



## Sliding Security Gates

### PAS 68 & Security Ranges





FP2  
Security Sliding Gates



FP2.1  
Barricade Beams



FP3  
Hinged/Swing Security Gates



FP4  
Automatic Drop/Rising Arm Barriers



FP5  
Road Blockers & Rising Kerbs



FP5.1  
Rising & Static Bollards



FP6  
Manual Perimeter Security



FP7  
Pedestrian Gates & Turnstiles

Also available:

[Corporate Brochure](#)

[Your Guide to PAS 68](#)



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LoTracker - Cantilevered model 8  
Aperture up to 15m



Sliding Cantilevered Gates 10  
Aperture up to 10m



Sliding Tracked Gates 12  
Aperture up to 35m



Barricade Beams 14  
Aperture up to 8m



PAS 68 Terra Sliding Cantilevered Gate 18  
Aperture up to 6m



PAS 68 Terra Gate 20  
Aperture up to 6m



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Aperture up to 6m



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## Why Use Frontier Pitts?



From our UK HQ  
in Crawley, West Sussex



Frontier Pitts is more than just a Manufacturer:

90 years experience & accredited to BSi ISO 9001

National & International. Installations in over 90 countries

95 directly employed personnel, including multi-lingual staff & personnel that have been Frontier Pitts for 30+ years

Technical Consultants based at regional offices will visit any site within the British Isles, without charge or obligation, offering technical advice on the most appropriate & effective perimeter security solutions. Including BSi PAS 68 & CEN CWA 16221 standards.

Directly employed sales & support staff

Large product portfolio to suit all budgets & requirements

Standard product specifications are complimented by our bespoke design service. Previous accomplishments include a sliding gate system which secures a 70 metre aperture

Full 3D CAD Design. Site specific drawings issued to clients

British Engineering - Designed & built to last

Mechanical & Electrical Engineering Research & Development Programs

Comprehensive Training Program; ensures the client always receives the very best of our technical expertise

Dedicated Project Manager for each project. All work is executed under the strict control of our specially trained PMs

Fleet of vehicles including HGV's to ensure the equipment is safely delivered to site, with full ID tracking for security



Highly skilled, dedicated Mechanical & Electrical Field Engineers

Installation, Commissioning, Service & Maintenance

24hr / 7days a week manned UK Call Centre & Nationwide Breakdown Service

A range of Maintenance Contracts available to suit individual site requirements

Maintenance Contracts with response times in as little as 4 hours  
Comprehensive Customer Service

Highly skilled, directly employed engineers located nationally.  
Frontier Pitts do not use Sub Contractors

Full Installation & Commissioning Service

Civil, Electrical & Ground Works Team

BSi ISO 9001 Accredited and LPCB approved to LPS 1175

Verified and Founder member of the PSSA - Perimeter Security Suppliers Association - with the aim to raise the standards of the industry.

In house resources & skills - IT, Engineering, Fabricating, Maintenance & Installation - to overcome any possible obstacle

Spares Department, holding on average £200K of stock

Frontier Pitts is highly recommended by our existing & previous customers

Extra Fast Repair & Refurbishment for existing customers.

Total customer care for your peace of mind

In house secure IT servers, latest software and hardware

Experience of 'List X' regulations and data security.

## Accreditations



Frontier Pitts manufacture a large portfolio of Security Sliding Gates. Whether the requirement is for a simple, manually operated sliding gate, only used a few times a day, or a completely automated system used continuously, Frontier Pitts will design and manufacture a system designed to meet the sites exact needs. There are various options to consider when specifying your sliding gate, including:-

1. Which product range? PAS 68 Impact Tested HVM Anti Terra range Security Range
2. Width of road that the gate needs to secure
3. Runback distance
4. Conditions on site (weather/temperature, usage, etc) How many times per day will the gate be operated? Automatic or Manual
5. Sliding Gate Safety
6. Style of fenceline & other accessory requirements

Frontier Pitts manufacture both Cantilevered and Tracked styles of gate.

A Sliding Cantilevered Gate requires no track or support across the roadway - the gate leaf is supported by a main beam, which slides 100mm above the road surface. The balance is provided by a unique enclosed runback track, which enables the gate to be fully projected across the roadway without tipping.

The benefits of a Cantilevered Gate are:

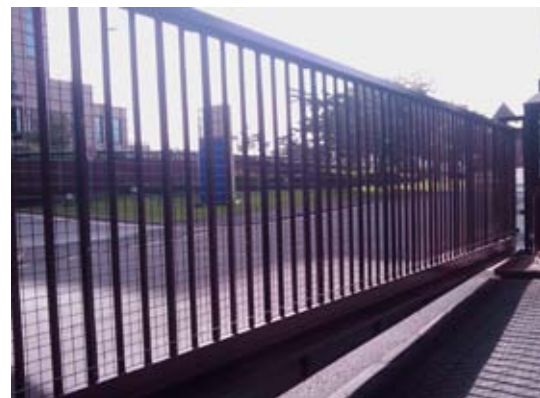
- Reduced civils cost
- Ease of installation; no need for road closures
- Reduced maintenance; no track to keep clear

Frontier Pitts Sliding Tracked Gates are modelled on either the LoTracker or Sliding Cantilevered Gates, and incorporates similar design features. They are designed to run on a track installed in the roadway. The track allows wider gates and, therefore, wider apertures to be secured by sliding gates

All gates are supplied as standard with an inverter. This provides two advantages over direct online starting:

- power supply from a more available variant
- improved control over force limitation, therefore increasing the safety of the gate.

Three phase supply is available as an option.



Cantilevered Gates



Tracked Gates

## Terra Sliding Cantilevered Gate (Terra Gate MkII) & the original Terra Gate (tracked)

The Anti Terra range includes equipment successfully impact tested to the BSi PAS 68 specification. The different category ratings are all designed to illustrate how the perimeter security equipment will arrest an energy created by various masses and speeds, as illustrated below:

Vehicle & Vehicle Mass				
MI	NI	N2	N3	
1500kg	3500kg	7500kg laden	7500kg empty	18000kg
Speeds		30mph / 48kph	40mph / 64kph	50mph / 80kph

When specifying your PAS 68 equipment, first establish what speed the different types of vehicles could reach on site before approaching the barrier & therefore how much energy the barrier may need to stop.

For further information please see Frontier Pitts "Your Guide to PAS 68" or contact the PAS 68 Specialist Technical Consultant on 01293 422800



### Terra Sliding Cantilevered Gate

The Terra Gate Mk II Impact tested to BSi PAS 68 & CEN CWA 16221



7500kg	N3	80	90	1.5	0.0
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### Terra Gate - Tracked

Sliding Gate successfully PAS 68 impact tested in the fully closed & half open positions. Fully functional after impact



7500kg	N3	80	90	0.0	0.0
7500kg	N3	80	90	0.0	0.0



## LoTracker

The renowned Cantilevered Sliding Gate from Frontier Pitts which secures widths up to 15m. Bespoke available.



The ultimate cantilevered sliding gate (non PAS 68 rated) which requires no ground track or support across the roadway. The gate leaf is supported by a main bottom beam, which slides 100mm above the road surface. The balance is provided by a unique enclosed runback track, which enables the gate to be fully projected across the roadway without tipping.

100% duty rating - designed for continuous & frequent use. Power is supplied from a single phase 230V supply. Please see page 6.

Typical operating speeds of 225-500mm/second\* depending on configuration.

Safety control systems: Vehicle detector loops, safety photocells, ultra-sonic sensors and safety edges are available. Accessories: Signage, audible alarms and flashing beacons. Please see page 22.

Access controls: A wide range of access control systems are available. Please see page 24.

Finish. Various options available, including: Shotblasted, hot zinc sprayed, primed & finished with a final coat of polyurethane paint. Client to advise RAL paint number. This process provides a 20-year corrosion protection system for exterior; industrial polluted inland sites to BS5493, 1977 (Revised 1984).

Various infills available including bar, weldmesh, sheet, and bespoke such as wood and ornate.

\* This is subject to a risk assessment to ensure the automatic equipment complies to BS EN 12453  
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Applications: Heavy Duty Sliding Gate without the PAS 68 specification.

Banks | Depots | Cargo Parks | Ports | Airports | Warehouses | Delivery entrances | Utility | Heavy Industrial & Commercial Premises



Bespoke LoTracker Cantilevered Gate  
5m high x 3m wide, with special acoustic sheet infill.



### Features

- 100% Rated Motor
- Override switch
- Security lock on door
- Switched fuse supply double pole isolator
- Mains failure indicator lamp
- Earth bonded door
- Easy accessible fuse unit
- Motor protection

### Construction

The gate leaf is a fully welded construction of rectangular hollow section, low carbon steel to BS4848 Pt.2. Posts size: 100 x 100mm. Infill - various infills available, including bar, solid sheet, weldmesh, etc. Standard bar infill: Vertical 50mm x 25mm ERW bar infill at approximately 180mm centres, backed by 8 gauge x 50mm square galvanised weld mesh, painted to match

### Minimum length of runback track:

For gate apertures of 10 - 12m  
Runback Length = Gate Aperture x 1.5 + 500mm  
For gate apertures of 12m+ Please contact the Technical Sales Department on 01293 422800

### CIVIL REQUIREMENTS

Gate leaf Foundation - L: Runback length + 400mm  
x W: 1000mm x D: 300mm

### Receptor Post Foundation

L: 600mm x W: 1000mm x D: 300mm  
(Note: Power and control wiring ducts to be incorporated into foundations)

### ELECTRICAL REQUIREMENTS

Single & three phase supply available.



## Sliding Cantilevered Gate

Secures a maximum aperture up to 10m, bespoke available.

Applications: Banks | Depots | Cargo Parks | Ports | Airports | Car Park | Warehouses | Delivery Entrances | Industrial & Commercial Premises



The popular Sliding Cantilevered Gate requires no ground track or support across the roadway. The gate leaf is supported by a main bottom beam, which slides 100mm above the road surface. The balance is provided by a unique runback track, which enables the gate to be fully projected across the roadway without tipping.

100% duty rating - designed for continuous & frequent use. Power is supplied from a single phase 230V supply. Please see page 6.

Typical operating speeds of 200-250mm/seconds\* depending on configuration.



Safety control systems: Vehicle detector loops, safety photocells, ultra-sonic sensors and safety edges are available. Accessories: Signage, audible alarms and flashing beacons. Please see page 22.

Access controls: A wide range of access control systems are available. Please see page 24.

Finish. Various options available, including: Shotblasted, hot zinc sprayed, primed & finished with a final coat of polyurethane paint. Client to advise RAL paint number. This process provides a 20-year corrosion protection system for exterior, industrial polluted inland sites to BS5493, 1977 (Revised 1984). Alternatively, acid dipped then hot galvanized available on smaller gates.

Various infills available including bar, weldmesh, sheet, and bespoke such as wood and ornate.

*\*This is subject to a risk assessment to ensure the automatic equipment complies to BS EN 12453*



Bespoke Cantilevered Gate with special wood infill.

- Features
- 100% Rated Motor
  - Override switch
  - Security lock on door
  - Switched fuse supply double pole isolator
  - Mains failure indicator lamp
  - Earth bonded door
  - Easy accessible fuse unit
  - Motor protection

Construction

The gate leaf is a fully welded construction of rectangular hollow section, low carbon steel to BS4848 Pt.2. Post size: 80 x 80mm.

Infill - various infills available, including bar, solid sheet, weldmesh, etc. Standard bar infill: Vertical 50mm x 25mm ERW bar infill at approximately 180mm centres, backed by 8 gauge x 50mm square galvanised weld mesh, painted to match

Minimum length of runback track:

- For gate apertures of 8m
- Runback = Aperture x 1.5
- For gate apertures of 8m+ Please contact the Technical Sales Department on 01293 422800

CIVIL REQUIREMENTS

Gate leaf Foundation - L:Runback length + 300mm x W:1000mm x D:300mm

Receptor Post Foundation

L:600mm x W:1000mm x D:300mm

(Note: Power and control wiring ducts to be incorporated into foundations)

ELECTRICAL REQUIREMENTS

Single & three phase supply available.





## Sliding Tracked Gate

Secures a maximum aperture up to 35m, bespoke available.

Applications: Banks | Depots | Cargo parks | Ports | Airports | Car Park | Warehouses | Delivery entrances | Industrial & Commercial Premises | Large road widths



Sliding Tracked Gates are designed to run on a track installed in the roadway and are able to secure wide apertures. The trackwork is cast into the concrete foundation which is poured in two stages. The track is bolted down to the first pour concrete and the second pour brings the level up to finished road level. The track is normally 5mm below finished road level.

100% duty rating - designed for continuous & frequent use. Power is supplied from a single phase 230V supply. Please see page 6.

Typical operating speed of 225-500mm/second\*, depending on configuration.

Safety control systems: Vehicle detector loops, safety photocells, ultra-sonic sensors and safety edges are available. Accessories: Signage, audible alarms and flashing beacons. Please see page 22.

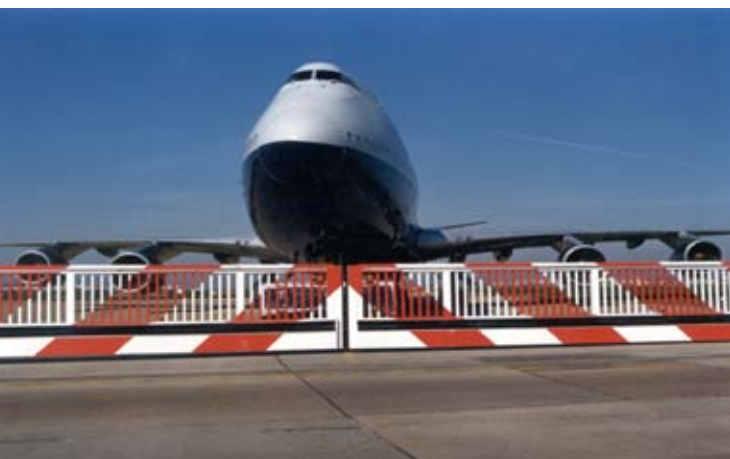
Access controls: A wide range of access control systems are available. Please see page 24.

Finish. Various options available, including: Shotblasted hot zinc sprayed, primed & finished with a final coat of polyurethane paint. Client to advise RAL paint number.

This process provides a 20-year corrosion protection system for exterior, industrial polluted inland sites to BS5493, 1977 (Revised 1984). Alternatively, acid dipped then hot galvanized.

Various infills available including bar, weldmesh, sheet, and bespoke such as wood and ornate.

*\*This is subject to a risk assessment to ensure the automatic equipment complies to BS EN 12453*



- Features
- Instantly Reversible
  - 100% Rated Motor
  - Single phase (inverter converts to three phase)
  - Override switch
  - Security lock on door
  - Switched fuse supply double pole isolator
  - Mains failure indicator lamp
  - Earth bonded door
  - Easy accessible fuse unit
  - Motor protection

Construction

The gate leaf is a fully welded construction of rectangular hollow section, low carbon steel to BS4848 Pt.2. Post size: 80x80mm/100x100mm dependent on gate size.

Infill - various infills available, including bar, solid sheet, weldmesh, etc. Standard bar infill: Vertical 50mm x 25mm ERW bar infill at approximately 180mm centres, backed by 8 gauge x 50mm square galvanised weld mesh, painted to match.

Minimum length of runback track:

For gate apertures of 8m: Runback = Aperture + 1.5

For gate apertures of 8m+ Please contact the Technical Sales Department on 01293 422800

CIVIL REQUIREMENTS

Gate leaf Foundation - L: Runback length + 400mm x W:1000mm x D:300mm.

Receptor Post Foundation L:600mm x W:1000mm x D:300mm (Note: Power and control wiring ducts to be incorporated into foundations)

ELECTRICAL REQUIREMENTS

6 amp, 3 wire, 230v, 50hz, single phase





## Barricade Beam

The Heavy Duty Sliding Cantilevered Beam Gate  
Widths up to 8m. Bespoke available.



The Barricade Beam is a fully cantilevered, impact resistant (non PAS 68) sliding beam that requires no ground track or intermediate support across the roadway. The beam traverses the roadway at a centre-line height of 900mm. It engages with a framework mounted on the far side of the roadway.

100% duty rating - designed for continuous & frequent use. Power is supplied from a single phase 230V supply. Please see page 6.

Typical operating speeds of 225-500mm/seconds\* depending on length and configuration.

Safety control systems: Vehicle detector loops, safety photocells, ultra-sonic sensors and safety edges are available. Accessories: Signage, audible alarms and flashing beacons. Please see page 22.

Access controls: A wide range of access control systems are available. Please see page 24.

Finish. Various options available, including: Shotblasted, hot zinc sprayed, primed & finished with a final coat of polyurethane paint. Client to advise RAL paint number. This process provides a 20-year corrosion protection system for exterior, industrial polluted inland sites to BS5493, 1977 (Revised 1984).

*\*This is subject to a risk assessment to ensure the automatic equipment complies to BS EN 12453*



Applications: Sites requiring Anti-ram security solutions without the PAS 68 rating.

Banks | Depots | Cargo Parks | Ports | Airports | Car Park | Warehouses | Delivery Entrances | Utility | Heavy Industrial & Commercial Premises



Runback of Barricade Beam fully encased in pedestrian guard rail to ensure no trapping areas.

- Features
- Instantly Reversible
  - 100% Rated Motor
  - Override switch
  - Security lock on door
  - Switched fuse supply double pole isolator
  - Mains failure indicator lamp
  - Earth bonded door
  - Easy accessible fuse unit
  - Motor protection



Construction  
The beam is a fully welded construction of rectangular hollow section, low carbon steel to BS4848 Pt.2.

Minimum length of runback track:  
Beam width x 1.6 + 200mm

CIVIL REQUIREMENTS  
Cabinet base: 1400mm sq x D: 400mm

Receptor Post Foundation  
L: 1400mm x W: 700mm x D: 300mm concrete  
(Note: Power and control wiring ducts to be incorporated into foundations)

ELECTRICAL REQUIREMENTS  
Single & three phase supply available.



Above: Barricade Beam Cabinet foundation

Left: Barricade Beam Receptor Post foundation





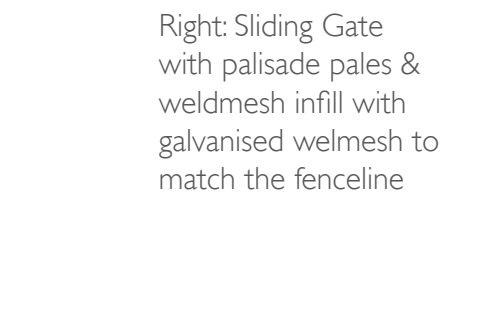
Sliding Gate interlock system



Bi-parting pair of Sliding Gates which can operate individually for smaller vehicles or together for larger vehicles.



Left: Sliding Gate with special weldmesh infill powder coated to match frame. Includes special signage specific to client's requirements



Right: Sliding Gate with palisade pales & weldmesh infill with galvanised weldmesh to match the fence line



Large Sliding Gates securing an airport runway



The PAS 68 Sliding Cantilevered Gate from Frontier Pitts successfully PAS 68 impact tested with a 7500kg vehicle travelling at 50mph



## PAS 68 Terra Sliding Cantilevered Gate

Also known as the Terra Gate MkII

V Sliding Gate 7500[N3]/80/90:1.5/0.0  
 Tested dimensions: width 4500mm, height 3000mm  
 Maximum width: 6000mm

Applications: Sites that require equipment that meets a high level of the PAS 68 specification

High Security | Anti Terrorist | Government | Military | Embassies | Banks | Utilities | Airports



Terra Gate MkII Pre Test



Terra Gate MkII Post Test



Successfully impact tested to the latest BSi PAS 68:2010 specification stopping a 7500kg N3 vehicle travelling at 50mph (80kph) which equates to 1852kj

Maximum crash beam length 6000mm  
 Power is supplied from a three phase and neutral supply.  
 Designed for easy installation and maintenance.

The Terra Sliding Cantilevered Gate can be interfaced to any access control systems.

### BENEFITS & FEATURES

- Minimal site penetration
- Variable heights available (standard 2400mm) up to 5000mm
- Shallow foundation depths of only 500mm required
- Gate leaf with Heavy Duty Crash Impact Beam.
- Heavy duty posts support the gate leaf
- Cantilevered Gate, no track or support across the roadway is required, therefore no roadway excavation required
- The balance is provided by a unique enclosed "runback" which enables the gate to be fully projected across the roadway without tipping
- Electronic control motor drive unit
- Manual operation under power fail conditions
- Retro fit possible to existing gate on site.
- Successfully impact tested to the latest BSi PAS 68:2010 specification stopping a 7500kg N3 vehicle travelling at 50mph (80kph) which equates to 1852kj

Option of an UPS (Uninterrupted Power Supply) is available if the gate is required to be re-opened during power failure.

DUTY CYCLE – 100%

OPERATING SPEED  
 Typical operating speed of 250-500mm/second\*, depending on configuration.

OPTIONAL ACCESSORIES  
 UPS (Uninterrupted Power Supply)  
 EFO (Extra Fast Operation)  
 Disengaging box - manual override  
 100/200mm Traffic Light System  
 High Security Cabinet

SAFETY - Option of vehicle detector loops and safety photocell beams, flashing beacon, audible alarm, safety edge, etc

CIVIL REQUIREMENTS  
 Gate Base Foundation  
 L:2800mm x W:1500mm x D:500mm  
 (Note: Power and control wiring ducts to be incorporated into foundations)

Receptor Post Foundation  
 L:2800mm x W:1500mm x D:500mm

ELECTRICAL REQUIREMENTS POWER  
 Three Phase Supply and Neutral

\*This is subject to a risk assessment to ensure the automatic equipment complies to BS EN 12453



The only PAS 68 Sliding Gate in the world to be impact tested in the fully closed & half open positions, and remain fully functional after impact.



## PAS 68 Terra Gate (Tracked)

Impact tested in the fully closed position & half open positions.  
 V Sliding Gate 7500[N3]/80/90:0.0/0.0  
 Tested dimensions : width 3000mm, height 3000mm  
 Maximum width: 6000mm

Applications: Sites that require a high level of PAS 68 security

High Security | Anti Terrorist | Government | Military | Embassies | Banks | Utilities | Airports



Terra Gate with standard bar



PAS 68 Terra Gate impact test in the half open position



PAS 68 Terra Gate impact test in fully closed position



Successfully impact tested in accordance with BSi PAS 68 specification stopping a 7500kg vehicle travelling at 50mph (80kph) which equates to 1852kj.

Maximum crash beam length 6000mm  
 Power is supplied from a three phase and neutral supply.  
 Designed for easy installation and maintenance.

The Terra Gate can be interfaced to any access control systems.

### BENEFITS & FEATURES

- Zero site penetration
- Fully functional after impact, even after crash test in the half open position
- Variable heights available up to 5000mm (std 2400mm)
- Shallow foundation depths of only 300mm required
- Gate leaf with Heavy Duty Crash Impact Beam.
- Heavy duty posts support the gate leaf
- Electronic control motor drive unit
- Manual operation under power fail conditions



Option of an UPS (Uninterrupted Power Supply) is available if the gate is required to be re-opened during power failure.

DUTY CYCLE – 100%

### OPERATING SPEED

Typical operating speeds of 250-2000mm/second\* depending on configuration

### OPTIONAL ACCESSORIES

- UPS (Uninterrupted Power Supply)
- EFO (Extra Fast Operation)
- Disengaging box - manual override
- 100/200mm Traffic Light System
- High Security Cabinet

SAFETY - Option of vehicle detector loops and safety photocell beams, flashing beacon, audible alarm, safety edge, etc

### CIVIL REQUIREMENTS

Gate Base Foundation  
 L:4000mm x W:2000mm x D:280mm  
 (Note: Power and control wiring ducts to be incorporated into foundations)

Receptor Post Foundation  
 L:4000mm x W:2000mm x D:280mm

### ELECTRICAL REQUIREMENTS POWER

Three Phase Supply and Neutral

\*This is subject to a risk assessment to ensure the automatic equipment complies to BS EN 12453

The Terra Beam is based on the design of the PAS 68 Terra Sliding Cantilevered Gate.



## Terra Beam

Based on the PAS 68 Terra Sliding Cantilevered Gate  
 V Sliding Gate 7500[N3]/80/90:0.0/0.0  
 Tested dimensions : width 3000mm  
 Maximum width: 6000mm

Applications: Sites that require a high level of PAS 68 security

High Security | Anti Terrorist | Government | Military | Embassies | Banks | Utilities | Airports



Based on the PAS 68 impact tested Terra Sliding Cantilevered Gate



Team Beam whilst open



Terra Beam design in based on the PAS 68 Terra Sliding Cantilevered Gate



The Terra Beam is based on the Terra Sliding Cantilevered Gate which has been successfully impact tested to the latest BSi PAS 68:2010 specification stopping a 7500kg vehicle travelling at 50mph (80kph) which equates to 1852kj.

Maximum crash beam length 6000mm.

Power is supplied from a three phase and neutral supply.

Designed for easy installation and maintenance.

The Terra Beam can be interfaced to any access control systems.

### BENEFITS & FEATURES

- Based on the PAS 68 impact tested Terra Sliding Cantilevered Gate which has been successfully impact tested to the latest BSi PAS 68:2010 specification stopping a 7500kg N3 vehicle travelling at 50mph (80kph) which equates to 1852kj
- Zero site penetration
- Shallow foundation depths of only 300mm required
- Heavy Duty Crash Impact Beam.
- Heavy duty posts support the beam
- Electronic control motor drive unit
- Manual operation under power fail conditions

Option of an UPS (Uninterrupted Power Supply) is available if the gate is required to be re-opened during power failure.

DUTY CYCLE – 100%

### OPERATING SPEED

Typical operating speeds of 250-500mm/seconds\*, depending on length and configuration.

### OPTIONAL ACCESSORIES

- UPS (Uninterrupted Power Supply)
- EFO (Extra Fast Operation)
- Disengaging box - manual override
- 100/200mm Traffic Light System
- High Security Cabinet

SAFETY - Option of vehicle detector loops and safety photocell beams, flashing beacon, audible alarm, safety edge, etc

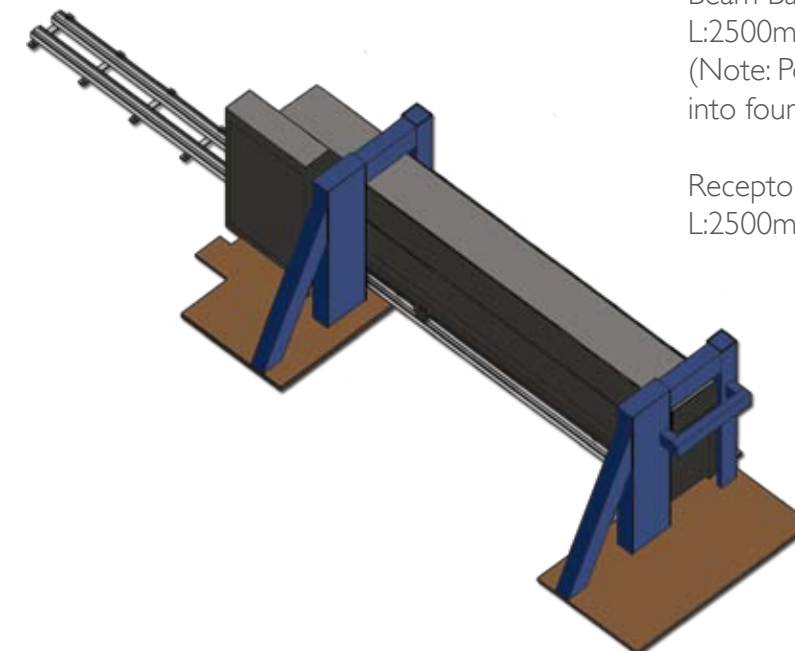
### CIVIL REQUIREMENTS

Beam Base Foundation  
 L:2500mm x W:3500mm x D:500mm  
 (Note: Power and control wiring ducts to be incorporated into foundations)

Receptor Post Foundation  
 L:2500mm x W:3500mm x D:500mm

ELECTRICAL REQUIREMENTS POWER  
 Three Phase Supply

\*This is subject to a risk assessment to ensure the automatic equipment complies to BS EN 12453





WARNING



NO PEDESTRIANS



ELECTRICAL WARNING



Sliding Gate Safety

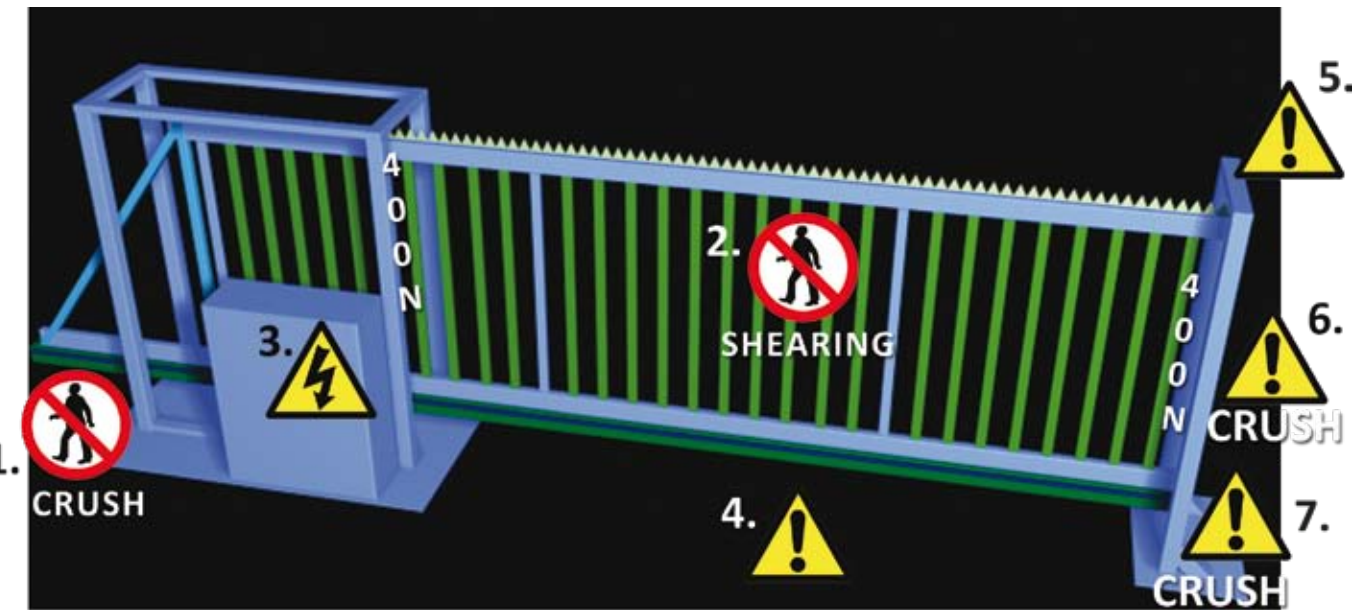
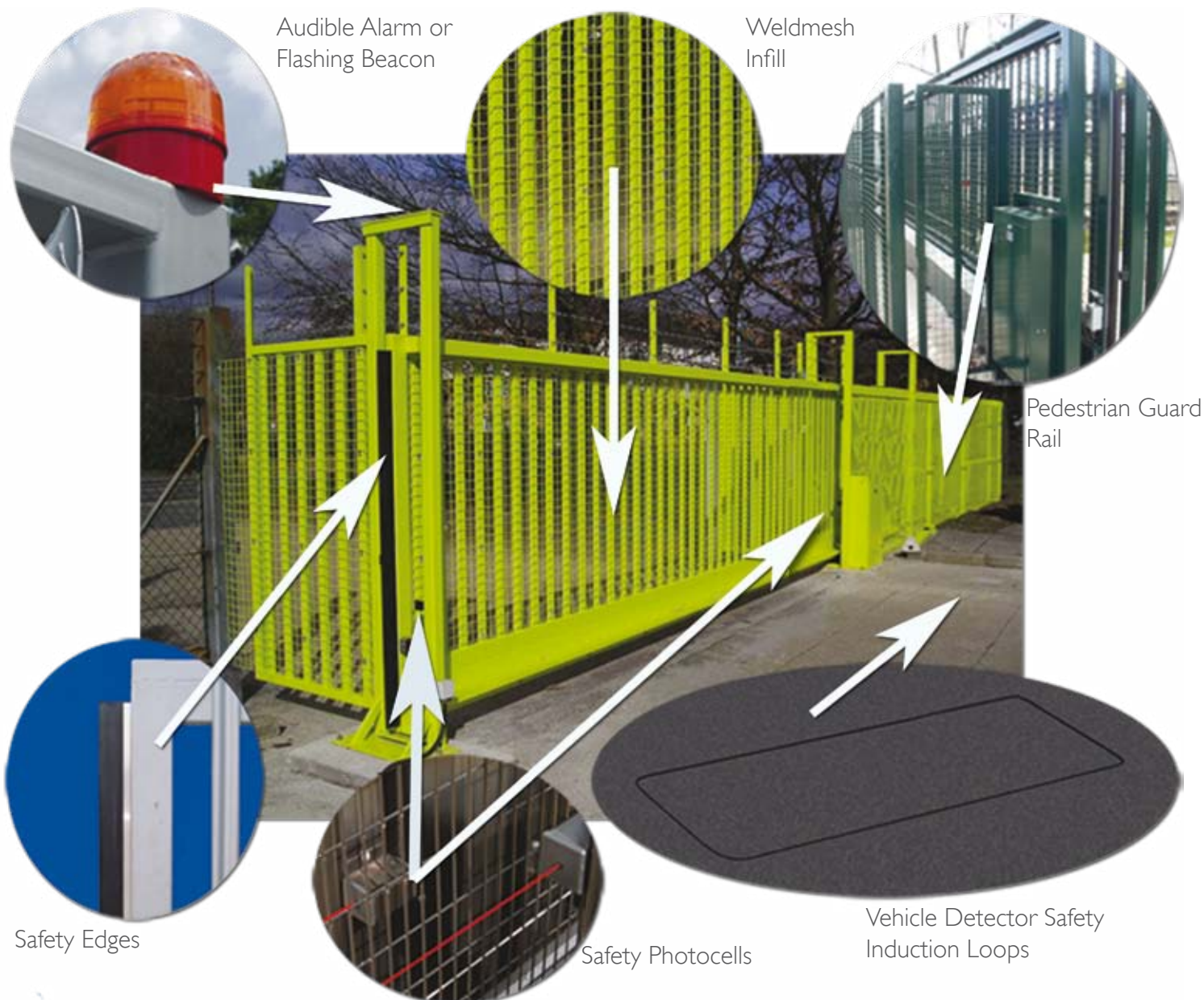
THE SOLUTIONS

Sliding Gate Safety

THE DANGERS



At Frontier Pitts, we highly recommend the following safety features are fitted to your sliding gate to enhance its ability to comply to safety standards and alleviate the dangers associated with automatic gates.



THE SOLUTIONS

1. A Pedestrian Guard Rail (fence panels) should be fitted around the runback area of the sliding gate. This is to prevent serious injury to a person should they stray into that area whilst the gate is operating.
2. Pedestrians should not put their limbs through the bars of the gate. Weldmesh infill should be clipped to the gates infill bars.
3. Awareness needs to be given to the Sliding Gate's Electrical Control Cabinet
4. Vehicle Detector Safety Induction Loops - loops cut into the road surface. These will prevent the gate from closing on a vehicle within the aperture.
5. Audible Alarm and/or flashing beacon provides an audible or visible warning that the gate is in operation.
6. Safety Photocells. An infra-beam which spans the aperture of the gate opening. If an object breaks this beam, the gates will stop. Usually two pairs of photocells are fitted.
7. Leading edge of gateleaf. Safety Edges should be fitted to leading edge of the gate. Safety edges prevent the gate closing on a person or vehicle in the event the gate is activated. Safety edges are flexible strips which are fixed to the edge of a gate where there is a risk of a crushing or shearing hazard. If the safety edge is depressed a signal is sent to the power source to stop and back off. Additional safety edges can be mounted to the internal & external motor posts. Please note: A maximum of 400N of crushing force is permitted before gate should start to reserve. For gaps greater than 500mm a maximum crushing force of 1400N is permitted.

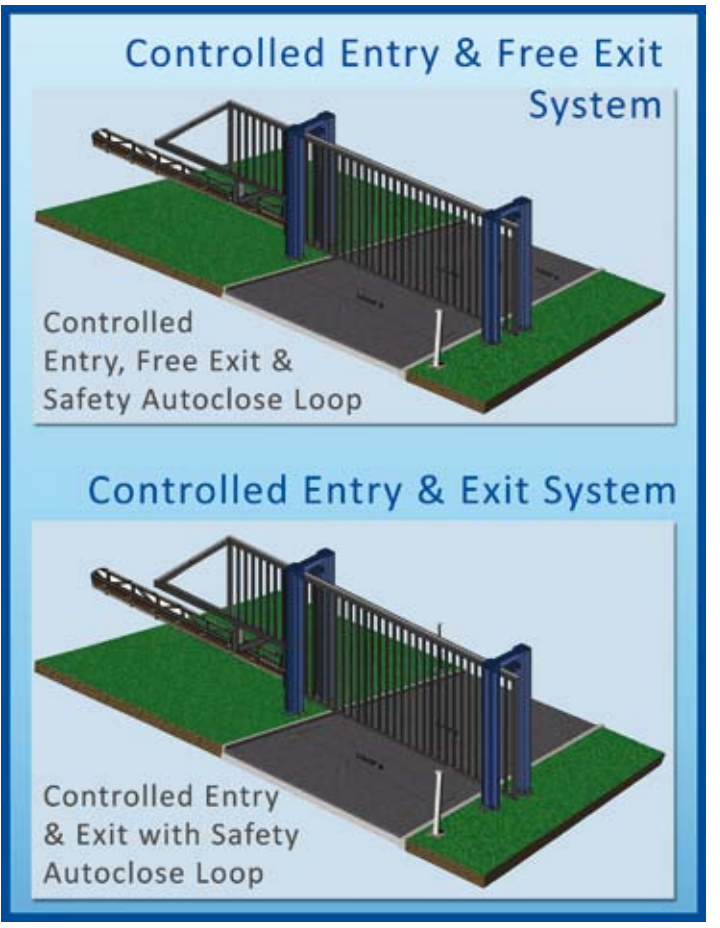
STANDARD SLIDING GATES ARE NOT DESIGNED FOR PEDESTRIAN USE & ALTERNATIVE PEDESTRIAN ACCESS SHOULD ALWAYS BE PROVIDED.

Other applicable BS standards:

- BS EN 13241-1 2003 Industrial, commercial and garage doors and gates. Product standard. Products without fire resistance or smoke control characteristics
- BS EN 12453 Industrial doors and gates; Safety in use of power operated doors - Requirements
- BS EN 12445 Industrial doors and gates; Safety in use of power operated doors - Test Methods
- BS EN 12604 Industrial doors and gates; Mechanical Aspects - Requirement
- BS EN 12605 Industrial doors and gates; Mechanical Aspects - Test Methods
- BS EN 13849 Safety of Machinery - Safety-related parts of control systems. General principles for design



Frontier Pitts Sliding Gates can be interfaced to a wide range of access control including Card Readers, Intercom Systems, Remote VHF Systems and Digital Keypads. The access control readers can be mounted on pedestals which are recommended to be installed a minimum of 3 metres from the sliding gate system.



Standard Car Height Pedestals. Installed with bollards for protection

HGV & Dual Height Pedestals for use by cars & HGVs the road

Sliding Gate Safety:  
For Pedestrian Safety - Safety Photocells  
Safe closure of gate -  
Vehicle Detector Loops & Timer Systems



Safety Photocell - beams of light fitted across the road way to monitor vehicle & pedestrian movement

Safety Vehicle Detector Loops laid in the road surface

## FRONTIER PITTS LTD OFFICES

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