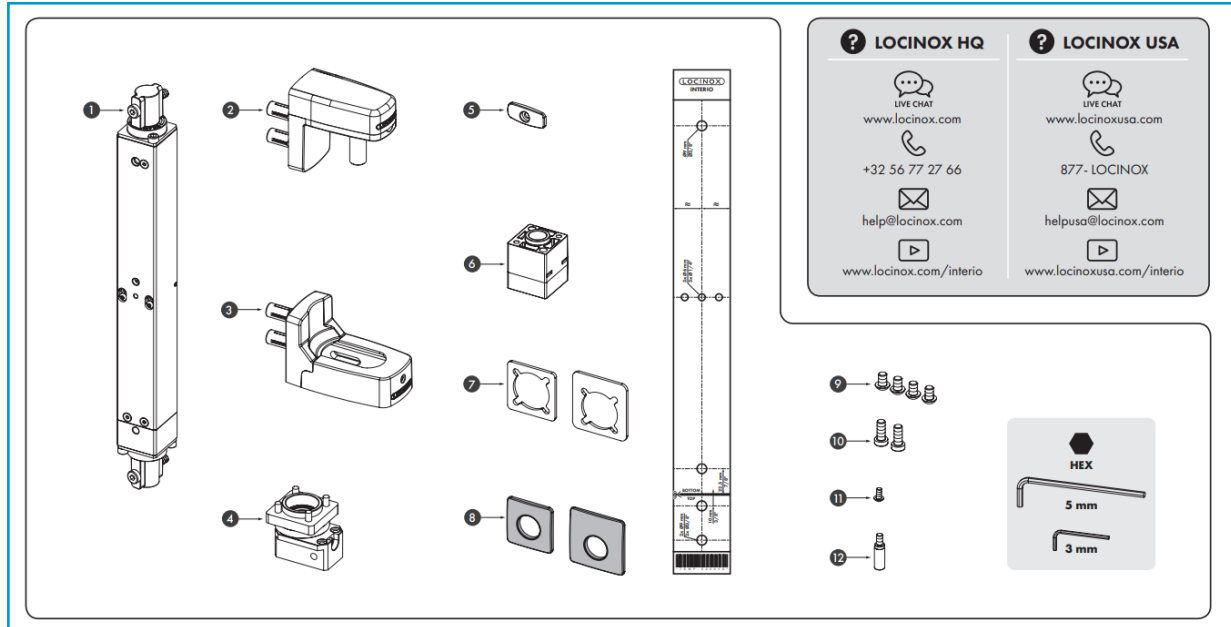
6



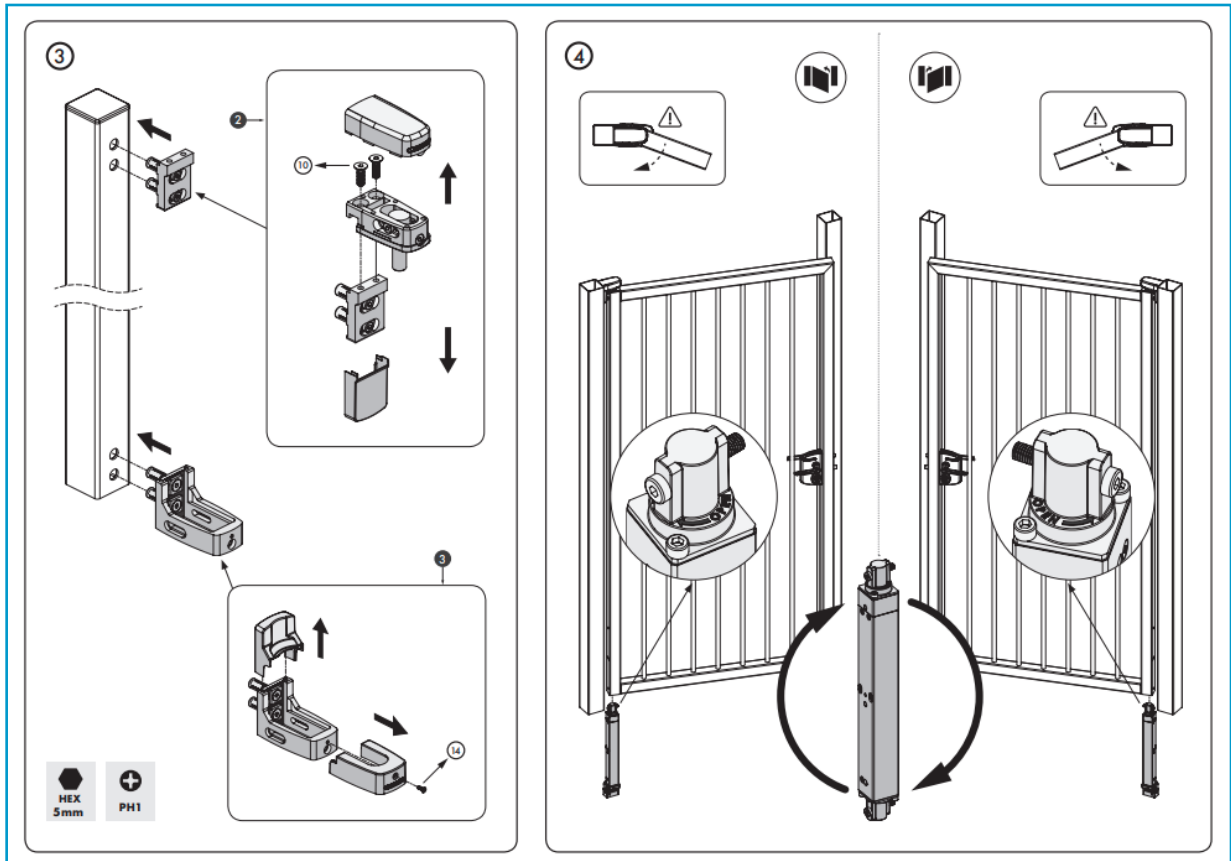
6.0 Locinox Interio Closer Installation

Note: your PlaySecure® Gates have already been lasered to accommodate the Locinox Interio closer. No drilling is required for installation. The below installation guidance has been taken direction from the Locinox Interio Installation Guide.

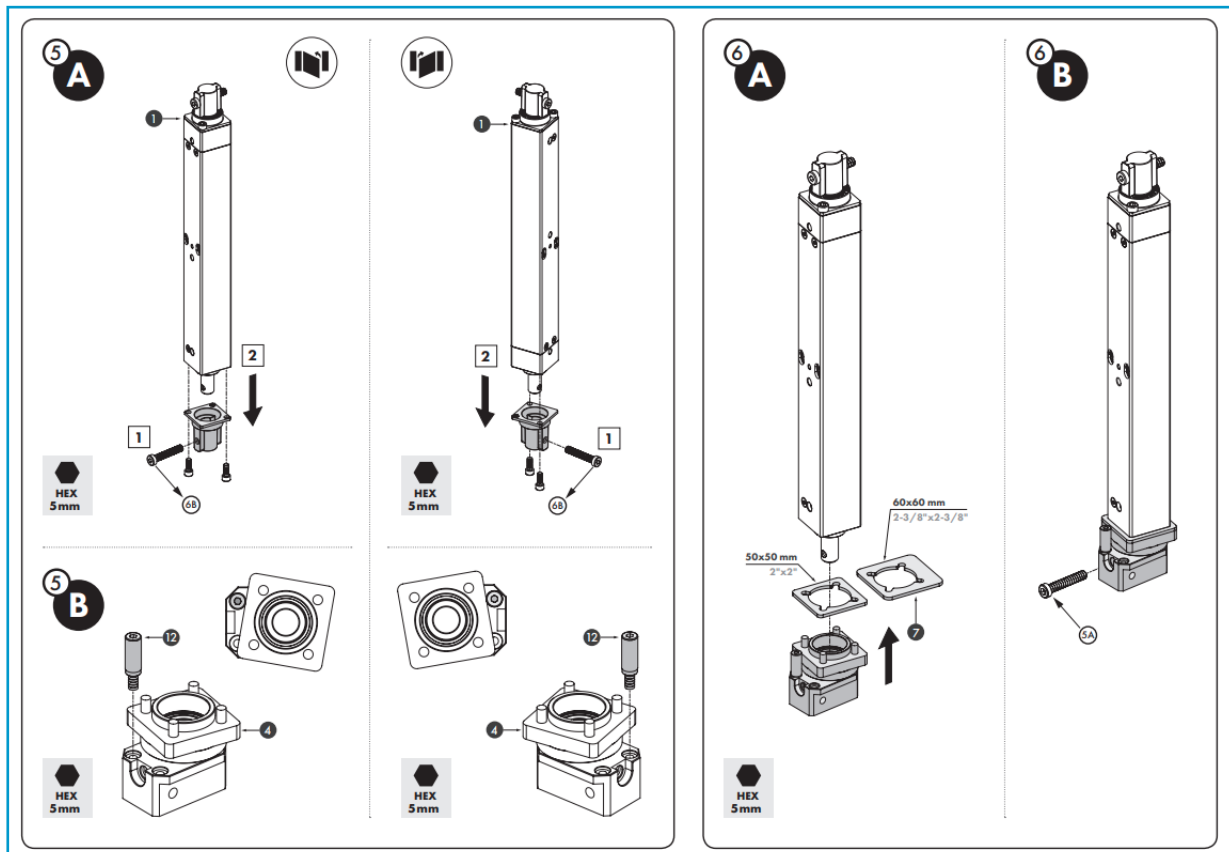
Components in the Kit:



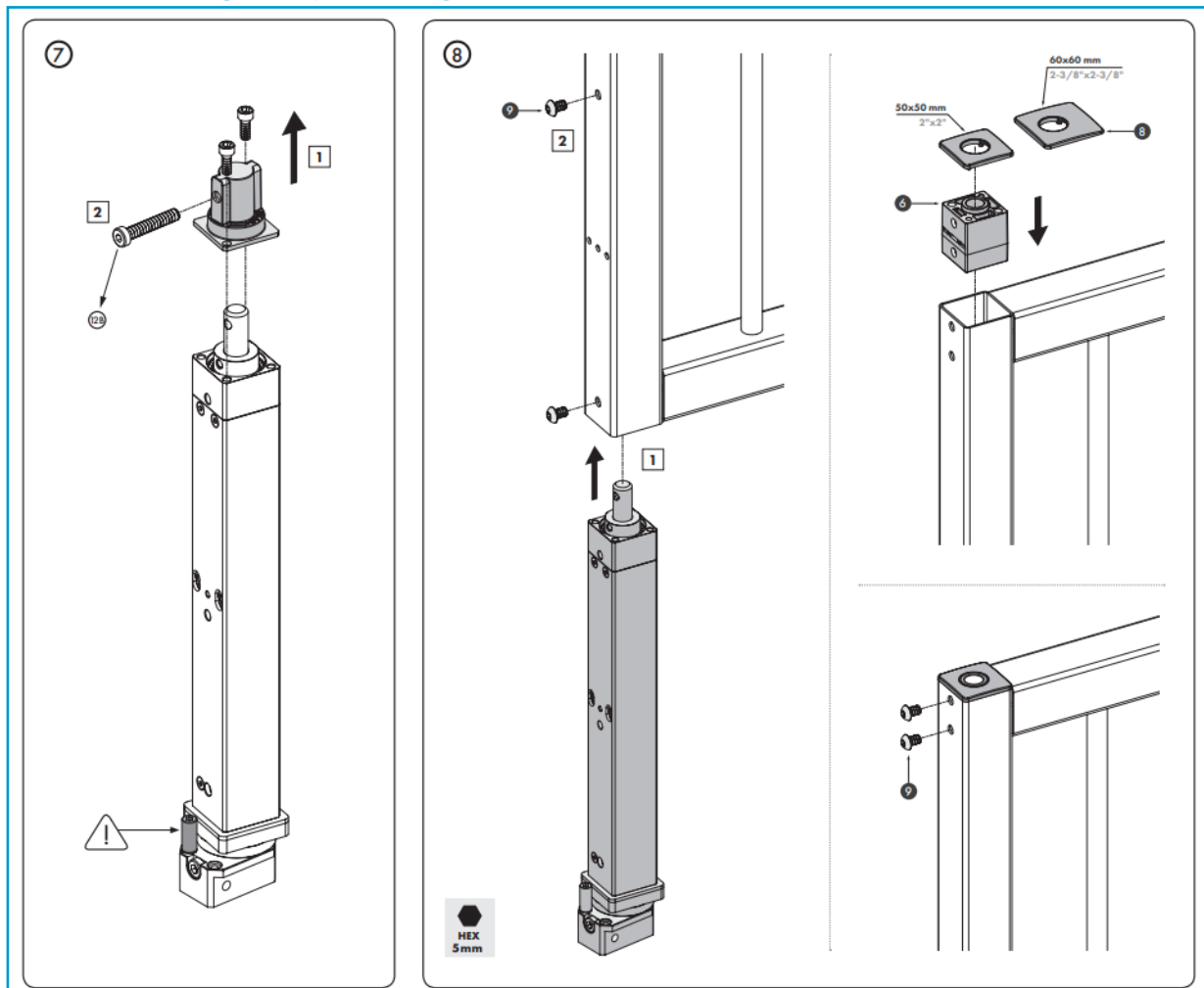
Hinge Bracket Installation / Closer Orientation:



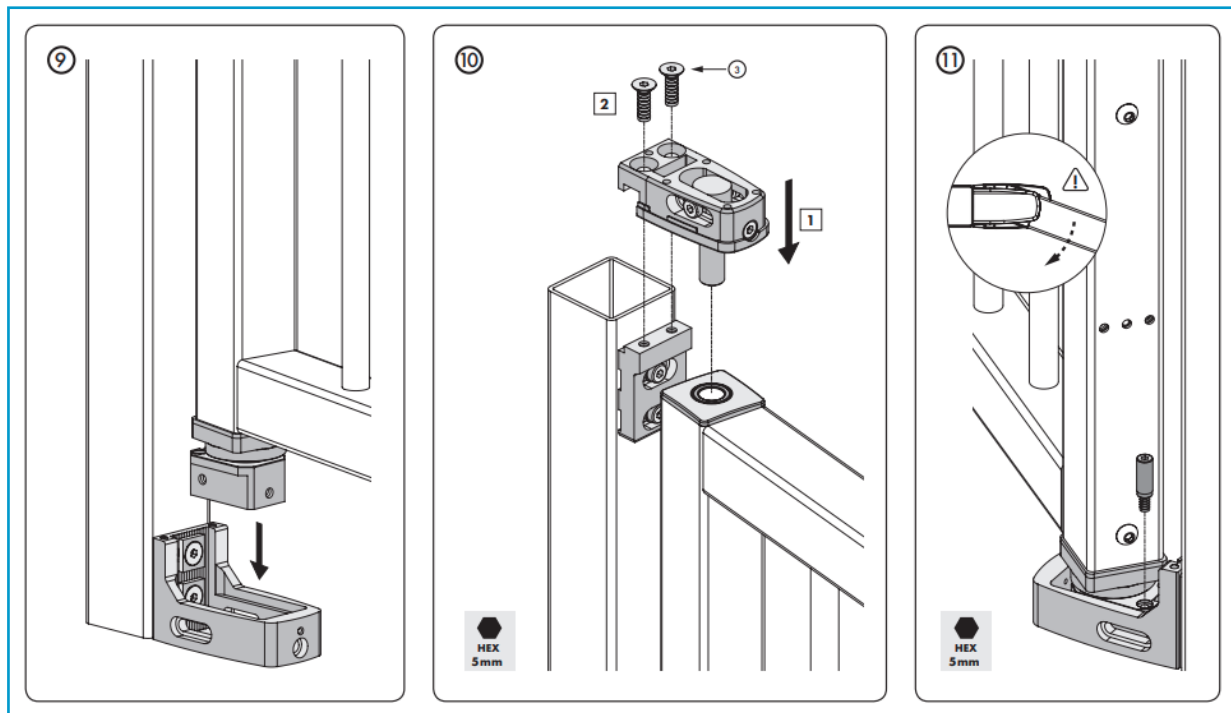
Closer bracket mounting:



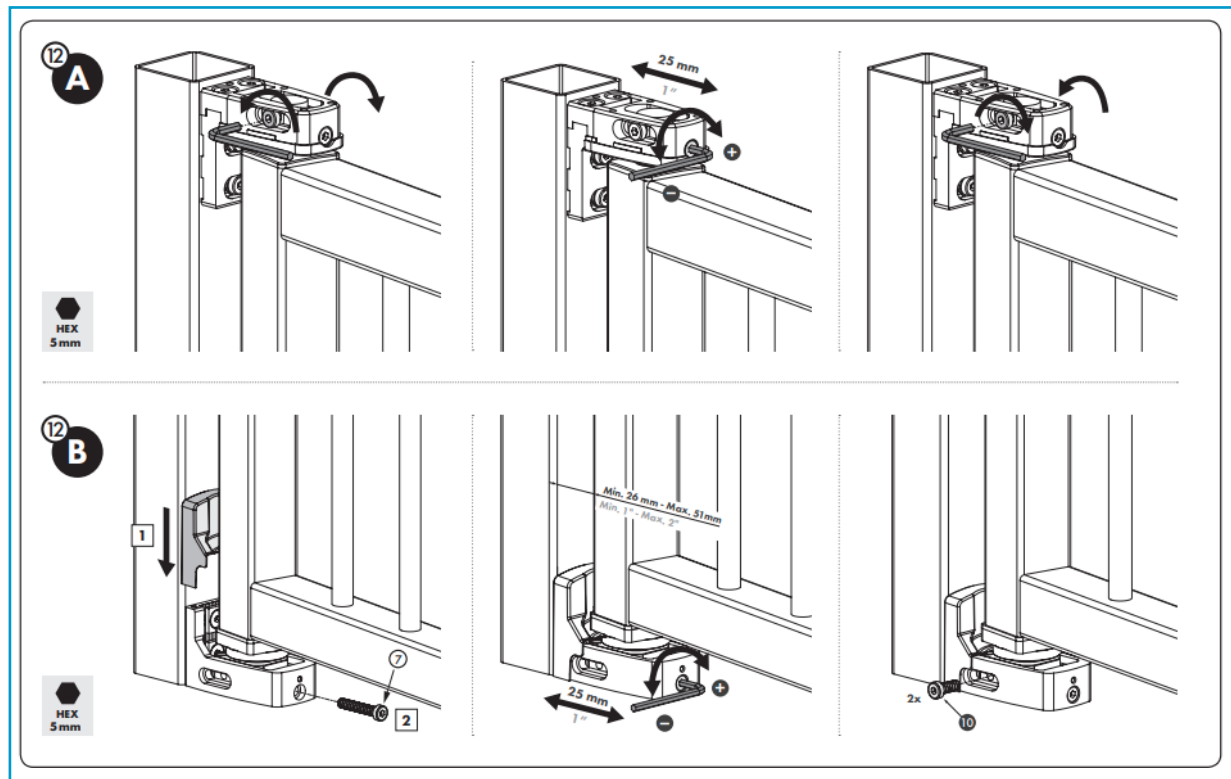
Closer mounting to PlaySecure® gate:



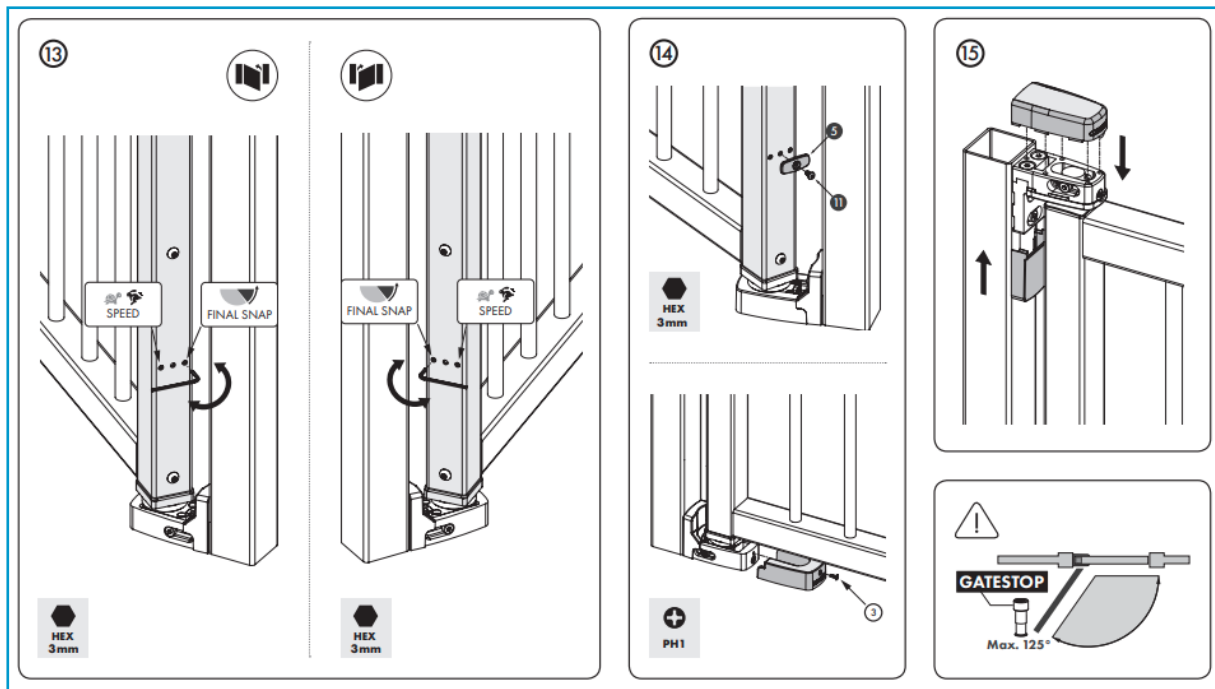
Mounting the gate to the hinge brackets:



Gap adjustment:



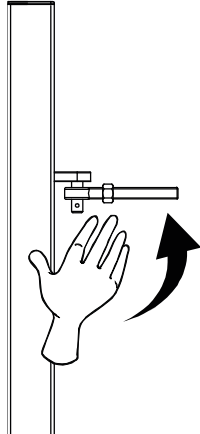
Final speed and closer adjustment:



7.0 Hanging Installation

On machinery access gates where the access gate hangs on conventional eyebolts, please follow the following installation instructions:

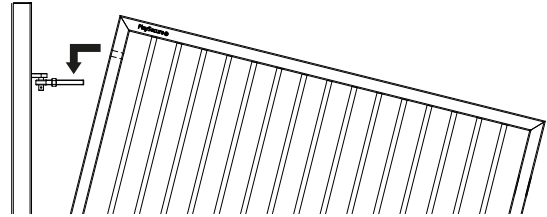
Place eyebolts onto the gate hooks. If needed, use a second person to keep the eyebolt in place on the inverted pin:



1



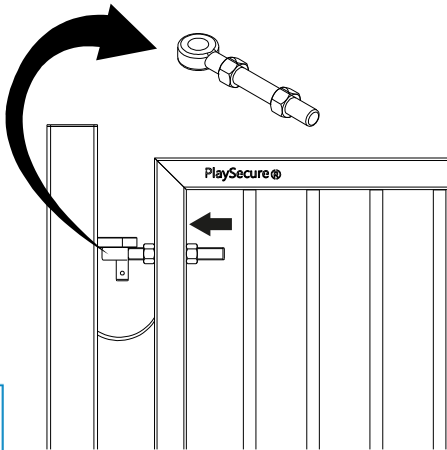
Ensure only one nut is on the hinge thread, roughly 50% from the end. Feed the machinery gate onto the threaded eyebolt, ensuring the thread passes through the gate frame.



2



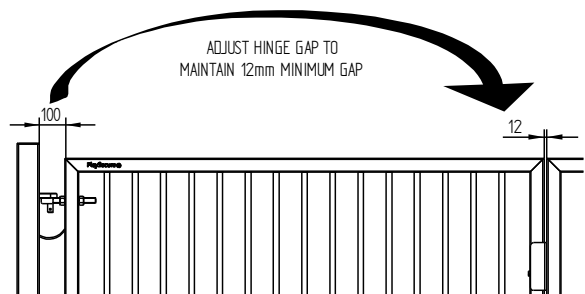
Secure the outer nut onto the thread to ensure the leaf is safe and secure.



3



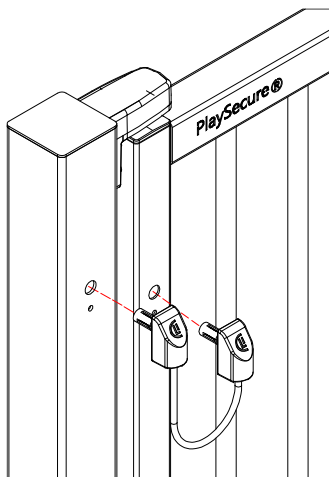
Adjust the top and bottom nuts to move the gate towards or away the hinge post, ensuring the gate is level and that a 12mm gap is maintained between leaves:



4



Once adjusted, install the Locinox B Safe Safety Teather:

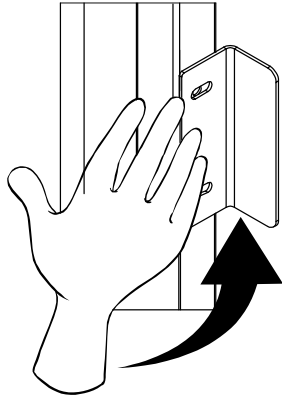


5



8.0 Hardware Kit Installation

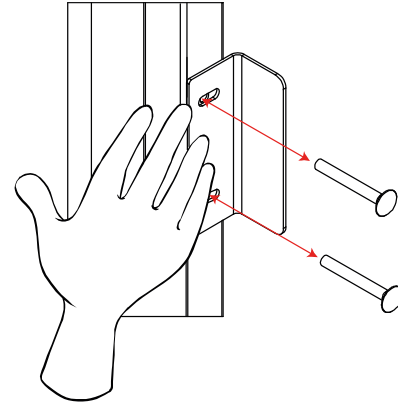
Located the slam plate, and hold against the catch post (single leaf version) or machinery leaf (double leaf version). Note, this acts as a stop so must stop the gate opening the non desired location.



1



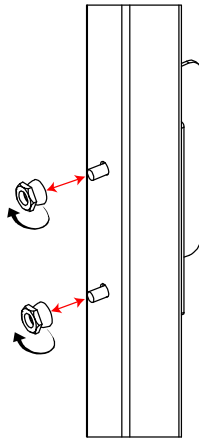
Insert 2 x M8 x 65mm Square Cup Head Bolts from the outside of the slam plate:



2



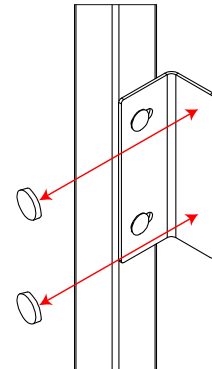
Secure with two shear nuts, using a spanner or torque gun.



3



Place two rubber bumps supplied by removing the backing paper and spacing at the top and bottom of the slam plate, ensuring contact is made with the adjacent post or leaf when closed.



4



9.0 Installation Sign Off Checklist



NOTE: to promote safety and best practise in compliance to RoSPA recommendations outlined in 'Gates and Access to Play and Wheeled Sports Areas' the following checklist should be used as a site sign-off measure to safeguard the safety and security of future gate users.



Action	Description	System	Remedial Action	Pass or Fail?	Initial	Date
Finger Entrapment Gaps	All gaps between hinge posts, gate styles and hardware should not be less than 12mm.	All	Adjust the gate accordingly on the adjustable gate eyes, ensure no gaps less than 12mm are present.			
Gate Closing Speed	The gate should not close quicker than 5 seconds	All	Adjust the self closer according to section 6.0 to ensure full gate movement does not exceed 5 seconds.			
Gate Colour	Gates should ideally be a different colour to the adjacent fence line	All	If gate colour matched fence line, ensure the gates are highlighted with high vis strips or other unique identification marks distinguishing gate from railing.			
Ground Clearance	The gap between ground and bottom of gate should not exceed 60mm	All	Excavate the ground level or re-install the hinge posts. If required, contact First Fence Limited for new posts or advice.			
Swing Direction	Gates should ideally open outward	All	If inward opening and no risk of street traffic or pavement, swap the handing on the self closer and change the orientation of the slam plate.			
BS 12604 Compliance	Safety tether installation	All	Ensure the Locinox B-Safe safety has been installed following current manufacturers guidelines.			

10.0 Maintenance Schedule

First Fence Limited recommends the following actions, to be built into a periodic check of the physical perimeter system:

Check Area	Result	Action
Slam plate rubber and security	Ensure the slam plate is still tight and not lose. Ensure rubber is still installed onto the plate.	Either adjust the slam plate tightness or reinstall HDPE rubber which is at least 12mm thick or more.
Locinox Interio Self Closer	A visual check to ensure all fixings are still in place, hinge brackets are not cracked and the closing speed is still greater than 5 seconds.	Replace or adjust the closer accordingly.
Locinox B-Safe Safety Tether	A visual check to ensure the nylon sleeve is free from damage or wear.	If damaged, replace with a like for like, available through First Fence Ltd.
Gate gaps	Ensure all gaps are still greater than 12mm.	Adjust accordingly. If gaps are less as a result of damage, condemn the gate until advise from First Fence Limited is obtained.
Damage to coating and finish	Damage to paint and surface due to vandalism or misuse.	If paint or finish has been damaged, ensure zinc spray and paint match repair is carried out.

Take the hassle out of your maintenance schedule:

First Fence Limited offer an annual inspection programme for your RoSPA park gates and fences, ensuring maximum chance of safety and security at all times.

11.0 Bill of Materials

Single leaf gate kits:

Image	Component	Qty (Per Kit)
	PlaySecure® Gate Leaf (To suit either 1.0m or 1.2m height)	1
	PlaySecure® Locinox Interio hinge post (to suit either 1.0m or 1.2m height)	1
	PlaySecure® Slam Post (to suit either 1.0m or 1.2m height)	1
	Locinox Interio Self Closer mechanism	1
	Locinox Safety Tether	1
	PlaySecure® Slam Plate (Part of the Accessories Fixing Kit Pack)	1
	PlaySecure® Slam Plate Rubber (Part of the Accessories Fixing Kit Pack)	2
	PlaySecure® Slam Plate M8 x 65mm Shear Nut and Fixings (Part of the Accessories Fixing Kit Pack)	2
	PlaySecure® Drop Bolt Assembly (included already attached to the primary leaf)	1

Double leaf gate kits:

Image	Component	Qty (Per Kit)
	PlaySecure® Closer Gate Leaf (To suit either 1.0m or 1.2m height)	1
	PlaySecure® Machinery Access Gate Leaf (To suit either 1.0m or 1.2m height)	1
	PlaySecure® Locinox Interio hinge post (to suit either 1.0m or 1.2m height)	1
	PlaySecure® Machinery Access Gate Hinge Post (To suit either 1.0m or 1.2m height)	
	Locinox Interio Self Closer mechanism	1
	Locinox Safety Tether	2
	PlaySecure® Slam Plate (Part of the Accessories Fixing Kit Pack)	1
	PlaySecure® Slam Plate Rubber (Part of the Accessories Fixing Kit Pack)	2
	PlaySecure® Slam Plate M8 x 65mm Shear Nut and Fixings (Part of the Accessories Fixing Kit Pack)	2
	PlaySecure® Drop Bolt Assembly (included already attached to the primary leaf)	1
	M19 x 150mm Eyebolts for Machinery Gates c/w nuts and washers	2