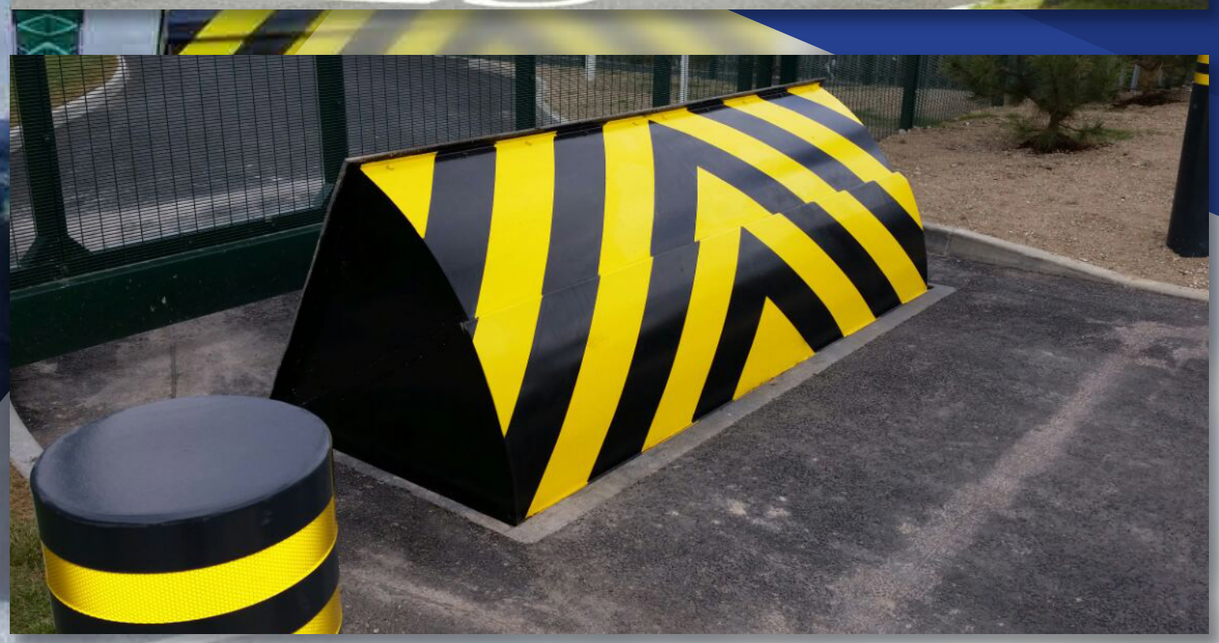
GATES BARRIERS BLOCKERS | BOLLARDS | PEDESTRIAN

FRONTIER PITTS

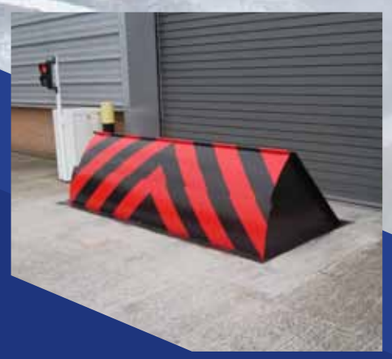


FRONTIER PITTS SECURITY

«BLOCKERS»

BRITISH PERIMETER SECURITY SPECIALISTS

Frontier Pitts Ltd., Crompton House, Crompton Way, Crawley, RH10 9QZ
tel **+44 (0)1293 548301** email **sales@frontierpitts.com** web **www.frontierpitts.com**



BLOCKERS

Frontier Pitts manufacture a large portfolio of Hostile Vehicle Mitigation hydraulically driven Terra Blockers:

Terra Shallow Blocker MkII
IWA 14 7.2t @ 80kph (50mph)

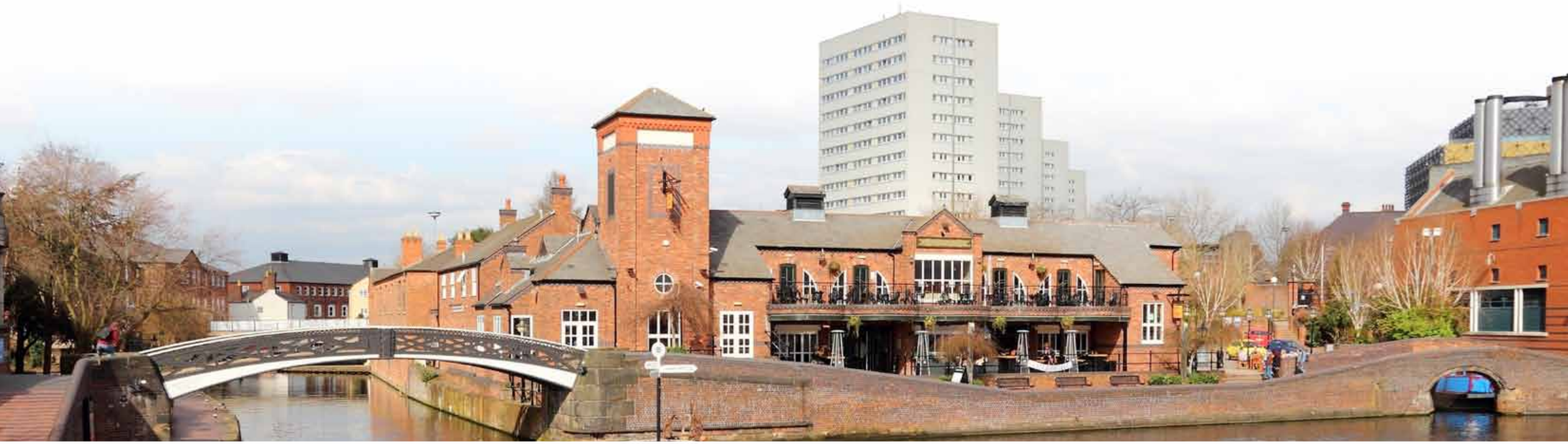
Terra Blocker
PAS 68 7.5t @ 50mph (80kph)

Terra Blocker
PAS 68 7.5t @ 30mph (48kph)

Road Blockers offer high security sites an impact-resistant barrier to Hostile Vehicles and Ram-raiding. Such installations include Government sites, Embassies, Airports and Utility sites.

The Road Blocker Top Plate can be finished with Frontier Pitts Lifetime Paint; an anti-skid resistant treatment which has been fully tested under laboratory conditions for at least 12 months.

"We deliver more than just products from our UK HQ in Crawley, West Sussex"



Birmingham, England

TERRA SHALLOW BLOCKER MK2

The blocker successfully impact tested to the latest IWA 14 specification with 7.2t @ 80kph (50mph), resulting in zero penetration. The Shallow Blocker remained fully functional after impact.

- Shallow Foundation Depths of 300mm - Type B
- Widths up to 4000mm, securing apertures of 5800mm
  Tested dimensions: *width 3000mm, lift height 1000mm*

SBD IWA 14 IMPACT TESTED PSSA Verification Scheme

BENEFITS & FEATURES

- Impact tested to the International IWA 14 with 7.2t @ 80kph (50mph) – resulting in zero penetration
- Shallow blocker, ideal for inner city sites. Foundation type B of only 300mm required
- Designed for ease of installation and maintenance
- Hydraulically operated, three phase supply
- Lifetime Paint; Anti skid resistant coating on top plate
- Instantly reversible, 100% duty rated motor
- Concertina safety skirt to prevent potential trapping areas
- Control cabinet recommended to be installed within 10 metres of unit
- Traffic light system

OPERATING SPEED

- Typical speeds of 4-6 seconds *
- EFO (extra fast operation) in up to 1 second

OPTIONS

- Accumulator or manual hand pump allow a number of operations in power failure mode
- In event of Power Failure options of Fail safe (remain in raised position) or Fail secure (remain in lowered position)
- High Security Cabinet
- Can be interfaced to any access control systems

SAFETY

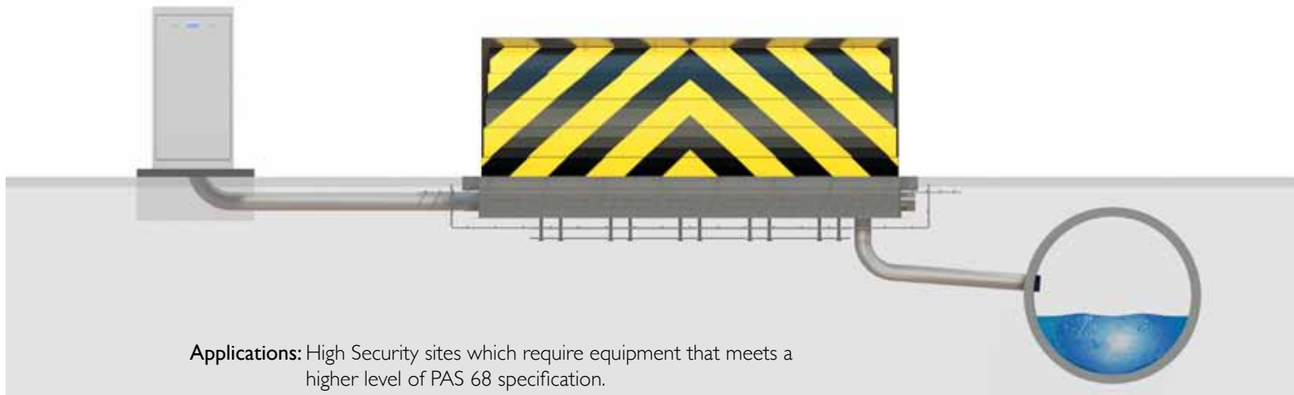
- Vehicle detector loops
- Safety photocell beams

CIVIL REQUIREMENTS

- Shallow depths of 300mm
  (**Note:** Power and control wiring ducts may be required)
- Control Cabinet Foundation
  L:600mm x W:900mm x D:300mm

ELECTRICAL REQUIREMENTS **

- Three Phase Supply

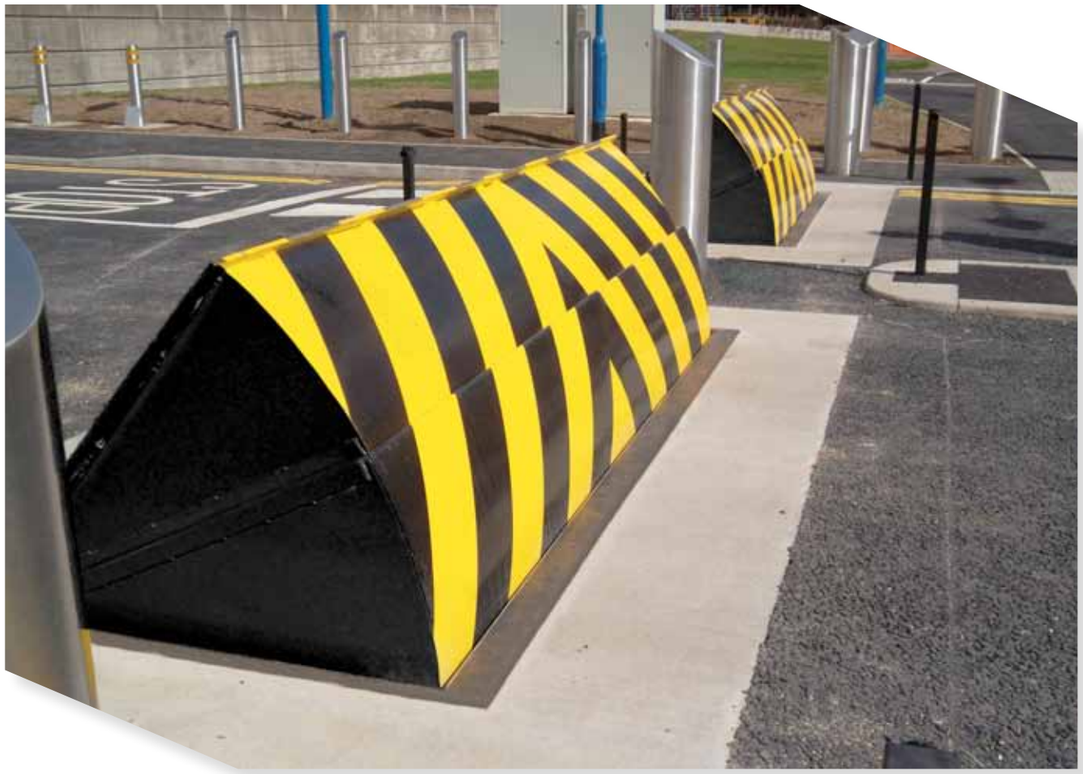


Applications: High Security sites which require equipment that meets a higher level of PAS 68 specification.

* *Depending on configuration*

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

TERRA BLOCKER



The HVM Blocker has been successfully impact tested to PAS 68 with 7.5t @ 30mph resulting in zero penetration, and 7.5t @ 50mph. Widths up to 5000mm, securing apertures of 7400mm.

- PAS 68 Terra Blocker 7.5t @ 30mph V/7500[N2]/48/90:0.0/0.0
  Tested dimensions: *width 3000mm, lift height 810mm*
- PAS 68 Terra Blocker 7.5t @ 50mph V/7500[N3]/80/90:4.0/25.0
  Tested dimensions: *width 2500mm, lift height 1100mm*

SBD PAS 68 IMPACT TESTED PSSA Verification Scheme

DIFFERENT MODELS

- PAS 68 Terra Blocker MkII 7.5t @ 30mph
- Zero Penetration
- V Road Blocker 7500[N2]/48/90:0.0/0.0
  Tested dimensions: *width 3000mm, lift height 810mm*
- PAS 68 Terra Blocker MkII 7.5t @ 50mph
- V Road Blocker 7500[N3]/80/90:4.0/25.0
  Tested dimensions: *width 2500mm, lift height 1100mm*
- K12 L3 Terra Blocker: 6.8t American Truck at 80kph (50mph)
- Zero Penetration
  Tested dimensions: *width 2500mm, lift height 810mm*

BENEFITS & FEATURES

- Successfully impact tested to PAS 68 and K12
- Lifetime Paint; Anti skid resistant coating on top plate
- Designed for ease of installation and maintenance
- Hydraulically operated, three phase supply
- Instantly reversible, 100% duty rated motor
- Control cabinet recommended to be installed within 10 metres of unit
- Traffic light system

OPERATING SPEED

- Typical speeds of 4-6 seconds *
- EFO (extra fast operation) in up to 1 second

OPTIONS

- Accumulator or manual hand pump allow a number of operations in power failure mode
- In event of Power Failure options of Fail safe (remain in raised position) or Fail secure (remain in lowered position)
- High Security Cabinet
- Can be interfaced to any access control systems

SAFETY

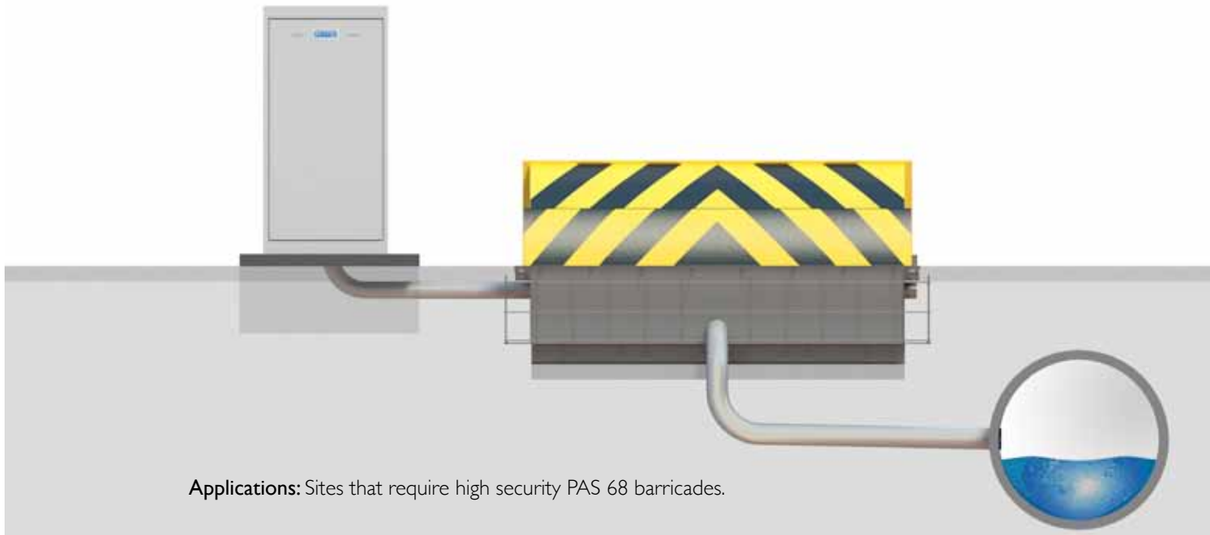
- Vehicle detector loops
- Safety photocell beams

CIVIL REQUIREMENTS

- Based on a 3000mm width blocker
  L:2200mm x W:4000mm x D:935mm
  (**Note:** Power and control wiring ducts required)
- Control Cabinet Foundation
  L:600mm x W:900mm x D:300mm

ELECTRICAL REQUIREMENTS **

- Three Phase Supply

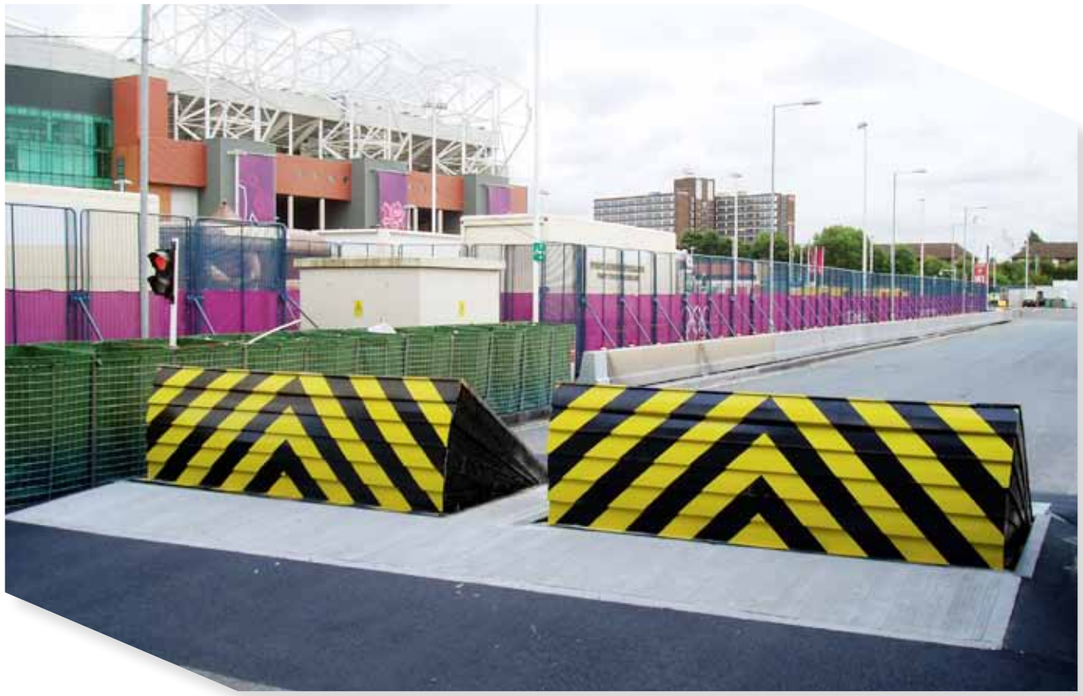


Applications: Sites that require high security PAS 68 barricades.

* *Depending on configuration*

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

TERRA SURFACE MOUNT BLOCKER



The blocker has been successfully impact tested to BSi PAS 68 specification with 7.5t @ 50mph (80kph). On impact the blocker stopped the vehicle within the aperture.

- Surface Mounted Technology – no foundations required.
- Foundation Type Ap
- Widths up to 4000mm, securing apertures of 5800mm
  Tested dimensions: *width 2500mm, lift height 1100mm*

SBD IWA 14 IMPACT TESTED PSSA Verification Scheme

BENEFITS & FEATURES

- Impact tested to the British PAS 68 with 7.5t @ 50mph (80kph)
- Surface Mounted Technology – no foundations required.
- Foundation Type Ap
- Designed for ease of installation and maintenance
- Hydraulically operated, three phase supply
- Lifetime Paint; Anti skid resistant coating on top plate
- Instantly reversible, 100% duty rated motor
- Concertina safety skirt to prevent potential trapping areas
- Control cabinet recommended to be installed within 10 metres of unit
- Traffic light system

OPERATING SPEED

- Typical speeds of 4-6 seconds *

OPTIONS

- Accumulator or manual hand pump allow a number of operations in power failure mode
- In event of Power Failure options of Fail safe (remain in raised position) or Fail secure (remain in lowered position)
- High Security Cabinet
- Can be interfaced to any access control systems

SAFETY

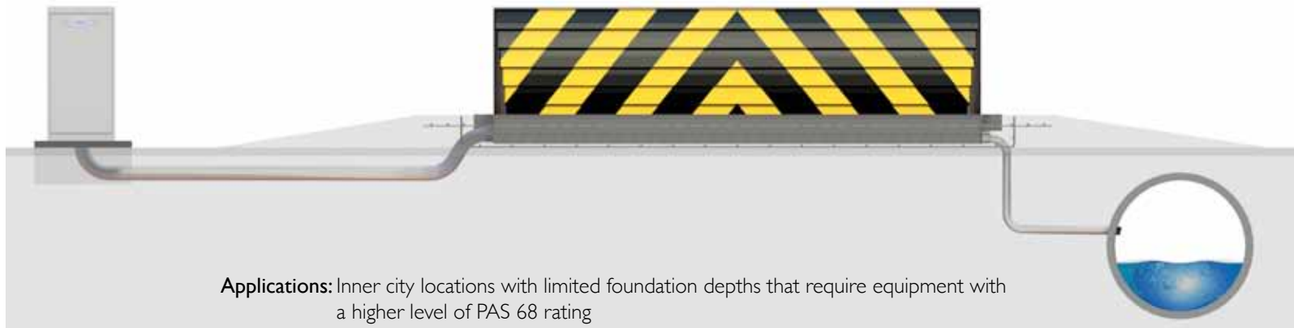
- Vehicle detector loops
- Safety photocell beams

CIVIL REQUIREMENTS

- Minimum Depth of 150mm
  (**Note:** Power and control wiring ducts may be required)
- Control Cabinet Foundation
  L:600mm x W:900mm x D:300mm

ELECTRICAL REQUIREMENTS **

- Three Phase Supply
- EFO (extra fast operation) in up to 1 second



Applications: Inner city locations with limited foundation depths that require equipment with a higher level of PAS 68 rating

* *Depending on configuration*

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