



Street Furniture to protect city centres and crowded places from vehicle borne attacks.



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Hostile Vehicle Mitigation  
and Perimeter Security

Security Street Furniture



# Anti-Vehicle Street Furniture

Bristorm is the security division of Hill & Smith Ltd and is a member of the Hill & Smith Holdings Infrastructure Products Group. Bristorm have vast experience in the development of high security perimeter fences and bollards; they have innovated further to develop a range of crash tested street furniture, suitable for protecting critical national infrastructure, crowded places and city centres from vehicle borne attacks.

All Bristorm Street Furniture is crash tested and rated at MIRA and TRL to PAS 68; the design concept allows their sleeve covers to be adapted in line with architects' and planners' aesthetic requirements, without compromising the performance of the security Impeder Bollards. Bespoke, high quality and high performance systems can be integrated to new and existing environments to ensure the protect of pedestrians throughout.

More information can be found at - [bristorm.com](http://bristorm.com)  
For technical support visit - [xtratech.bristorm.co.uk](http://xtratech.bristorm.co.uk)



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# Bristorm Impeder Core

Street Furniture



Bristorm Impeder Bollards are all manufactured from steel in our own UK factory. The Bristorm Impeder Bollard range can be installed in small groups, or as a complete perimeter line, to offer a simple form of anti-vehicle barrier. Developed to compliment the Bristorm anti-vehicle fence, the range of Bristorm Impeder Bollards are ideal for protecting small areas of a perimeter, the street scene, city centres and areas of high activity from a vehicle ramming attack.

## Impeder Core Benefits

- > Tested to BSI PAS 68 at MIRA and TRL
- > Economical option for short lengths of perimeter
- > Ideal for protecting crowded places, city centres and high profile sites
- > Can Integrate with other Bristorm security products
- > No maintenance
- > Shallow mount and low penetration available
- > Galvanised to EN ISO 1461:2009
- > Immobilises attacking vehicle
- > Ability to withstand subsequent encroachment
- > Certain models available as removable
- > Our Bristorm 50 HD unit features 2.1m penetration



Product	Vehicle Mass KG	Speed mph	Penetration	BSI PAS 68 Rating	Foundation Depth
Bristorm	7,500	30	0m	V / 7500[N2]/ 48 / 90 : 0 / 0	750mm
Bristorm Impeder 30	7,500	30	0m	V / 7500[N2]/ 48 / 90 : 0 / 0	400mm
Bristorm Impeder 40	7,500	40	3.3m	V / 7500[N2]/ 64 / 90 : 3.3 / 0	750mm
Bristorm Impeder 50	7,500	50	10.6m	V / 7500[N3]/ 80 / 90 : 10.6 / 1	750mm
Bristorm Impeder 50HD	7,500	50	0.8m	V / 7500 / 80 / 90 : 0.8 / 18.1	800mm



Street Scene  
and City Centre  
Protection

Aesthetically  
Pleasing Designs

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## Bristorm Impeder Sleeve

Street Furniture



The Bristorm Street Furniture range is inclusive of stylish bollard covers that sit comfortably over the range of Bristorm Impeder bollards, tested to BSI PAS 68.

Our standard range of bollard sleeves offer a Flat, Dome or Mitre top design and will be finished, as standard, in stainless steel. Additional options can be added to the bollard in the way of reflective strips, LED lighting and modular LED lighting components; logo and business branding can also be added to the Mitre sleeve.

These new designs maintain the Impeder's high product performance but increases the aesthetics to allow for the integration into the street scene and city centre to protect crowded and high profile places, critical national infrastructure and pedestrians from vehicle borne attacks.

### Sleeve Benefits

- > Core tested to PAS 68
- > Secured to any Bristorm Impeder bollard
- > Standard stainless steel finish
- > Aluminium brush, anodized aluminium or galvanised finish
- > Variety of colours and reflective strips available
- > **Additional branding available**
- > **Integrated LED lighting available**
- > Bolted down or secured below surface
- > Dome, Flat or Mitre top



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## Bristorm Cycle Hoops

Street Furniture



**Australian  
Security Fencing**  
*Protecting your interests*

Bristorm Cycle Hoops fit comfortably over the Impeder Bollards that are tested at MIRA and TRL to BSI PAS 68. The Bristorm Cycle Hoops do not compromise the high security performance of the Impeder Bollard but they will increase functionality across site and national infrastructure.

Currently Bristorm's range is inclusive of two standardised designs, a Curved Cycle Hoop and a Square Cycle Hoop. Architects are able to integrate these sophisticated and subtle cycle hoops into their brief but if a specific design is required, Bristorm can change the shape and design as long as it doesn't compromise the overall high security performance. The functionality they provide will also help to control the movement of pedestrians and cyclists to help reduce hazards and to keep individuals clear from the roadside.

### Benefits

- > Core tested to PAS 68
- > Secured to any Bristorm Impeder bollard
- > Standard stainless steel finish
- > Aluminium brush, anodized aluminium or galvanised finish
- > Bolted down or secured below surface
- > Bespoke designs available under request
- > **Hoop design can be changed accordingly**



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## Performance at the Heart

Bristorm Street Furniture is designed to mitigate vehicle borne attacks across critical national infrastructure and the street scene as the core is tested to BSI PAS 68.



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## Bristorm Planters

Street Furniture



**Australian  
Security Fencing**

*Protecting your interests*

Using Bristorm's renowned Impeder Bollard, the Bristorm Planter will effectively mitigate hostile vehicles throughout city centres and the street scene. The use of planters allows architects to fulfill multiple aspects of their design brief. The aesthetics of the surrounding environment can be improved whilst environmental requirements can be briefly fulfilled through the products functionality.

Bristorm have made efforts to ensure their range is stylish, sophisticated and practical to encourage site owners and architects to use high quality and reliable crash rated furniture across crowded locations, Eco-friendly commercial sites and within schemes that have 'green' requirements.

### Benefits

- > Core tested to PAS 68
- > Secured to any Bristorm Impeder bollard
- > Standard stainless steel finish
- > Aluminium brush, anodized aluminium or galvanised finish
- > Shape and size of planter can be altered
- > Additional branding can be incorporated
- > Effective yet simple drainage system

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### Go Green

Bristorm Planters help architects' to fulfill the green requirements within a brief whilst also allowing unique and aesthetic displays to be showcased throughout the year.



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## Bristorm Living Wall

Street Furniture



**Australian  
Security Fencing**

*Protecting your interests*

The Bristorm Living Wall continues to utilise the Impeder technology at the core of their design to ensure the high performance is consistent throughout. Bristorm Living Wall is an effective counter terror measure but provides architects and site owners with an opportunity to continue their environmental policies across all aspects of their site and street scene.

The basic design is larger in comparison to the Bollards, Cycle Hoops and Planters, but can also provide a visual screen if privacy is required. The same simple drainage system is utilised to increase the functionality and also means minimal maintenance is required.

### Benefits

- > Core tested to PAS 68
- > Secured to any Bristorm Impeder bollard
- > Standard stainless steel finish
- > Aluminium brush, anodized aluminium or galvanised finish
- > **Shape and size of wall can be altered**
- > Effective yet simple drainage system
- > **Minimal maintenance**
- > Variety of plants can be incorporated to obtain desired look and feel



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## Great British Quality

All Security Street Furniture is developed at our UK factory. Visit [bristorm.com](http://bristorm.com) for more information or contact us directly at [info@bristorm.com](mailto:info@bristorm.com)



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**Bristorm** is the security division of Hill & Smith Ltd and is a member of the Hill & Smith Holdings Infrastructure Products Group.

Also members of the PSSA- Perimeter Security Suppliers Association- Bristorm are able to develop new and innovative systems that comply with the latest counter terror and high security standards, as well as aesthetic requirements illustrated within a design brief. Bristorm develop high quality and high performance systems throughout.

Need information on  
Counter Terror  
Street Furniture?

[▶ bristorm.com](http://bristorm.com)

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