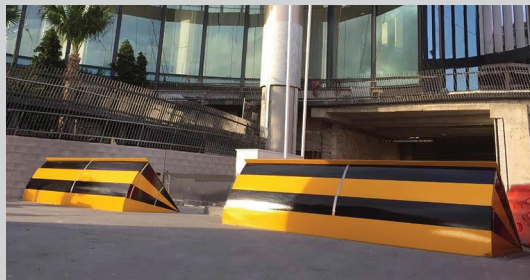
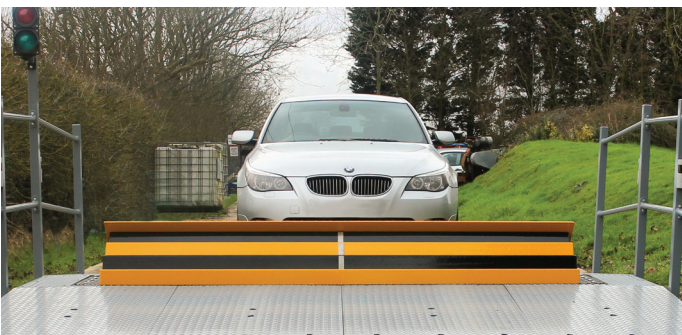


HEALD



PERIMETER SECURITY PRODUCTS

PRODUCT BROCHURE 8



“DESIGNERS, MANUFACTURERS
AND INSTALLERS OF AWARD WINNING
PERIMETER SECURITY PRODUCTS”

COMPANY OVERVIEW 03

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PHOTO CREDIT
Picture on the front cover, page 21 and back cover
- Chapman Brown Photography

COMPANY OVERVIEW

Solutions for a safer world



FOR OVER THREE DECADES HEALD HAS BEEN SECURING SOME OF THE WORLD’S MOST HIGH PROFILE LOCATIONS WITH ADVANCED PROTECTION AGAINST HOSTILE VEHICLE ATTACKS.

We are world class innovators in the field of perimeter security technology and the largest manufacturer of quality security equipment in the UK.

Our range of award-winning, PAS68, K12, IWA and ASTM bollards, roadblockers and barriers play a leading role in the defence of vulnerable properties worldwide from expressive and acquisitive crime.

Our global client base includes military sites, presidential buildings, palaces, embassies, border controls, airports, oil refineries, stadia, banks, shopping centres, government buildings and many more.

We constantly push the boundaries with ground-breaking new designs, tested to the latest British, EU and US security standards, and are renowned for our exemplary in-house manufacturing.

Our products have been recognised by some of the security industry’s leading professional bodies, and we have received accolades from IFSEC Security and Fire Excellence, HSBC Global Connections International Business Awards, The Home Office, ADS Security Innovation, Counter Terror Excellence in Innovation, the Counter Terror Awards and the Security Excellence Awards.



MADE IN
BRITAIN



PSSA
Perimeter Security Suppliers Association

Secured by Design



Official Police Security Initiative

MADE IN
YORKSHIRE

Raptor

Shallow Mount Security



PERFORMANCE RATING ASTM: M50-P1 Zero Penetration (SD-STD2.01 K12) ASTM: C40 P1 Zero Penetration PAS68 Blocker/Bollard V/7500[N3]/80/90:3.3/18.9

RAISED HEIGHT 985 mm

RAPTOR WIDTH 380 mm

FOUNDATION DEPTH Shallow foundation - 500 mm
No pre-casting required or reinforcement of concrete.

NORMAL OPERATING SPEED 4-6 seconds approximately

OPTIONS Manual, electro mechanical or hydraulic operation, emergency fast operation (EFO), LED lighting, Hydra control, trace heating, high security lock out valve and anti-sever burst valves

EFO SPEED 1.5 seconds approximately

FINISH Galvanised and painted. Optional colours available

GB PATENT NUMBER GB Patent Number GB2479722. European Patent Number EP2561140. US Design Patent Number US D715, 174 S. US Patent Number US 8, 979, 419 B2



HEALD’S RAPTOR SECURITY BARRIER COMBINES THE HIGH SECURITY OF A ROADBLOCKER WITH THE FLEXIBILITY OF A SHALLOW MOUNTED BOLLARD.

Tested to both PAS68 and ASTM standards, it not only halted a 7.5 tonne truck travelling at 80 kph (50 mph) but continued to function afterwards. During testing, down force measurements were taken and were found to be extremely low, meaning underlying services and building structures remain protected upon impact.

The Raptor can operate as a standalone unit or as part of an array to secure an opening of any size. Successful crash testing was undertaken on a single unit.

Integrating well with modern architecture while maintaining an imposing presence, it is ideal for sites where high security is essential but where contemporary style and design are also required.

The Raptor is also designed and proven to protect underground utilities upon impact, unlike any other products on the market.

We also have a static option available of this product called the Fixed Raptor, which can be installed independently or as part of an array of fixed or active Raptors.

- RAPTOR
- Zero penetration - maintains standoff distance
 - Unique operational design meaning low energy requirements and reduced operational costs
 - Operated after test - maintains emergency services access and continued protection
 - Strongest in class - best performing product of its kind, ensuring peace of mind
 - Extremely safe operation - no trap or trip hazards
 - High reliability and easy installation - low whole of life cost
 - No wear points mean extended longevity
 - Quiet operation - minimal noise pollution
 - Very low maintenance
 - Designed, manufactured and installed by Heald - offering a turnkey solution
 - Unique design meaning minimal downforce pressures on impact, protecting critical services and data lines



Viper

Shallow Mount Security



PERFORMANCE RATING
PAS68:2010 V/7500[N3]/80/90:0.0/24.6
ASTM 2656-07 M50:P1.

ROADBLOCKER HEIGHT 1050 mm

ROADBLOCKER WIDTH 3000 mm - will secure an opening of up to 5400 mm. Other widths available.

FOUNDATION DEPTH 400 mm

NORMAL RAISE SPEED 6 seconds approximately

OPTIONS Emergency fast operation (EFO), LED lighting, colour options, Hydra control, high security lock out valve and anti-sever burst valves

EFO SPEED 1.5 seconds approximately

HEALD'S VIPER SHALLOW MOUNTED ROADBLOCKER IS AN IMPOSING SECURITY BARRIER WHICH, DUE TO ITS INGENUOUS FOLDING DESIGN, REQUIRES AN EXCAVATION DEPTH OF JUST 400 MM.

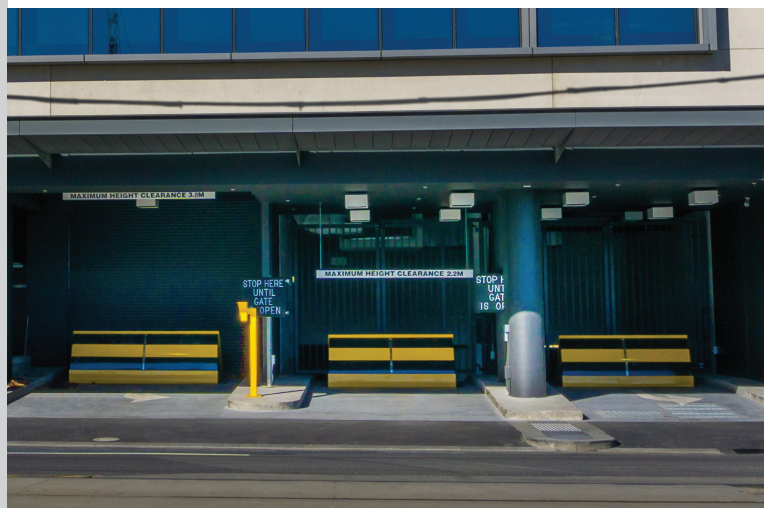
The Viper stands 1050 mm tall when fully raised and comes finished in bright yellow and black stripes as standard for high visibility, presenting a clear deterrent to potential attackers. However, other colours are available as well as an optional LED light strip for greater visibility.

The Viper has been dual tested to PAS68 and ASTM standards to halt a 7.5 tonne truck travelling at a speed of 80 kph (50 mph). The Viper continued to function after the impact.

Due to the Viper's innovative design, it has a protective sacrificial skirt for safety and reliability, this reduces debris collection in the base. The skirt also allows easy access for maintenance when required. The Viper has environmental advantages, with synthetic oil options available.

VIPER

- Zero penetration – maintains maximum stand off distance
- Dual tested to PAS68 and ASTM
- Operated after test – maintains emergency services access and continued protection
- Strongest in class – best performing product of its kind, ensuring peace of mind
- Proven reliability (independent 200,000 cycle test report)
- Easy installation – low whole of life cost
- Safety skirt provided
- Quiet operation – minimal noise pollution
- Unique design ensures easy access for maintenance
- Designed, manufactured and installed by Heald – offering a turnkey solution
- No pre-cast pit required
- Synthetic oil options available



Commander

Deep Mount Security



PERFORMANCE RATING
PAS68: V/30000[N3]/80/90:0.0/6.85 K12.

ROADBLOCKER HEIGHT 1165 mm

ROADBLOCKER WIDTH 4000 mm - will secure an opening of up to 6400 mm. Alternative widths available.

FOUNDATION DEPTH 1500 mm

NORMAL RAISE SPEED 6 seconds approximately

OPTIONS Colour options available, LED front radius lights, Hydra control, lockable inspection cover, emergency fast operation (EFO), high security lock out valve and anti-sever burst valves

EFO SPEED 1.5 seconds approximately



HEALD’S COMMANDER ROADBLOCKER IS THE ULTIMATE IN PERIMETER PROTECTION. IT IS THE WORLD’S ONLY ROADBLOCKER SECURITY BARRIER PAS68 TESTED TO STOP A 30 TONNE TRUCK TRAVELLING AT 80 KPH (50 MPH).

This is officially the highest ever impact energy test successfully undertaken on a roadblocker security barrier, it achieved a zero penetration result and remained fully operational afterwards. The Commander is intended for sites where high profile security is essential.

Standing 1165 mm above the ground and presenting an imposing barrier to unauthorised vehicles, there is simply no alternative if you require the very highest level of security.

Standard operation is via remote push button control; however, the Commander is also available with Heald’s Hydra control and monitoring system which offers unprecedented levels of interaction through a simple, streamlined interface and can also be accessed by mobile phone, tablet or computer. We can also provide other access control options to suit your requirements.

- COMMANDER
- World’s only PAS68 30 tonne tested road blocker
 - Zero penetration – maintains maximum stand off distance
 - Operated after test – maintains emergency services access and continued protection
 - Sacrificial front radius plate design ensures operation and protection of site after impact
 - Strongest in class – best performing product of its kind, ensuring peace of mind
 - High reliability and easy installation – low whole of life cost
 - Quiet operation – minimal noise pollution
 - Designed, manufactured and installed by Heald – offering a turnkey solution
 - Outer box fabrication enables quick and easy installation with no reinforcement of concrete required



PAS68 Roadblocker

Deep Mount Security



PERFORMANCE RATING
880: PAS68: V/7500[N2]/80/90:0/25. Also N3 tested.
1200: PAS68: V/7500(N3)/80/90:0.0/14.3
K12

ROADBLOCKER HEIGHT 880 mm and 1165 mm (dependent on specification)

ROADBLOCKER WIDTH 4000 mm - will secure an opening of up to 6400 mm. Alternative widths available.

FOUNDATION DEPTH 880: 1180 mm or 1200: 1500 mm

NORMAL RAISE SPEED 6 seconds approximately

OPTIONS Colour options available, Hydra control, LED front radius lights, lockable inspection cover, emergency fast operation (EFO), high security lock out valve and anti-sever burst valves

EFO SPEED 1.5 seconds approximately



HEALD’S PAS68 ROADBLOCKER RANGE IS THE PERFECT SOLUTION FOR SECURITY INSTALLATIONS WHERE A HIGH PROFILE DETERRENT IS REQUIRED.

Fully raised, they stand between 880 mm and 1165 mm above the ground and are PAS68 tested to stop a 7.5 tonne truck travelling at 80 kph (50 mph).

Due to Heald’s world leading design and manufacture, all of our roadblocker models continue to function following impact, ensuring ongoing protection.

Standard operation is via remote push button control; however, the PAS68 Roadblockers are also available with Heald’s Hydra control and monitoring system which offers unprecedented levels of interaction through a simple, streamlined interface and can also be accessed by mobile phone, tablet or computer. We can also provide other access control options to suit your requirements.

The PAS68 Roadblocker can also be supplied with an EFO (Emergency Fast Operation) system where required.

PAS68 ROADBLOCKER

- Zero penetration – maintains maximum stand off distance
- Tested to PAS68 and ASTM K12 standards
- Operated after impact – maintains emergency services access and continued protection
- Sacrificial front radius plate design – ensures operation and protection of site after impact
- Strongest in class – best performing product of its kind, giving peace of mind
- High reliability and easy installation – low whole of life cost
- Quiet operation – minimal noise pollution
- Designed, manufactured and installed by Heald – offering a turnkey solution



Anti-Vandal Roadblocker

Access Control Roadblocker



ROADBLOCKER HEIGHT 340 mm – 1200 mm.

ROADBLOCKER WIDTH 2000 mm – 6000 mm

FOUNDATION DEPTH Dependent on height, but typically 600 mm – 1500 mm.

NORMAL RAISE SPEED 2-5 seconds approximately

OPTIONS Large size LED traffic light, Hydra control, emergency fast operation (EFO) and lockable inspection cover to prevent tampering

EFO SPEED 1.5 seconds approximately

FINISH Galvanised then primed and painted black and yellow



HEALD'S ANTI-VANDAL ROADBLOCKER IS AVAILABLE IN A RANGE OF SIZES AND PROVIDES HIGHLY VISIBLE SECURITY FOR ALMOST ANY LOCATION.

From the smallest 340 mm version right up to the 1200 mm model, it can be used for purposes ranging from simple traffic control to securing a perimeter vehicle access point.

Heald's Anti-Vandal Roadblocker is designed to present an imposing security barrier to any would-be attackers.

Standard operation is via remote push button control; however, the Anti-Vandal Roadblocker is also available with Heald's Hydra control and monitoring system which offers unprecedented levels of interaction through a simple, streamlined interface and can also be accessed by mobile phone, tablet or computer. We can also provide other access control options to suit your requirements.

The Anti-Vandal Roadblocker can be supplied with an EFO (Emergency Fast Operation) system where required.

ANTI-VANDAL ROADBLOCKER

- Access control solution
- A range of sizes available
- Quiet operation – minimal noise pollution
- Steel wedge reinforced throughout making an extremely heavy duty product
- Fast installation
- EFO available
- Galvanised, primed and painted black and yellow
- Designed, manufactured and installed by Heald – offering a turnkey solution



Mini Viper

Access Control Roadblocker/
Surface Mount Security



ROADBLOCKER HEIGHT 340 mm and 450 mm

ROADBLOCKER WIDTH Various widths available

FOUNDATION DEPTH Surface mounted or flush mounted to the road surface requiring an excavation depth 110 mm (flush mount).

NORMAL OPERATING SPEED 2-3 seconds approximately

OPTIONS Large size LED traffic light, photocells, Hydra control, emergency fast operation (EFO), vehicle ramps and handrails

FINISH Galvanised then primed and painted black and yellow. Alternative colours available on request.



THE MINI VIPER IS A SURFACE MOUNT, TRAFFIC CONTROL SYSTEM, WHICH OFFERS A FLEXIBLE SECURITY SOLUTION FOR LOCATIONS WHERE EXCAVATION IS NOT POSSIBLE SUCH AS AN UNDERGROUND CAR-PARK.

The product is also ideal for temporary installations in areas where a permanent fixture is not required, for example, temporary events.

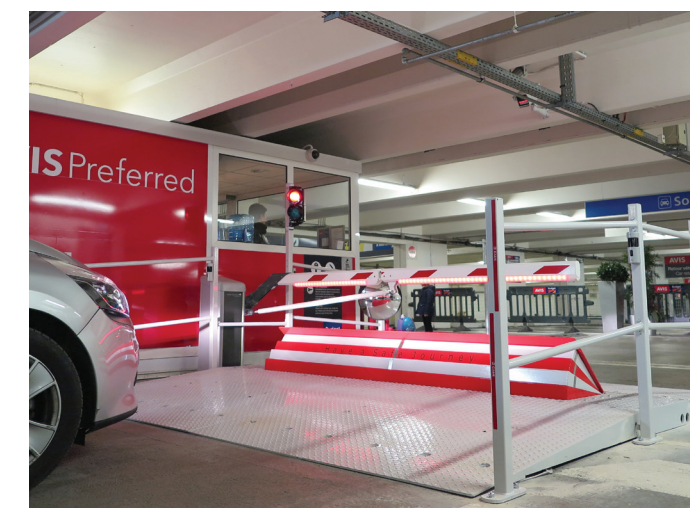
Designed, manufactured and installed by Heald, the Mini Viper is an innovative roadblocker, presenting high reliability and easy installation. The product can be bolted directly to the ground's surface.

The Mini Viper's standard blocking element stands at 340 mm or 450 mm when raised, however alternative heights are available. The product can be used for many purposes, ranging from traffic control to acting as an imposing security barrier. Custom colour options are available to ensure full integration with site architecture and surroundings.

Standard operation is via remote push button control; however, the Mini Viper is also available with Heald's Hydra control and monitoring system which offers unprecedented levels of interaction. We can also provide other access control options to suit your requirements.

MINI VIPER

- Surface mount blocker
- Access control solution
- A range of sizes available
- Supplied with hand pump
- Quiet operation – minimal noise pollution
- Fast installation
- Galvanised, primed and painted black and yellow
- Available with ramps and railings
- Designed, manufactured and installed by Heald – offering a turnkey solution



Picture Courtesy of Digi

Hydraulic Matador

HT2 Range
Surface Mount/Shallow
Mount Security



PERFORMANCE RATING
IWA 14-1: 2013 Bollard V/7200[N2A]/64/90:0.1

BOLLARD HEIGHT 1140 mm

OPENING APERTURE Dependent on model

BASE DIMENSIONS Dependent on number of bollards required

FOUNDATION DEPTH Surface mounted (110 mm if recessed)

NORMAL OPERATING SPEED 5-6 seconds approximately

OPTIONS Architectural paving system, specialist cover / base plate options, trace heating, battery backup, Hydra control and LED lighting and emergency fast operation (EFO)

GB PATENT GB Patent Application Number GB1214486.1
PCT Patent Application Number PCT/GB2012/00082



HEALD'S SURFACE MOUNTED, SLIDING BOLLARD SYSTEM HAS REVOLUTIONISED THE PERIMETER SECURITY INDUSTRY.

Based on the award-winning HT1-Matador, it is the only surface mounted sliding bollard system available to be IWA-14 tested to halt a 7.2 tonne truck travelling at 64 kph (40 mph). Not only did the Matador arrest the test vehicle with a zero penetration rating, it continued to function following the impact with no repairs. The Matador was also awarded the Perimeter Protection Award at the Counter Terror Awards 2018.

The Matador can be installed in locations where even a shallow mount is impossible giving it a huge advantage over more traditional security barriers. It is simply bolted (to a suitable base), making it ideal for short term or temporary projects as well as permanent ones where excavation is impractical.

It can also be installed flush with the surface, requiring an excavation of just 110 mm. The design allows for constant pedestrian access, even when closed. It features a completely flat surface, meaning no trip or trap hazards, which makes it extremely safe. All moving parts are visible at all times, minimising the chance of accidental damage.

HYDRAULIC MATADOR

- Unique design - Patent Protected
- Available as one or two moving bollard systems with two fixed bollards
- Available with a range of stylish covers
- Architectural paving system available to help the Matador blend in with historic or modern surroundings
- LED lighting options which offer intelligent operation and visual instruction for users
- Extremely safe in operation- no pinch points or trap hazards
- Anti-slip top coating for pedestrian safety
- Special design to prevent ingress of dirt or debris
- Additional modular fixed bollards available to secure wider openings
- Zero penetration – maintains maximum stand off distance
- Operated after crash test – maintains emergency services access and continued protection
- Strongest in class – best performing product of it's kind, giving peace of mind
- High reliability and easy installation – low whole of life cost
- Quiet operation – minimal noise pollution
- Designed, manufactured and installed by Heald – offering a turnkey solution
- Multi-award winning product

Manual Matador

HT2 and HT3 Range
Surface Mount/Shallow
Mount Security



PERFORMANCE RATING
HT2: IWA 14-1: 2013 Bollard V/7200[N2A]/64/90:0.1
HT3: IWA 14-1:2013 Bollard V/7200[N3C]/64/90:1.3

BOLLARD HEIGHT 1140 mm

OPENING APERTURE Dependent on model

BASE DIMENSIONS Dependent on number of bollards required

FOUNDATION DEPTH Surface mounted (recessed options available)

NORMAL MOVEMENT SPEED 5-6 seconds approximately

OPTIONS Architectural paving system and specialist cover options

GB PATENT GB Patent Application Number GB1214486.1
PCT Patent Application Number PCT/GB2012/00082



BASED ON OUR AUTOMATIC SLIDING BOLLARD, WE ALSO SUPPLY A MANUAL MATADOR RANGE, BUILT TO THE SAME HIGH STANDARDS.

The Manual Matador range is a bollard system which can consist of either one manual moving bollard, two manual moving bollards or four manual moving bollards, depending on your specifications.

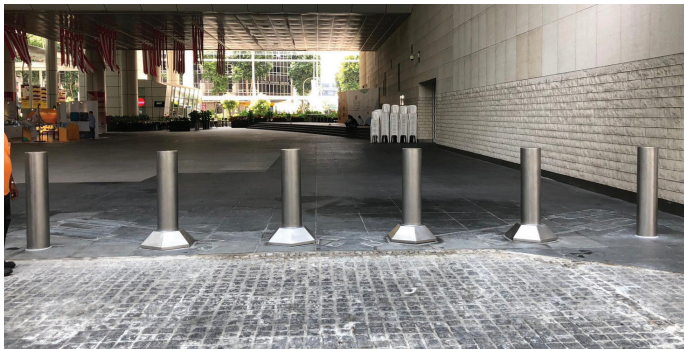
The Manual Matador 3 is built for areas which only require a small opening, whereas our Manual Matador 6 is suitable for a wide opening for large vehicles, or to accommodate tight turning circles. As well as allowing vehicular access, the Matador allows constant pedestrian access, even when closed.

The Manual Matador is available as part of both our HT2 and HT3 range. The HT3 Manual Matador 4 and 6 is supplied in two sections, bolted in the middle. This allows for easy handling procedures, shipping and also any road camber adjustments.

Our Manual Matador is ideal for locations where no power supply is available and is easily operated. This means that our Manual Matador requires no large cabinets to house electronic controls.

MANUAL MATADOR

- Available with a range of stylish covers
- Available as part of our HT2 and HT3 range
- Architectural paving system available to help the Matador blend in with historic or modern surroundings
- Extremely safe and easy operation
- Available with either three, four or six bollards
- Cost effective solution
- Built to match the same standards and specifications as our automated Matador range
- Surface mounted – and low cost installation
- Anti-slip top coating for pedestrian safety
- No requirement for a large cabinet
- High reliability and easy installation – low whole of life cost
- Suitable for both long term and temporary events
- Designed, manufactured and installed by Heald



EM Matador

HT2 and HT3 Range

Surface Mount/Shallow
Mount Security



PERFORMANCE RATING

HT2: IWA 14-1: 2013 Bollard V/7200[N2A]/64/90:0.1

HT3: IWA 14-1: 2013 Bollard V/7200[N3C]/64/90:1.3

BOLLARD HEIGHT 1140 mm

OPENING APERTURE Dependent on model

BASE DIMENSIONS Dependent on number of bollards required

FOUNDATION DEPTH Surface mounted (160 mm if recessed)

NORMAL OPERATING SPEED 5-6 seconds approximately

OPTIONS Architectural paving system, specialist cover options, trace heating, Hydra control and LED lighting

GB PATENT GB Patent Application Number GB1214486.1

PCT Patent Application Number PCT/GB2012/00082



THE EM MATADOR IS PART OF OUR NEW ELECTRO MECHANICAL RANGE WHICH HAS MANY ENVIRONMENTAL ADVANTAGES.

The HT3-EM Matador halted an 18 tonner N3C vehicle travelling at 64 kph (40 mph). After impact, the HT3-EM Matador continued to function, offering on-going protection and ensuring emergency services have continued access.

One of the benefits of the EM Matador is that it requires approximately 80% less electricity to operate compared to standard hydraulic units. It only requires a small cabinet to house controls, reducing the carbon and space footprint.

There is no need for hydraulic runs or large power units as the Electro Mechanical Matador requires just one single phase 13 AMP supply to run, therefore the EM Matador has lower energy costs. The motors are only 0.37 KW, IP69 rated and are housed within the Matador unit itself.

The Electro Mechanical Matador can also operate from a generator where no power supply is available or for temporary events management, making it the ideal rated solution for temporary or permanent installs.

The HT3-EM Matador 4 is supplied in two sections, bolted in the middle. This allows for easy handling procedures, shipping and also any road camber adjustments.

EM MATADOR

- Successfully IWA crash tested against an 18 tonner N3C vehicle travelling at 64 kph (40 mph)
- Available as part of our HT2 and HT3 range
- Over 80% less electricity to operate compared to other similar systems of this type
- Designed and proven to protect underground utilities on impact
- Architectural paving system available to enable the Matador to blend in with historic or modern surroundings
- Different configurations available
- Supplied in two sections bolted in the middle (HT3-EM Matador 4)
- Innovative drive system requires no central cylinder
- No oil used: zero chance of oil spillage
- No need for a large cabinet to house controls
- 100% duty cycle
- Quiet operation – minimal noise pollution
- The EM Matador is the ideal solution for temporary events due to its ability to run off a generator



Evo Bollard

Automated/Manual Bollard



PERFORMANCE RATING
IWA14-1:2013 Bollard V/7200[N2A]/64/90:1.3

BOLLARD HEIGHT 1000 mm

BOLLARD DIAMETER 273 mm

FOUNDATION DEPTH 1100 mm

NORMAL RAISE SPEED 3-4 seconds approximately

OPTIONS LED lighting options, battery back-up generator, Hydra control, architectural paving system and specialist cover options

FINISH Galvanised with Grade 304 stainless steel covers. Optional addition: special ultra hard wearing enamel (black finish)

GB PATENT GB Patent Application Number GB1514970.1
International Patent Application Number PCT/GB2016/000140



THE UNIQUE DESIGN OF THE EVO BOLLARD MEANS IT CAN BE INSTALLED AT A DEPTH ONLY SLIGHTLY GREATER THAN THE HEIGHT OF THE ACTUAL BOLLARD ITSELF WITH NO LOSS OF PROTECTION.

The Evo bollard is an electro mechanical, automated bollard. However, it can be operated manually where no power supply is available. The sleek design features no trip or trap hazards, making it extremely safe for members of the public.

The 1 metre rising bollard requires an excavation depth of just 1100 mm but is strong enough to stop a 7.2 tonne truck travelling at 64 kph (40 mph). The EVO Bollard achieved this in its IWA crash test and carried on operating afterwards.

Unusually, there is no central hydraulic cylinder inside the rising bollard, contributing to its strength and durability. It is easily operated by a variety of methods including electro mechanical / manual / battery drill. The Electro Mechanical Evo Bollard uses over 60% less electricity to operate compared to a standard hydraulic system.

EVO BOLLARD

- Low penetration – maintains maximum stand off distance
- Tested as a single unit
- Operated after impact – maintains emergency services access and continued protection
- Strongest in class – best performing product of its kind, giving peace of mind
- Base plate options to accommodate stone or block setts to blend with historic or contemporary architecture
- High reliability and easy installation – low whole of life cost
- Quiet operation – minimal noise pollution
- Unique design meaning a range of authentic cover options available
- Designed, manufactured and installed by Heald – offering a turnkey solution



Mantis 64 & 80

Shallow Mount Security



PERFORMANCE RATING
Mantis 64: PAS68:2013 Fixed Bollard V/7500(N2)/64/90:0.0/0.0
Mantis 80: IWA14-1-V/7200(N3C)/80/90:7.5
Mantis Array: IWA 14-1: 2013 Bollard V/7200[N2A]/80/90:3.5

BOLLARD HEIGHT 1100 mm

BOLLARD WIDTH
Mantis 64: 200 mm (excluding covers)
Mantis 80: 190 mm (excluding covers)

FOUNDATION DEPTH
Mantis 64: 250 mm
Mantis 80: 300 mm

OPTIONS LED lighting options available, Grade 316 cover can be supplied at additional cost. Alternative colours and patterns are available.

FINISH Primed with Grade 304 stainless steel cover (if galvanised/painted finish is required this would be charged in addition)



THE MANTIS 80 WAS ONE OF THE FIRST PRODUCTS TO BE TESTED USING THE NEW IWA14-1 INTERNATIONAL STANDARD. THE MANTIS 80 HALTED A 7.2 TONNE (18 TONNER) TRUCK TRAVELLING AT A SPEED OF 80 KPH.

Heald tested the Mantis at MIRA's testing grounds, where it received a rating of PAS68:2013 Fixed Bollard V/7500(N2)/64/90:0.0/0.0. This means that the Mantis 64 arrested a 7.5 tonne truck from a speed of 64 kph with zero penetration and zero dispersion. In the impact the structure of the bollard remained intact, ensuring continued protection against further attack.

The Mantis 64 offers a static solution with a true excavation depth of only 250 mm; the Mantis 80 and array require only 300 mm. No pre-casting of the pit is required, nor is any additional rebar. Our fitters can excavate the pit, lower in the Mantis bollard unit and infill with just over half a cubic metre of concrete in less than an hour.

As the Mantis 64 and 80 were tested as standalone bollards they can be installed individually or as part of an array.

MANTIS 64 & 80

- Shallow mounted – means avoidance of services and low cost installation
- Crash tested to stop a 7.5 tonne truck travelling at 80 kph (50 mph) for maximum security
- Low cost installation
- Sleek and stylish with stainless steel covers to suit any location
- LED lights available
- Stand alone bollard or part of an array



Fixed Matador

Surface Mount/Shallow
Mount Security



PERFORMANCE RATING
Fixed Matador test: PAS68 V/7500(N2)/48/45:0.0/0.0
Automated Matador test: IWA 14-1: 2013 Bollard V/7200[N2A]/64/90:0.1

BOLLARD HEIGHT 1140 mm

BOLLARD DIAMETER 220 mm (without cover)

BASE DIMENSIONS 4020 mm length x 2140 mm depth x 125 mm height
(3 bollards)

FOUNDATION DEPTH Surface mounted or installed flush with the road surface
with a 110 mm excavation.

OPTIONS Grade 316 cover can be supplied at additional cost if required

FINISH Primed with Grade 304 stainless steel cover



HEALD'S FIXED MATADOR SURFACE MOUNTED
STATIC BOLLARD SYSTEM OFFERS THE
CONVENIENCE AND SECURITY OF OUR AUTOMATIC
MATADOR, BUT IN A SIMPLE STATIC PACKAGE.

It has been PAS68 tested to halt a 7.5 tonne truck travelling
at 48 kph (30 mph) and offers a number of advantages over
more traditionally mounted systems.

The Fixed Matador is simply bolted to the road, requiring no
excavation whatsoever. Alternatively, it can be installed flush
with the road surface with a 110 mm excavation.

The Fixed Matador is available as a unit with either three
or four static bollards mounted on a baseplate but can be
combined with our Modular Matador Extension Plates to add
as many additional bollards as required.

The bollard configuration allows constant pedestrian access
and its stylish stainless steel design makes it perfect for
locations where integration with modern architecture is
essential. Other cover types available along with base plates
to accommodate stone or block setts to blend with historic
architecture.

FIXED MATADOR

- Zero penetration – maintains maximum standoff distance
- Surface and shallow mounted – low cost installation
- PAS68 tested to halt a 7.5 tonne truck travelling
at 48 kph (30 mph)
- High reliability and easy installation – low whole of life cost
- Ideal for short term or temporary installations
- Stylish stainless steel design
- Automated option available



Sparta 48 & 80

Crash Tested Security



PERFORMANCE RATING

48: PAS68:7500[N2]48/90:0.0/0.0
80: PAS68:7500(N3)80/90:10.6/11.1

BOLLARD HEIGHT 1000 mm approximately

BOLLARD DIAMETER

48: 219 mm
80: 273 mm

FOUNDATION DEPTH 750 mm

FINISH OPTIONS

Bollard mild steel only
Bollard with galvanised & painted finish
Bollard (mild steel & painted) with Grade 304 stainless steel cover
(Grade 316 cover can be supplied at additional cost if required)
LED Lighting



HEALD'S SPARTA STATIC BOLLARD SERIES OFFERS SIMPLE AND AFFORDABLE PAS68 TESTED SECURITY SUITABLE FOR A WIDE RANGE OF LOCATIONS.

Available in two security levels, the Sparta 48 has been crash tested to halt a 7.5 tonne truck travelling at 48 kph (30 mph), while the Sparta 80 halted a 7.5 tonne truck at 80 kph (50 mph).

Both versions can be used as a standalone units or as part of an array to protect an area of virtually unlimited size. A Sparta array can be arranged around a corner, in an arc or even on a slope where required.

The Sparta series is available with stylish stainless steel covers to aid integration with modern architecture.

It requires a deeper installation than our surface mounted Matador or shallow mounted Mantis bollards, but still offers effective and efficient perimeter security protection.

SPARTA 48 & 80

- Sparta 80 will halt 7.5 tonne truck travelling at 80 kph (50 mph)
- Sparta 48 has been crash tested to halt a 7.5 tonne truck travelling at 48 kph (30 mph)
- Affordable crash tested bollard
- Stylish stainless steel covers
- Fast installation
- Standalone bollard or part of an array
- Deep mount bollard



Crash Tested Bollard

Automated Bollard



PERFORMANCE RATING
US K8 6800/64 (640 mm)

BOLLARD HEIGHT 640 mm or 800 mm

BOLLARD DIAMETER 220 mm

FOUNDATION DEPTH
640 mm: 1100 mm
800 mm: 1250 mm

NORMAL OPERATING SPEED 3-4 seconds approximately

OPTIONS LED lighting options available which offer intelligent operation and visual instruction for users, Hydra control and emergency fast operation (EFO)

EFO SPEED 1.5 seconds approximately

FINISH Galvanised, then primed and painted black with a red reflective band. Alternative finishes available.



HEALD'S CRASH TESTED AUTOMATIC BOLLARDS ARE IDEAL FOR LOCATIONS WHERE A MORE ARCHITECTURALLY SENSITIVE SECURITY SOLUTION IS REQUIRED.

Rising to a height of either 640 mm or 800 mm, the Crash Tested Bollard succeeded in halting an 6.8 tonne truck travelling at 64 kph (40 mph) in the US K8 impact test.

Our Crash Tested Bollards are available in a range of colours and finishes to integrate with any environment, as well as with reflective strips for high visibility.

Each bollard is a separate unit so they can be used to secure an opening of virtually any size. They can also be combined with static bollards such as our Sparta range to secure an entire perimeter.

Raised and lowered by remote push button control, they are also available with Heald's Hydra control and monitoring system. Our Crash Tested Bollards are installed as an array of single units. Other access control options are also available.

CRASH TESTED BOLLARD

- Crash tested to stop an 6.8 tonne truck travelling at 64 kph (40 mph) in the US K8 impact test
- A range of colours and finishes to integrate with any environment
- Will secure an opening of virtually any size
- Reflective strips for high visibility
- Quiet operation – minimal noise pollution
- Standalone bollard or part of an array



Hydra

Security Remote Control and Monitoring System



HEALD'S HYDRA IS A REMOTE CONTROL AND MONITORING SYSTEM, DESIGNED TO SIMPLIFY AND STREAMLINE INTERACTION WITH AUTOMATED ROADBLOCKERS AND BOLLARDS, WHILST ADDING MORE REMOTE FUNCTIONALITY.

The Hydra is available as an option with any of Heald's automated products.

The Hydra allows access via a range of devices including

tablet, desktop and laptop PCs and even mobile phones via SMS. This opens up a range of possibilities for both monitoring and control.

The status of a blocker or bollard can be checked simply by texting the Hydra, which will reply with a status update SMS. Blockers and bollards can also be opened and closed by sending an SMS. The Hydra can be set to text regular updates to a user's phone, or to text only when an issue is detected. This means that notification of a problem can be

instantaneous, anywhere in the world with a mobile phone signal.

By using a tablet PC or computer connected to the Hydra via ethernet or data bus (the Hydra can use either a cabled or wireless connection) approved users can access detailed status information instantly. The Hydra can also control blockers and bollards via a tablet or PC, providing an alternative to push button consoles.

If push button control is the preferred option, then dedicated status screens can be built into the console, ensuring that users are always aware of blocker or bollard status.

As well as allowing for more interaction, the Hydra is also capable of controlling arrays of multiple blockers or bollards intelligently. For example, if in an array of six Raptors a single unit is damaged or develops a fault, not only will the Hydra notify users via their chosen method, it will also decide whether the array is still usable; so, if the damaged unit is one of the end blockers, the array will continue to function.

Available with Hydra is Heald's fob system, which is an intelligent access system.

The fob control system allows automatic entry to authorised personnel via the use of digitally encoded key fobs. The accompanying software suite logs all access attempts and records the date, time and users that have attempted to enter the relevant access points.

HYDRA

- Intelligent remote control and monitoring system gives unprecedented levels of interaction
- Interactive computer display – ideal for secure command and control room/centre installation
- Unique system protocol – highest level of electronic security protection
- Access is only granted if approved by Hydra – taking high security to the next level
- Allows users to control and monitor an array of HVM systems
- Built using the very latest electronic hardware and bespoke software – keeping Hydra one step ahead
- Hydra is incredibly versatile – it can be used by a single user or a global infrastructure
- Highly secure, streamlined interface – allows authorised users to securely operate multiple entrance points
- It is available as an option with any Heald automated product



Heald Fob Access Control System Key Fob

Barriers

Traffic Control and Security

ARM BARRIERS

HEALD'S RANGE OF SECURITY BARRIERS ARE DESIGNED FOR USE IN AREAS SUCH AS CAR PARKS, WHERE TRAFFIC CONTROL IS REQUIRED. THEY ARE AVAILABLE IN THREE DIFFERENT STYLES: FULLY AUTOMATIC, MANUAL AND STEEL ROLLER BARRIERS.

Automatic arm barriers block the road for approaching vehicles, and can be raised either via a remote push button or in conjunction with a variety of entry systems such as time clock, proximity card or key pad. The heavy duty version is suitable for high traffic volumes.

The boom is manufactured from an aluminium rectangular section and finished in white with red reflective stickers as standard. The barrier is moved by a geared motor drive unit via a control panel including overload protection, a smart relay and an inverter. It features adjustable limit switches for accurate positioning of the boom.

The barrier moves through 90° to give a vertical open position, and can be left or right opening. It can be operated via a manual hand-wind in the event of power failure.

MANUAL BARRIERS

Our manual security barriers open easily on sealed bearings with either a raising or horizontal swinging motion depending on site requirements, as well as a counterbalance to ensure easy operation. Barriers are lockable in both the open and closed positions and their unique self supporting carriage design means that there is no requirement for a catch post, though one is available on request.

Heald's raising and swinging manual arm barriers are all manufactured from heavy duty steel and aluminium. Aluminium models are available in lengths of 3 - 8 metres for the raising barrier and 3 - 9 metres for the swing barrier. A heavy duty steel version is available on both models between 3 - 6 metres. All models are supplied with a quality padlock and are available with bottom skirts for added security.

STEEL ROLLER BARRIER

Heald's Steel Roller Security Barrier presents a highly visible deterrent to vehicles and offers even higher level of security than our swinging or raising manual barriers.

It is designed for use in areas such as car parks, where manually operated traffic control is required, and slides easily along sealed bearings for easy and simple operation.

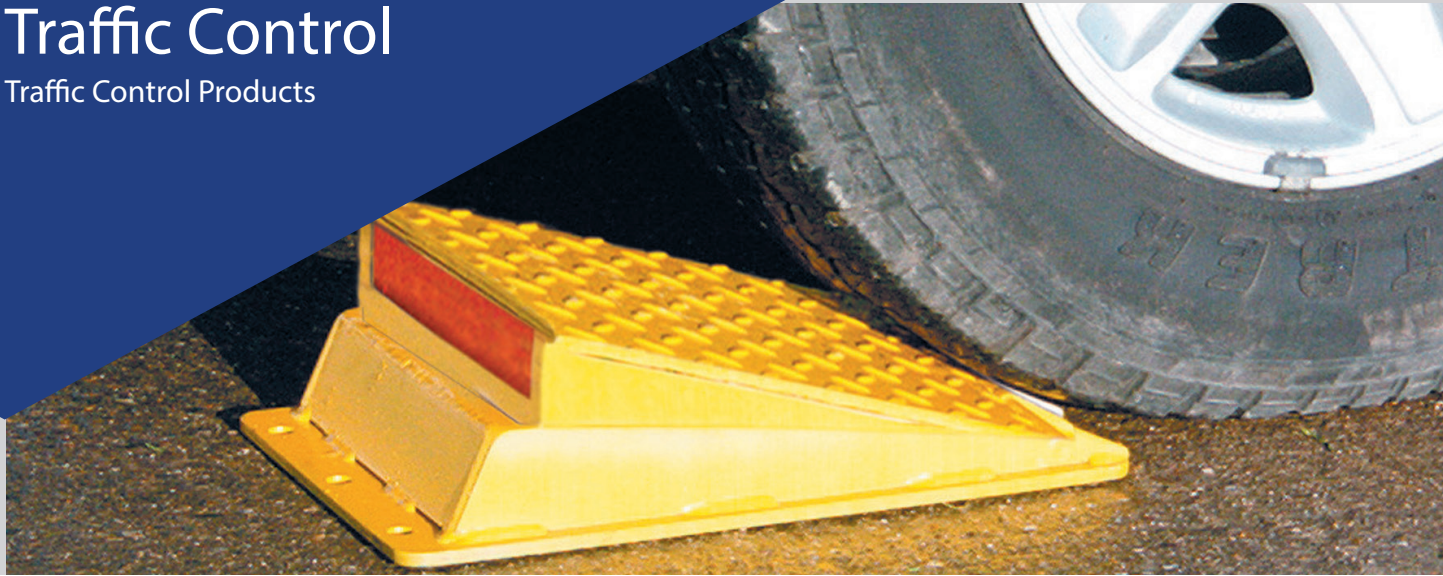
The steel roller security barrier offers robust, heavy duty steel construction designed to withstand many years of use and is available with hot dip galvanising where required.

It is installed into a concrete base and comes supplied with an integrated locking mechanism that can be secured in either the closed or open position.



Traffic Control

Traffic Control Products



FLOW PLATES

Designed for strength and durability, they encourage one way traffic flow and help prevent unauthorised entry or exit, enabling a constant and controlled traffic flow.



SURFACE MOUNTED FLOW PLATE

The surface mounted flow plate is particularly suitable for areas where excavation is impossible or undesirable such as multi storey car parks, while our shallow mount plates feature a unique replaceable top flap for easy maintenance.

RECESSED TRAFFIC FLOW PLATE

Our Traffic Flow Plates have been designed to withstand continuous use and can be used by most types of vehicle including HGVs. They feature heavy duty steel construction with internal rubber buffers to reduce noise.



HEIGHT RESTRICTOR

Heald's fixed or swinging Height Restrictors are designed for use in areas where vehicle height is restricted, such as underground car parks, and offer a highly visible warning to high vehicles. Our fixed model is ideal for sites where a permanent height restriction is in place, and our swinging height restrictor is intended for sites where high sided vehicles – for example refuse lorries or delivery vans – may occasionally need access.

TECHNICAL SPECIFICATIONS

- RECESSED TRAFFIC FLOW PLATE RAISED HEIGHT
110 mm
- RECESSED TRAFFIC FLOW PLATE EXTERNAL DIMENSIONS
250 mm wide x 250 mm long
- SURFACE MOUNT FLOW PLATE RAISED HEIGHT
110 mm
- SURFACE MOUNT FLOW PLATE EXTERNAL DIMENSIONS
255 mm wide x 430 mm long
- HEIGHT RESTRICTOR HEIGHT
2000 mm (other heights available).
- HEIGHT RESTRICTOR FOUNDATION DEPTH
Surface mount (option of fitting into concrete).

Bollards

Traffic Control

HEALD'S RANGE OF TRAFFIC CONTROL PRODUCTS ARE WIDELY USED AT ACCESS CONTROL POINTS AND AT PERIMETER BOUNDARIES TO EFFECTIVELY CONTROL TRAFFIC.

LIFT ASSIST BOLLARD

The heavy duty lift assist bollard is an ideal alternative to the automated bollard where manual operation is required, or for sites where power to location is not available.

Laying flush to the road surface when at rest, the bollard raises to a height of 640 mm, 800 mm, or 1000 mm at full extension, providing a formidable barrier against unauthorised entry or exit.

REMOVABLE BOLLARD

Removable bollards slide into the uniquely designed base plate, eliminating the need for any excavation when fitting. An integral locking system secures it in place, thus presenting a solid barrier against unauthorised vehicle entry.

FOLD DOWN BOLLARD

Designed to provide an efficient and economical defence against unauthorised use. The fold down bollard is sturdy, durable and easy to operate. It provides an ideal option for all round site protection. Fitted with an integral lock, the fold down bollard is easy to install and will take the weight of vehicles in the lowered position.

TELESCOPIC BOLLARD WITH INTEGRAL LOCK

The telescopic security post has a ten pin anti-drill push button lock housed within the internal sleeve, thus eliminating the need for separate padlocks. The heavy duty design with stainless steel lifting handle, lock cylinder and lock cover is available galvanised as standard with the option of powder coating in a range of RAL colours.



“WORLD SNOOKER WERE DELIGHTED WITH THE INSTALLATION OF THE MATADOR AND WE WERE ALSO IMPRESSED WITH THE EXCELLENT SERVICE WE RECEIVED FROM HEALD.”

Nigel Oldfield, Operations Director for World Snooker Ltd.

“THE ENTIRE HEALD TEAM ARE VERY PROFESSIONAL. WE HAD FULL TECHNICAL SUPPORT AND WE WERE VERY PLEASED WITH THEIR RESPONSES TO OUR QUERIES AS WELL AS WITH THEIR RESPONSE TIME. THE PRODUCT ITSELF IS MADE OF VERY HIGH QUALITY MATERIALS AND IT HAS BEEN FUNCTIONING WITHOUT ANY PROBLEMS SINCE ITS INSTALLATION IN MARCH 2016.”

Erina Caramondani, General Manager of Caramondani Bros Public Company Ltd.

“THE HEALD TEAM ARE GREAT TO WORK WITH. THEY ARE INTERESTED IN SERVING THE CUSTOMERS AND WORKING WITH THEIR INTEGRATORS TO PROVIDE GREAT SOLUTIONS TO PROBLEMS.”

David Wachs, President of Concentric Security.

“WORKING WITH HEALD LTD TO IMPLEMENT A ROBUST SECURITY SYSTEM ALLOWED US TO BRING PEACE OF MIND AND DELIVER A WORLD CLASS EVENT.”

Michael Crofts, Director of Business Strategy and Regulation at Sheffield City Council.



"OUR PERIMETER SECURITY PRODUCTS ARE ENGRAINED IN THE FUNDAMENTAL PRINCIPLES OF EFFECTIVE AND EFFICIENT HOSTILE VEHICLE MITIGATION AND ARE DESIGNED TO FIT IN WITH THE PUBLIC AND COMMERCIAL BUILT ENVIRONMENT, NOW AND IN THE FUTURE."



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