

## Product Profile

Bristorm Zero is available in a variety of different configurations depending on your specific requirements.

The Bristorm Fence deflects and absorbs energy upon impact making the final deceleration and stopping both rapid and destructive.



# Quick reference guide



## Bristorm Zero Fence

ASTM F2656-07/15 tested and rated

Type	Vehicle (Kg)	Speed (mph)	Impact Angle	Standard	Performance Rating	Penetration	Major Debris
Bristorm Zero	6,800	50	90	ASTM F2656	M50 P1	0.0 / 0.8m*	n/a
Bristorm Zero-P2	6,800	50	90	ASTM F2656	M50 P2	3.0m	n/a

## Bristorm Fence System

BSI PAS 68 tested and rated

Type	Vehicle (Kg)	Speed (mph)	Impact Angle	Standard	Performance Rating	Penetration	Major Debris
Bristorm 30	7,500	30	90	BSI PAS 68	V / 7500 / 48 / 90 : 2.0 / 0.0	2.0m	0.0m
Bristorm 30	7,500	40	45	BSI PAS 68	V / 7500 / 64 / 45 : 2.0 / 0.0	2.0m	0.0m
Bristorm 40	7,500	40	90	BSI PAS 68	V / 7500 / 64 / 90 : 2.0 / 0.0	2.0m	0.0m
Bristorm 50	7,500	50	90	BSI PAS 68	V / 7500 / 80 / 90 : 2.0 / 12.0	2.0m	12.0m
Bristorm LP	2,500	30	90	BSI PAS 68	V / 2500 / 48 / 90 : 1.64 / 2.86	1.64m	2.86m
Bristorm LP	2,500	40	90	BSI PAS 68	V / 2500 / 64 / 90 : 3.2 / 4.5	3.2m	4.5m
Bristorm IVP	2,500	40	90	BSI PAS 68	V / 2500 / 64 / 90 : 2.4 / 0.0	2.4m	0.0m

## Bristorm Beam Fence

BSI PAS 68 tested and rated

Type	Vehicle (Kg)	Speed (mph)	Impact Angle	Standard	Performance Rating	Penetration	Major Debris
Bristorm Beam	7,500	30	90	BSI PAS 68	V / 7500 / 48 / 90 : 0.3 / 0.0	0.3m	0.0m

\*Changes to the system layout and configuration will determine the penetration rating. Please contact our technical department for further information on 01902 499400.





## Bristorm Zero

### Bristorm Zero. Zero Penetration. Zero Major Debris.

Bristorm Zero is the latest high performance anti-vehicle perimeter fence from Hill & Smith Ltd.

It is fully tested and rated to ASTM F2656 M50 P1 and can offer Zero Penetration by a 6,800Kg attacking vehicle.

Our Bristorm Zero is available in three different configurations.

Achieving both M50 P1 and M50 P2 ratings, Bristorm can offer a variety of high performance and cost-effective perimeter security solutions that will fulfil your site security and layout requirements.

[www.bristormzero.com](http://www.bristormzero.com)



#### Product Features:

- ✓ **ASTM F2656 M50 P1 tested and rated** – under 1 metre
- ✓ **Fully tested and rated in soft ground**
- ✓ Zero tension system – **no maintenance**
- ✓ **Zero major debris**
- ✓ **New rope mounting bracket technology**
- ✓ **Extended lengths** between main anchor posts
- ✓ **Truck remains outside your perimeter**
- ✓ **Seamless and flexible** – corners and angles are no issue
- ✓ **Can be combined with other Bristorm systems**
- ✓ Standard Bristorm steel ropes which are **easy to handle**
- ✓ **Fully galvanised** for erosion protection

## Bristorm Zero System

ASTM F2656-07/15 tested and rated



Type	Vehicle (Kg)	Speed (mph)	Impact Angle	Performance Rating	Penetration
Bristorm Zero	6,800	50	90	M50 P1	0.0 / 0.8m
Bristorm Zero-P2	6,800	50	90	M50 P2	3.0m

ASTM F2656-07/15 is the test method that provides a structured procedure to establish a penetration rating for vehicle perimeter barriers subjected to a vehicle impact at 30, 40 and 50mph. Knowing the penetration rating provides the ability to select an appropriate barrier for site-specific conditions around a facility. ASTM F2656 is most commonly recognised across the US and Middle East.



## Product Profile

Varied levels of performance to ensure your site is appropriately protected from a perceived vehicular threat.

Modular fitment allows you to develop a cost-effective solution that will protect your perimeter from a vehicle-borne attack.







## Bristorm Tensioned HVM Fence

### Bristorm 30, 40, 50, LP & IVP. Discrete Wire Rope Perimeter Protection.

Bristorm HVM perimeter fence systems are novel solutions consisting of an arrangement of tensioned standard Bristorm steel ropes each supported on steel line posts and secured by anchor posts.

The high modulus of elasticity of the steel ropes means re-tensioning is not required and all components are fully galvanised at our own facility in the UK. All systems are rated and tested to BSI PAS 68 meaning they can appropriately mitigate a 7,500Kg hostile vehicle travelling at speeds of 30, 40 and 50mph.

Our Bristorm LP and IVP systems are crash tested at 40mph against a 2,500Kg pick-up truck. Our wire rope HVM perimeter fence within integrated personnel fence is a cost-effective alternative designed to protect long stretches of perimeter on uneven ground.



#### Product Features:

- ✓ **Tested to BSI PAS 68**
- ✓ **4 versions available** – up to 7,500Kg/50mph N3 performance
- ✓ **Economic, subtle and efficient operation**
- ✓ Allows **clear line of site**
- ✓ **Low maintenance**
- ✓ **Quick installation** in all ground types
- ✓ **Modular fitment** – different levels of protection available in the same fence line
- ✓ **Foundations remain in place** after impact
- ✓ **Immobilises attacking vehicle**
- ✓ Ability to **withstand subsequent encroachment**

## Bristorm Anti-Vehicle System

BSI PAS 68 tested and rated



Type	Vehicle (Kg)	Speed (mph)	Impact Angle	Performance Rating	Penetration
Bristorm 30	7,500	30	90	V / 7500 / 48 / 90 : 2.0 / 0.0	2.0m
Bristorm 30	7,500	40	45	V / 7500 / 64 / 45 : 2.0 / 0.0	2.0m
Bristorm 40	7,500	40	90	V / 7500 / 64 / 90 : 2.0 / 0.0	2.0m
Bristorm 50	7,500	50	90	V / 7500 / 80 / 90 : 2.0 / 12.0	2.0m
Bristorm LP	2,500	30	90	V / 2500 / 48 / 90 : 1.64 / 2.86	1.64m
Bristorm LP	2,500	40	90	V / 2500 / 64 / 90 : 3.2 / 4.5	3.2m
Bristorm IVP	2,500	40	90	V / 2500 / 64 / 90 : 2.4 / 0.0	2.4m

BSI PAS 68 identifies impact test methods, tolerances, test vehicle type and vehicle performance criteria that need to be met in order to conform to PAS 68. PAS 68 cites a classification system for the performance of vehicle security barriers and their supporting foundations when subjected to a single horizontal impact by a 7,500Kg truck travelling at 30, 40 and 50mph. This standard is most commonly recognised across the UK and Europe.



## Product Profile

Shallow and surface mount, tensioned HVM barrier offers 0.3 metre penetration by a 7,500Kg truck travelling at 30mph.

Suitably installed across industrial sites and Critical National Infrastructure where underground services are present.

Quick installation and reliable performance.





## Bristorm Beam

Combined beam and rope technology. Shallow and surface mount.

Bristorm Beam uses combined technologies of rope and specially developed beam. This system consists of shallow end foundations of just 500mm deep and line posts then can be surface or shallow mounted into a 250mm deep ground beam.

It is ideal when underground services are present and if a penetration of less than 1 metre is required to mitigate a 7,500Kg truck travelling at 30mph. With zero major debris and a corrugated beam profile, it can be appropriately installed into heavily built up locations thus ensuring the protection of pedestrians and asset throughout, e.g. Industrial yards or distribution sites.



### Product Features:

- ✓ Tested to **BSI PAS 68**
- ✓ Industry Leading – **low penetration of 0.3m with zero debris**
- ✓ **Shallow foundation** of 500mm at each end only
- ✓ **Surface mounted line posts** – or shallow beam of 250mm if required
- ✓ **Economical and robust alternative** to fence and bollards
- ✓ **Fast installation** with reduced civils

## Bristorm Beam

BSI PAS 68 tested and rated



Type	Vehicle (Kg)	Speed (mph)	Impact Angle	Performance Rating	Penetration
Bristorm Beam	7,500	30	90	V / 7500 / 48 / 90 : 0.3 / 0.0	0.3m





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