



ATG ACCESS
PROTECTING WHAT MATTERS



**CRASH RATED
PRODUCT RANGE**

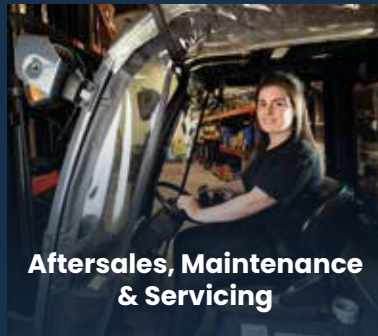
PROTECTING WHAT MATTERS

With over 30 years at the forefront of Hostile Vehicle Mitigation (HVM), ATG Access is recognised not only as a global manufacturer but as an industry pioneer, driving innovation, influencing standards, and shaping the future of physical security.

From humble beginnings in 1989, ATG Access formed in direct response to the problem of cars being stolen from driveways. What started as a range of simple bollards has expanded into a vast range of crash rated bollards, barriers, road blockers and gates. This has facilitated ATG working in partnership with leading architects, landscape designers, engineers, and contractors to deliver HVM solutions for landmark projects, around the world.

ATG's legacy includes some of the most significant advancements in the sector: the UK's first crash-rated automatic bollard certified to BSI PAS 68, the world's first automatic bollard proven to stop a 30-tonne vehicle travelling at 50mph, breakthrough shallow foundation systems, and the industry's first crash-tested bridge protection bollard, to name a few.

Coupled with an extensive crash rated product range
- second to none service delivery covering:





| **RETRACTABLE BOLLARDS** |

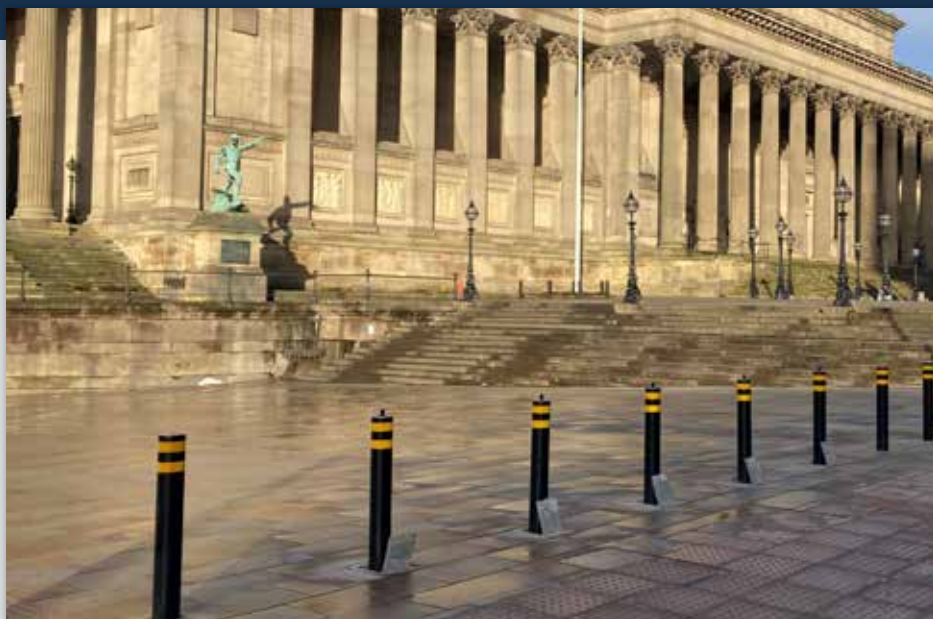
Name	Weight	Speed	Impact Rating	Penetration	Diameter/Dimensions	Height above ground	Sleeved	Minimum array
SP100 Manually- Retractable Bollard	3,500kg	48kph	PAS 68	2.8 m	127 mm	897 mm (excl handle) 940 mm (incl handle)	✓	1 unit
	1,500kg	32kph	PAS 68	0 m	168 mm	700 mm	✓	1 unit
VP HD Automatic Traffic Management Bollard	7,500kg	48kph	PAS 68	0 m	209 mm	1,000 mm	✓	1 unit
	7,500kg	64kph	PAS 68	2.3 m	209 mm	1,000 mm	✓	1 unit
SP400 TT Automatic Bollard	7,500kg	64kph	PAS 68	0.53 m	209 mm (top) 280 mm (base)	1,000 mm	x	1 unit
SP400 Automatic 80 Bollard	7,200kg	80kph	IWA 14-I	1.4 m	223 mm	1,000 mm	✓	1 unit
Stealth Automatic Bollard	7,200kg	80kph	IWA 14-I	2.4 m	230 mm	1,000 mm	x	1 unit
	7,500kg	80kph	PAS 68	0.795 m	230 mm	1,000 mm	x	2 units
SP1000 Automatic Bollard	7,500kg	80kph	PAS 68	0 m	300 mm	1,000 mm	✓	1 unit
	6,800kg	80kph	ASTM	PI	300 mm	1,000 mm	✓	1 unit
SP1200 Automatic Bollard	30,000kg	80kph	PAS 68	3.3 m	300 mm	1,200 mm	✓	1 unit

Penetration Key - Designation

PI

≤1 m

SP100 MANUALLY-RETRACTABLE BOLLARD



Technical Specifications

3,500 kg @ 48 kph

Bollard Diameter	127 mm 141 mm (sleeved)
Height Above Ground	897 mm (to the top of the bollard) 940 mm (to the top of the handle)
Foundation Depth	1,500 mm
Finishes Available	Galvanised, standard RAL colours or fitted with a stainless steel sleeve.
Security Rating	BSI PAS 68: 2010 V/3500(N1)/48/90:2.8/0.0 <i>Minimum tested array – 1 unit</i>

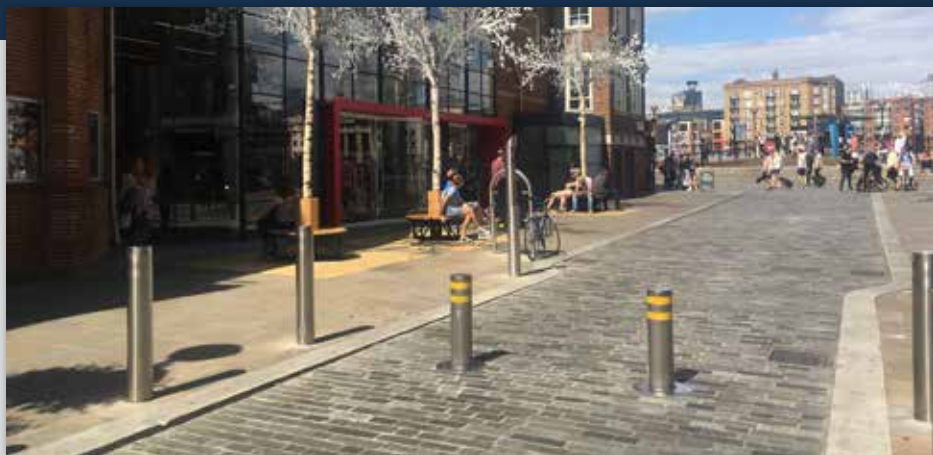
Method of Operation Manually Retractable



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VP HD AUTOMATIC TRAFFIC MANAGEMENT BOLLARD



Technical Specifications

1,500 kg @ 32 kph

Bollard Diameter	168 mm (Core Diameter) 186mm (Sleeved)
Height Above Ground	700 mm
Foundation Depth	1,200 mm
Finishes Available	Supplied with either a black PU sleeve with two yellow reflective bands or in a stainless-steel aesthetic with two yellow bands.
Security Rating	BSI PAS 68: 2010 V/1500(MI)/32/90:0.0/0.0 <i>Minimum tested array – 1 unit</i>
Operations & Speed	Up to 90 operations per hour Operation in approximately 6 – 8 seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery – CA/CE Marked. Can also be integrated into a fully compliant TOPAS system.

Method of Operation Automatic – External HPU



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SP400 AUTOMATIC BOLLARD



Technical Specifications

7,500 kg @ 48 kph | 7,500 kg @ 64 kph

Bollard Diameter	209 mm 219 mm (sleeved) 240 mm (top lid)
Height Above Ground	1,000 mm
Foundation Depth	1,528 mm
Finishes Available	Technical Zinc black finish as standard with the option of two yellow reflective bands. Product can be fitted with an aesthetic sleeve and supplied with a stainless-steel, LED lighting lid if required.
Security Rating	BSI PAS 68: 2007 V/7500/48/0.0/0.0 BSI PAS 68: 2007 V/7500/64/2.3/2.7 <i>Minimum tested array – 1 unit</i>
Operations & Speed	Up to 90 operations per hour Normal Operation: approximately 6 – 8 seconds. An option for EFO facilitating operation in under two seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery – CA/CE Marked. Can also be integrated into a fully compliant TOPAS system.
Method of Operation	Automatic – Hydraulically Operated. External or integral HPU. Also available as a manually retractable bollard.

SP400 TT AUTOMATIC BOLLARD



Technical Specifications

7,500 kg @ 64 kph

Bollard Diameter	209 mm (top section) 280 mm (bottom section)
Height Above Ground	1,000 mm
Foundation Depth	900 mm
Finishes Available	Technical Zinc Black finish as standard. Product can be vinyl wrapped with a bespoke design or advertising copy if required.
Security Rating	BSI PAS 68: 2010 V/7500(N2)/64/90:0.53/6.10 <i>Minimum tested array – 1 unit</i>
Operations & Speed	Up to 90 cycles per hour Normal operation in approximately 6 – 8 seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery – CA/CE Marked. Can also be integrated into a fully compliant TOPAS system.
Method of Operation	Automatic – Hydraulically Operated. External or integral HPU. Also available as a manually retractable bollard.

SP400 AUTOMATIC 80 BOLLARD



Technical Specifications

7,200 kg @ 80 kph

Bollard Diameter	223 mm 230 mm (Sleeved)
Height Above Ground	1,000 mm
Foundation Depth	1,700 mm
Finishes Available	Supplied galvanised and with technical zinc finishes for excellent corrosion protection. It is then supplied as standard with a Grade 316 Stainless-Steel aesthetic sleeve with two bands. The product has the option of a direct LED lighting lid for additional visibility.
Security Rating	IWA 14-1: 2013 V/7200[N2A]/80/90:1.4 <i>Minimum tested array – 1 unit</i>
Operations & Speed	Hydraulically operated with either an external or integral pump, with an option for manual operation when required (operated via a hand-held battery drill). EFO function is available to facilitate operation at a speed of two seconds (external HPU).
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery – CA/CE Marked. Can also be integrated into a fully compliant TOPAS system.
Optional Extras	Emergency Fast Operation Battery Back Up Remote Fault Logging Multiple Access Control Options
Method of Operation	Automatic – Hydraulically Operated. External or integral HPU. Also available as a manually retractable bollard.

STEALTH AUTOMATIC BOLLARD



Technical Specifications

7,200 kg @ 80 kph | 7,500 kg @ 80 kph

Bollard Diameter	230 mm
Height Above Ground	1,000 mm
Foundation Depth	1,700 mm
Finishes Available	Technical Zinc Black Finished as standard with two yellow reflective bands. The external HPU model only. Product can be vinyl wrapped with a bespoke design or advertising copy.
Security Rating	IWA 14-1: 2013 V/7200[N2A]/80/90:2.4 Minimum array – 1 unit. BSI PAS 68: 2013 V/7500(N2)/80/90:0.795/10.4 Minimum array – 2 units
Operations & Speed	Up to 90 cycles per hour Normal operation in approximately 6 – 8 seconds. An optional EFO function is available which facilitates operation within just two seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery – CA/CE Marked. Can also be integrated into a fully compliant TOPAS system.
Method of Operation	Automatic – Hydraulically Operated. External or integral HPU. Also available as a manually retractable bollard.

SP1000 AUTOMATIC BOLLARD



Technical Specifications

7,500 kg @ 80 kph

Bollard Diameter	300 mm 323 mm (aesthetic sleeved)
Height Above Ground	1,000 mm
Foundation Depth	1,933 mm (PAS 68) 2,000 mm (ASTM)
Finishes Available	Galvanised as standard with two yellow reflective bands. Can be fitted with either a black or stainless-steel aesthetic sleeve.
Security Rating	BSI PAS 68: 2007 V/7500 80/0/10.0 ASTM: F2656-07: M50 P1 <i>Minimum tested array – 1 unit</i>
Operations & Speed	Up to 90 cycles per hour Normal operation in approximately 6–8 seconds. An optional EFO function is available which facilitates operation within just two seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery – CA/CE Marked. Can also be integrated into a fully compliant TOPAS system.

Method of Operation Automatic – External HPU



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SPI200 AUTOMATIC BOLLARD



Technical Specifications

30,000 kg @ 80 kph

Bollard Diameter	300 mm 323 mm (aesthetic sleeved)
Height Above Ground	1,200 mm
Foundation Depth	2,133 mm
Finishes Available	Galvanised as standard with two yellow reflective bands. Can be fitted with either a black or stainless-steel aesthetic sleeve.
Security Rating	BSI PAS 68: 2007 V/30000/80:3.30/25 <i>Minimum tested array – 1 unit</i>
Operations & Speed	Up to 90 cycles per hour Normal operation in approximately 6 – 8 seconds. An optional EFO function is available which facilitates operation within just two seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery – CA/CE Marked. Can also be integrated into a fully compliant TOPAS system.

Method of Operation	Automatic – External HPU
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| **FIXED BOLLARDS** |

Name	Weight	Speed	Impact Rating	Penetration	Diameter/ Dimensions	Height above ground	Sleeved	Minimum array
SP100 Fixed	3,500kg	48kph	Engineered Solution	-	127 mm	900 mm	✓	2 units
SP30 High-Security Fixed	7,500kg	48kph	PAS 68	0 m	219 mm	1,000 mm	✓	3 units
SP40 High-Security Fixed	7,500kg	64kph	PAS 68	4 m	219 mm	1,000 mm	✓	3 units
SP50 High-Security Fixed	7,500kg	80kph	PAS 68	10.6 m	273 mm	1,080 mm	✓	3 units
SPK12 Fixed	7,200kg	80kph	IWA 14-I	0 m	273 mm	1,000 mm	x	5 units
SPK12 Removable	7,200kg	80kph	IWA 14-I	0.7 m	273 mm	1,000 mm	x	5 units
Westminster Fixed	7,500kg	64kph	PAS 68	0 m	260 mm (front) 125 mm (side)	1,065 mm	x	3 units
City of London Fixed	7,500kg	80kph	PAS 68	22.7 m	240 mm (base) 157 mm x 155 mm (top)	1,000 mm	x	1 units

SP100 FIXED BOLLARD



Technical Specifications

3,500 kg @ 48 kph

Bollard Diameter	127 mm 141 mm (sleeved)
Height Above Ground	900 mm
Foundation Depth	550 mm
Finishes Available	Galvanised, standard RAL colours or fitted with a stainless steel sleeve.
Security Rating	Engineered to 3,500 kg at 48 kph (30 mph) <i>Minimum array – 2 units</i>

Method of Operation Fixed



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SP30 HIGH-SECURITY FIXED BOLLARD



Technical Specifications

7,500 kg @ 48 kph

Bollard Diameter	219 mm
	254 mm (aesthetic sleeved)
Height Above Ground	1,000 mm
Foundation Depth	600 mm
	(additional socket depth required for the removable)
Finishes Available	Galvanised as standard; can be coated to a specified RAL colour or fitted with an aesthetic sleeve.
Security Rating	BSI PAS 68: 2007 V/7500/48/90:0/0 <i>Minimum tested array – 3 units</i>

Method of Operation Fixed | Removable



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SP40 HIGH-SECURITY FIXED BOLLARD



Technical Specifications

7,500 kg @ 64 kph

Bollard Diameter	219 mm 254 mm (aesthetic sleeved)
Height Above Ground	1,000 mm
Foundation Depth	600 mm (additional socket depth required for the removable)
Finishes Available	Galvanised as standard with banding optional. Can be powder coated to a specified RAL finish or fitted with an aesthetic sleeve.
Security Rating	BSI PAS 68: 2010 V/7500/64/90:4.0/16.7 <i>Minimum tested array – 3 units</i>
Method of Operation	Fixed Removable

SP50 HIGH-SECURITY FIXED BOLLARD



Technical Specifications

7,500 kg @ 80 kph

Bollard Diameter	273 mm 323 mm (aesthetic sleeved)
Height Above Ground	1,080 mm
Foundation Depth	600 mm (additional socket depth required for the removable)
Finishes Available	Galvanised as standard with banding optional. Can be powder coated to a specified RAL finish or fitted with an aesthetic sleeve.
Security Rating	BSI PAS 68: 2010 V/7500(N3)/80/90:10.6/11.1 <i>Minimum tested array – 3 units</i>

Method of Operation Fixed | Removable



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SPK12 FIXED BOLLARD



Technical Specifications

7,200 kg @ 80 kph

Bollard Diameter 273 mm

Height Above Ground 1,000 mm

Foundation Depth 1,200 mm

Finishes Available Galvanised or a painted finish. Can be painted to any specified RAL colour.

Security Rating

FIXED

IWA 14-1: 2013 V/7200[N2A]/80/90:0.0

REMOVABLE

IWA14-1: 2013 Bollard V/7200[N2A]/80/90:0.7

Minimum tested array – 5 units (mixed operation type if required)

Method of Operation Fixed | Removable



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WESTMINSTER FIXED BOLLARD



Technical Specifications

7,500 kg @ 64 kph

Bollard Dimensions	260 mm (front face) 125 mm (side profile)
Height Above Ground	1,065 mm
Foundation Depth	800 mm
Finishes Available	Black, primed manganese steel. Can be fitted with logo or crest.
Security Rating	BSI PAS 68: 2013 V/7500[N3]/64/90:0.0/5.3 <i>Minimum tested array – 3 units</i>

Method of Operation Fixed



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CITY OF LONDON FIXED BOLLARD



Technical Specifications

7,500 kg @ 80 kph

Bollard Dimensions	240 mm (base) 157 x 155 mm (top)
Height Above Ground	1,304 mm
Foundation Depth	750 mm
Finishes Available	Black, primed manganese steel.
Security Rating	BSI PAS 68: 2013 V/7500/80/90:22.7/25.0 <i>Minimum tested array – 1 unit</i>

Method of Operation Fixed



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| **SHALLOW MOUNT BOLLARDS** |

Name	Weight	Speed	Impact Rating	Penetration	Diameter/ Dimensions	Height above ground	Sleeved	Minimum array
Excalibur 90 Fixed	1,500kg	48kph	PAS 68	0 m	90 mm	914 mm	✓	3 units
Excalibur 125 Fixed	7,500kg	32kph	PAS 68	0 m	125 mm	900 mm	✓	3 units
SP1000 Shallow-Mount 112	7,500kg	64kph	PAS 68	1.2 m	305 mm	1,020 mm	✓	3 units
SP1000 Shallow-Mount 150	7,500kg	80kph	PAS 68	5 m	305 mm	1,000 mm	✓	3 units
	7,200kg	80kph	IWA 14-1	5.3 m	305 mm	1,000 mm	✓	5 units
Centurion Shallow-Mount	7,200kg	80kph	IWA 14-1	1.9 m	143 mm x 294 mm	1,100 mm	✓	3 units
	7,200kg	80kph	PAS 68	3.6 m	305 mm	1,100 mm	✓	5 units
Gladiator Shallow-Mount	6,800 kg	80kph	ASTM	P1	305 mm	1,220 mm	✓	5 units
	6,800 kg	80kph	ASTM	P2	305 mm	1,100 mm	✓	5 units
Westminster Shallow-Mount	7,500kg	64kph	PAS 68	0 m	260 mm (front) 125 mm (side)	1,065 mm	x	3 units
Westminster Shallow-Mount Removable	7,500kg	64kph	PAS 68	1.3 m	260 mm (front) 125 mm (side)	1,065 mm	x	3 units
City of London Shallow-Mount	7,500kg	80kph	PAS 68	19.2 m	240 mm (base) 157 mm x 165 mm (top)	1,304 mm	x	3 units
	7,500kg	48kph	PAS 68	0 m	203 mm	800 mm	✓	3 units
SP400 SM 48	7,200kg	48kph	IWA 14-1	0.2 m	203 mm	800 mm	✓	3 units
	7,500kg	64kph	PAS 68	5 m	203 mm	800 mm	✓	3 units
SP400 SM 64	7,475kg	64kph	IWA 14-1	5.2 m	203 mm	800 mm	✓	3 units
	7,500kg	80kph	IWA 14-1	10.5 m	203 mm	800 mm	✓	3 units
SP400 Super Shallow	7,200kg	80kph	IWA 14-1	3.3 m	203 mm	950 mm	✓	3 units
SP1200 Shallow Mount	30,000kg	80kph	IWA 14-1	4 m	305 mm	1,200 mm	✓	3 units
	30,000kg	80kph	PAS 68	3.7 m	305 mm	1,200 mm	✓	3 units

Penetration Key - Designation			Penetration
	P1		≤1 m
	P2		> 1m - ≤ 7m

EXCALIBUR FIXED BOLLARD



Technical Specifications

1,500 kg @ 48 kph | 7,500 kg @ 32 kph

	90 mm	125 mm
Bollard Diameter	Core diameter 90 mm 141 mm (sleeved)	Core diameter 125 mm 141 mm (sleeved)
Height Above Ground	914 mm	900 mm
Foundation Depth	450 mm	
Finishes Available	Black, primed manganese steel core fitted with a stainless steel sleeve as standard. Other sleeves can be supplied on consultation with our technical team.	
Security Rating	BSI PAS 68: 2007 v/1500/48:0/0 <i>Minimum tested array – 3 units</i>	BSI PAS 68: 2007 v/7500/32:0/0 <i>Minimum tested array – 3 units</i>

Method of Operation Shallow Mount | Removable



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SP1000 SHALLOW-MOUNT BOLLARD



Technical Specifications

7,500 kg @ 64 kph
7,500 kg @ 80 kph | 7,200 kg @ 80 kph

	112 mm Depth Variant	150 mm Depth Variant
Bollard Diameter	305 mm / 323 mm (sleeved)	
Height Above Ground	1,020 mm	1,000 mm
Foundation Depth	112 mm (additional socket depth required for the removable)	150 mm (additional socket depth required for the removable)
Finishes Available	Galvanised as standard. Can be to a specified RAL finish or fitted with an aesthetic sleeve (323 mm) which can feature bands if required.	
Security Rating	BSI PAS 68: 2007 V/7500/64:1.2/3.1 <i>Minimum tested array – 3 units</i>	BSI PAS 68: 2007 V/7500/80:5.0/14.0 <i>Minimum tested array – 3 units</i> IWA 14-1: 2013 V/7200[N2A]/80/90:5.3 <i>Minimum tested array – 5 units</i>

Method of Operation Shallow Mount | Removable

CENTURION SHALLOW-MOUNT BOLLARD



Technical Specifications

7,200 kg @ 80 kph

Bollard Dimensions 143 mm x 294 mm

Height Above Ground 1,100 mm

Foundation Depth 170 mm
(additional socket depth required for the removable)

Finishes Available Component parts supplied galvanised as standard. The core is sleeved as standard with a stainless steel, rectangular sleeve (176 mm x 324 mm). Bespoke sleeves can be designed and supplied after consultation with our technical team.

Security Rating IWA 14-1: 2013 V/7200[N2A]/80/90:1.9
Minimum tested array – 3 units

Method of Operation Shallow Mount | Removable



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GLADIATOR SHALLOW-MOUNT BOLLARD



Technical Specifications

7,500 kg @ 80 kph

	Tested System : BSI PAS 68	Tested System: M50 P1	Tested System: M50 P2
Bollard Diameter	305 mm 323 mm (sleeved)		
Height Above Ground	1,200 mm	1,220 mm	1,100 mm
Foundation Depth	150 mm	203 mm	203 mm
Finishes Available	Zinc coated, black finish as standard with two yellow reflective bands. Option to fit with an aesthetic sleeve (240 mm diameter) or with direct LED (RGBW) lights - the external HPU model only. Product can be vinyl wrapped with a bespoke design or advertising copy.		
Security Rating	BSI PAS 68: V/7,500(N3)/80/ 90:3.6/7.9 <i>Minimum tested array – 5 units</i>	ASTM: M50 P1 <i>Minimum tested array – 5 units</i>	ASTM: M50 P2 <i>Minimum tested array – 5 units</i>

Method of Operation Shallow Mount

WESTMINSTER SHALLOW-MOUNT BOLLARD



Technical Specifications

7,500 kg @ 64 kph

Bollard Diameter	260 mm (front face), 125 mm (side profile)
Height Above Ground	1,065 mm
Foundation Depth	150 mm (additional socket depth required for the removable)
Finishes Available	Black, primed manganese steel. Can be fitted with logo or crest.
Security Rating	SHALLOW MOUNT BSI PAS 68: 2010 V/7500[N2]/64/90:0.0/3.7 <i>Minimum tested array – 3 units</i> REMOVABLE IWA14-1: 2013 Bollard V/7200[N2A]/64/90:1.3 <i>Minimum tested array – 3 units</i>
Method of Operation	Shallow Mount Removable

CITY OF LONDON SHALLOW-MOUNT BOLLARD



Technical Specifications

7,500 kg @ 80 kph

Bollard Dimension	240 mm x 240 mm (base) 157 mm x 155 mm (top)
Height Above Ground	1,304 mm
Foundation Depth	150 mm (additional socket depth required for the removable)
Finishes Available	Black, primed manganese steel.
Security Rating	BSI PAS 68: V/7,500(N3)80/90:19.2/25.0 <i>Minimum tested array – 3 units</i>

Method of Operation Shallow Mount | Removable



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SP400 SM 48 BOLLARD



Technical Specifications

7,500 kg @ 48 kph
7,200 kg @ 48 kph

Bollard Diameter	203 mm 219 mm (sleeved)
Height Above Ground	800 mm 940 mm
Foundation Depth	178 mm
Finishes Available	Galvanised for maximum corrosion protection. May also be accessorised with a range of attractive aesthetic sleeves in a variety of RAL colours as well as stainless steel.
Security Rating	BSI PAS 68: 2013 V/7500[N2]/48/90:0.0/0.0 IWA 14-1: 2013 V/7200[N2A]/48/90:0.2 <i>Minimum tested array – 3 units</i>

Method of Operation Shallow Mount | Removable



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SP400 SM 64 BOLLARD



Technical Specifications

7,500 kg @ 64 kph
7,200 kg @ 64 kph

Bollard Diameter	203 mm 219 mm (sleeved)
Height Above Ground	800 mm 940 mm
Foundation Depth	178 mm
Finishes Available	Galvanised for maximum corrosion protection. May also be accessorised with a range of attractive aesthetic sleeves in a variety of RAL colours as well as stainless steel.
Security Rating	BSI PAS 68: 2013 V/7500(N2)/64/90:5.0/4.0 IWA 14-1: 2013 V/7200[N2]/64/90:5.2 <i>Minimum tested array – 3 units</i>

Method of Operation Shallow Mount | Removable



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SP400 SM 80 BOLLARD



Technical Specifications

7,500 kg @ 80 kph

Bollard Diameter	203 mm 219 mm (sleeved)
Height Above Ground	800 mm 940 mm
Foundation Depth	178 mm
Finishes Available	Galvanised for maximum corrosion protection. May also be accessorised with a range of attractive aesthetic sleeves in a variety of RAL colours as well as stainless steel.
Security Rating	IWA 14-1: 2013 V/7500(N2A)/80/90:10.5 <i>Minimum tested array – 3 units</i>

Method of Operation Shallow Mount | Removable



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SP400 SUPER SHALLOW BOLLARD



Technical Specifications

7,200 kg @ 80 kph

Bollard Diameter	203 mm 219 mm (sleeved)
Height Above Ground	950 mm
Foundation Depth	128 mm (additional socket depth required for the removable)
Finishes Available	Galvanised for maximum corrosion protection. May also be accessorised with a range of attractive aesthetic sleeves in a variety of RAL colours as well as stainless steel.
Security Rating	IWA 14-1: 2013 V/7200(N2A)/80/90:3.3 <i>Minimum tested array – 3 units</i>
Method of Operation	Shallow Mount Removable

SP1200 SHALLOW-MOUNT BOLLARD



Technical Specifications

30,000 kg @ 80 kph

Bollard Diameter	305 mm / 323 mm (sleeved)
Height Above Ground	1,200 mm
Foundation Depth	308 mm
Finishes Available	Galvanised for maximum corrosion protection. May also be accessorised with a range of attractive aesthetic sleeves in a variety of RAL colours as well as stainless steel.
Security Rating	IWA 14-1: 2013 V/30000[N3F]/80/90:4.0 BSI PAS 68: 2013 V/30000(N3)/80/90:3.7/23.3 <i>Minimum tested array – 3 units</i>

Method of Operation Shallow Mount



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ROAD BLOCKERS & VEHICLE BARRIERS

Name	Weight	Speed	Impact Rating	Penetration	Widths/ Length	Height above ground
Sentinel Road Blocker	6,800kg	80kph	DOS	L3	2.5 m - 4.2 m	965 mm
Cedar High-Security Barrier	7,500kg	48kph	PAS 68	0 m	4,500 mm	843 mm
Patriot Beam Barrier	6,800kg	80kph	ASTM	PI	3,658 mm	914 mm
	6,800kg	80kph	DOS	L2	7,315 mm	914 mm

Penetration Key - Designation		Penetration
PI		≤1 m
L3		≤ 915mm
L2		>915mm - ≤ 6.1m

SENTINEL ROAD BLOCKER



Technical Specifications

6,800 kg @ 80 kph

Road Blocker Widths	8-14 ft (2.5 m – 4.2 m)
Height Above Ground	38 inches (965 mm) when fully deployed
Foundation Depth	18 inches (458 mm)
Finishes Available	All components are galvanised as standard and then painted yellow and black with an option to fit red LED lights if required.
Security Rating	US Department of State (DOS): K12 L3 (Equivalent to M50 P1)
Control Systems	Hydraulically operated with an optional EFO and battery back up function (up to 3 cycles). Controlled via a PLC which can be tailored to suit the number of inputs and outputs required.
Method of Operation	Automatic – External HPU

CEDAR HIGH-SECURITY BARRIER



Technical Specifications

7,500 kg @ 48 kph

Barrier Width	4,500 mm
Height Above Ground	843 mm – bottom of bar height
Foundation Depth	500 mm
Finishes Available	Galvanised as standard and then painted yellow. Alternative RAL colours are available on request.
Security Rating	BSI PAS 68: 2010 V/7500[N2]/48/90:0.0/0.0

Method of Operation Manually Operated



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PATRIOT BEAM BARRIER



Technical Specifications

6,800 kg @ 80 kph

Barrier Widths	12 ft (3,658 mm)	24 ft (7,315 mm)
Height Above Ground	914 mm – beam height when deployed	
Foundation Depth	305 mm (depth of beam trench) 1,743 mm (stanchions)	
Finishes Available	Painted in black as standard. For any other finish requirement, please consult with our technical team.	
Security Rating	US DOS SD-STD-02.01: K12 L2 (equivalent to ASTM M50 P1)	ASTM: M50 P1

Method of Operation Automatic - External HPU



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| GATES |

Name	Weight	Speed	Impact Rating	Penetration	Widths	Height above ground
Cityscape Gate	7,500kg	64kph	PAS 68	1.09 m	4,000 mm - 8,000 mm	910 mm (beam height)
Vulcan Long-Span Gate	7,200kg	80kph	IWA 14-I	6 m	4,000 mm - 12,000 mm	1,035 mm (gate arm) 1,350 mm (max post height)

CITYSCAPE GATE



Technical Specifications

7,500 kg @ 64 kph

Height Above Ground	910 mm – beam height
Widths Available	4,000 mm – 8,000 mm. The sleeve diameter of the end posts measured from the underside of the beam is 355 mm. Tested configuration – 4.5 wide.
Foundation Depth	300 mm plus 100 mm ground cover
Finishes Available	Supplied in either a stainless-steel or powder-coated finish to any RAL colour specified. Can be left- or right-handed. Engineered shallow mount version also available
Security Rating	BSI PAS 68: 2007 V7500/64/1.09/2.40 <i>Tested width span 4.5 meters (centers)</i>
Method of Operation	Manually operated with a locking mechanism which can be either automated or manual.



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VULCAN LONG-SPAN GATE



Technical Specifications

7,200 kg @ 80 kph

Height of Gate	1,035 mm (top of the gate arm)
Height of Gate Posts	1,100 mm – Locking Post Height 1,550 mm – Hinge Post Height
Gate Post Diameter	203 mm
Gate Width	Tested Width – 12,000 mm (clear opening) Available width spans: 4,000 mm – 12,000 mm
Foundation	1,500 mm Depth Required Foundation Pad – 1,500 x 1,500 mm
Finishes Available	The gate frame is manufactured in aluminium. All steel parts are hot-dip galvanised as standard to BS EN ISO 1461. The gate finish is supplied in a RAL, powder-coated finish, black as standard. Can be painted to alternative RAL specifications if required. An engineered shallow foundation can also be provided
Security Rating	IWA 14-1: 2013 V/7,200[N2A]/80/90:6.0 <i>Tested width span 12,000 mm</i>
Method of Operation	Manually Operated



| BRIDGE PROTECTION |

Name	Weight	Speed	Impact Rating	Penetration	Diameter/ Dimensions / Widths	Height above ground	Sleeved	Minimum array
Populus Ultra Shallow	7,500kg	48kph	PAS 68	0.6 m	153 mm	800 mm	✓	7 units
Westminster Bridge Protection	7,500kg	48kph	IWA 14-1	0.6 m	260 mm (front) 124 mm (side)	1,130 mm	x	5 units
	7,200kg	48kph	PAS 68	0.4 m	260 mm (front) 124 mm (side)	1,130 mm	x	5 units
Bridge Deck Expansion Beam	7,200kg	48kph	IWA 14-1	0.2 m	5,550 mm	500 mm	N/A	-

POPULUS ULTRA SHALLOW BOLLARD



Technical Specifications

7,500 kg @ 48 kph

Bollard Diameter 153 mm (galvanised core); 168 mm sleeved (any sleeve specification can be accommodated)

Height Above Ground 800 mm (above finished floor level)

Foundation Depth 40 mm (true depth)

Finishes Available Galvanised core. Historic / heritage sleeve designs can be accommodated if required; the slim high-security core of this system can easily accommodate special aesthetics. Handrails and pedestrian guardrail can be accommodated to restrict pedestrian access anywhere along the array.

Security Rating **BSI PAS68:** 2013 V/7500[N2]/48/30:0.6/0.0

Minimum tested array – 7 units

Method of Operation Fixed | Shallow Mount



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WESTMINSTER BRIDGE PROTECTION BOLLARD



Technical Specifications

7,200 kg @ 48 kph | 7,500 kg @ 48 kph

Bollard Diameter	260 mm (front face, at base) 124 mm (side face, at base)
Height Above Ground	1,130 mm
Foundation Depth	40 mm (primary foundation depth)
Finishes Available	Black primed Manganese steel. Can be fitted with logo or crest.
Security Rating	IWA 14: V/7,200[N2A]/48/30:0.6 <i>Minimum tested array – 5 units</i> BSI PAS 68: V/7,500[N2]/48/30:0.4/0.0 <i>Minimum tested array – 5 units</i>

Method of Operation Fixed | Shallow Mount



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BRIDGE DECK EXPANSION BEAM



Technical Specifications

7,200 kg @ 48 kph

Beam Width	5,550 mm (approx.)
Beam Profile Width	203 mm
Beam Height Above Ground	500 mm to underside of beam
Anchoring Bollard Height Above Ground	800 mm
Foundation Depth	Anchoring bollard has a 40 mm depth
Finishes Available	Galvanised structure which can be clad and finished to a multitude of different aesthetics to suit the application. Historic / heritage designs can be accommodated if required; the slim profile of the beam (approx. 200mm) can easily accommodate bespoke aesthetics should they be required.
Security Rating	IWA 14-1: V/7,200(N2A)/48/30:0.2 Tested in configuration with our Populus Ultra Shallow Bollards

Method of Operation Fixed



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| TEMPORARY SECURITY |

Name	Weight	Speed	Impact Rating	Penetration	Diameter/ Dimensions	Height above ground	Sleeved	Minimum array
Surface Guard Barrier & Access System	7,200kg	32kph	IWA 14-I	4.8 m	1,425 mm (front to back) 1,185 mm (width)	900 mm	✓	14 units
	2,500kg	48kph	IWA 14-I	4.5 m	1,425 mm (front to back) 1,185 mm (width)	900 mm	✓	14 units
SP400 Surface Mounted - Bolted	7,500kg	48kph	PAS 68	0 m	203 mm	1,050 mm	x	6 units
SP400 Surface Mounted - Ballast	7,500kg	48kph	PAS 68	2 m	203 mm	1,050 mm	x	6 units
SP400 Surface Mounted - Bollard Secured	7,500kg	48kph	PAS 68	0.9 m	203 mm	1,050 mm	x	8 units

SURFACE GUARD BARRIER & ACCESS SYSTEM



Technical Specifications

7,200 kg @ 32 kph | 2,500 kg @ 48 kph

Single Unit Footprint	1,425 mm (front to back) x 1,185 mm (width)
Guard Height Above Ground	700 mm
Ramp Length	450 mm as standard. Alternative lengths available.
Finishes Available	Supplied with a light-grey polyurethane cover. This can be vinyl wrapped by the client if required.
Optional Extras	A vehicle access point can be added to a standard, Surface Guard array to allow emergency service vehicles through the system.
Security Rating	IWA 14-1: 2013 V/7200[N3C]/32/90:4.8 IWA 14-1: 2013 V/2500[NIG]/48/90:4.5 <i>Minimum tested array – 14 units</i>

UK Patent Application No: GB1706964.2

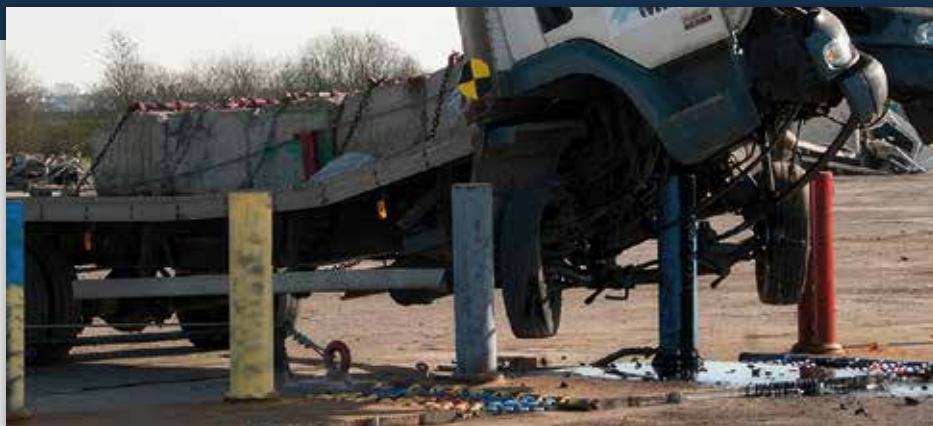
Method of Operation Temporary Security



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SP400 SURFACE-MOUNTED BOLLARD



Technical Specifications

7,500 kg @ 48 kph

Bollard Diameter	203 mm
Height Above Ground	1,050 mm (including surface plate)
Foundation Depth	Surface Mounted – 0 mm
Finishes Available	Galvanised as standard. For any alternative finishes required, please consult with our technical team.
Security Rating	Bolted at each end of the array BSI PAS 68: V/7500(N2)/48/90:0.0/0.0 <i>Minimum tested array – 6 units</i> Secured with ballast at each end of the array BSI PAS 68: 2010 V/7500[N2]/48/90:2/0 <i>Minimum tested array – 6 units</i> Linked to static bollards at each end of the array IWA 14-1: Bollard V/7200[N2A]/48/90:0.9 <i>Minimum tested array – 8 units</i>
Method of Operation	Fixed Surface Mounted



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