

trueform

HOSTILE VEHICLE MITIGATION (HVM)

PROTECTIVE STREET FURNITURE



PROTECTING PEOPLE, PLACES
AND INFRASTRUCTURE FROM ATTACK



Protecting people, places and infrastructure from attack

The risk to pedestrians from Vehicle As a Weapon (VAW) attack remains a real possibility on our local high streets.

Trueform's' Hostile Vehicle Mitigation (HVM) product range has been tested as a protective vehicle barrier system, allowing the security measure to be hidden in plain sight, meaning your development can be made safe without having a detrimental effect on the aesthetic qualities of the space.

By offering a diverse range of Street Furniture products with integrated protective technology, Trueform provides a comprehensive solution to protect people, places and infrastructure without compromising the aesthetics of the surroundings.



Protecting People

The threat to individuals within a public space is at the forefront of consideration for the entire security and protection industry. The vulnerability of people within public spaces to hostile vehicles and accidental collision has never been a more major concern.



Protecting Places

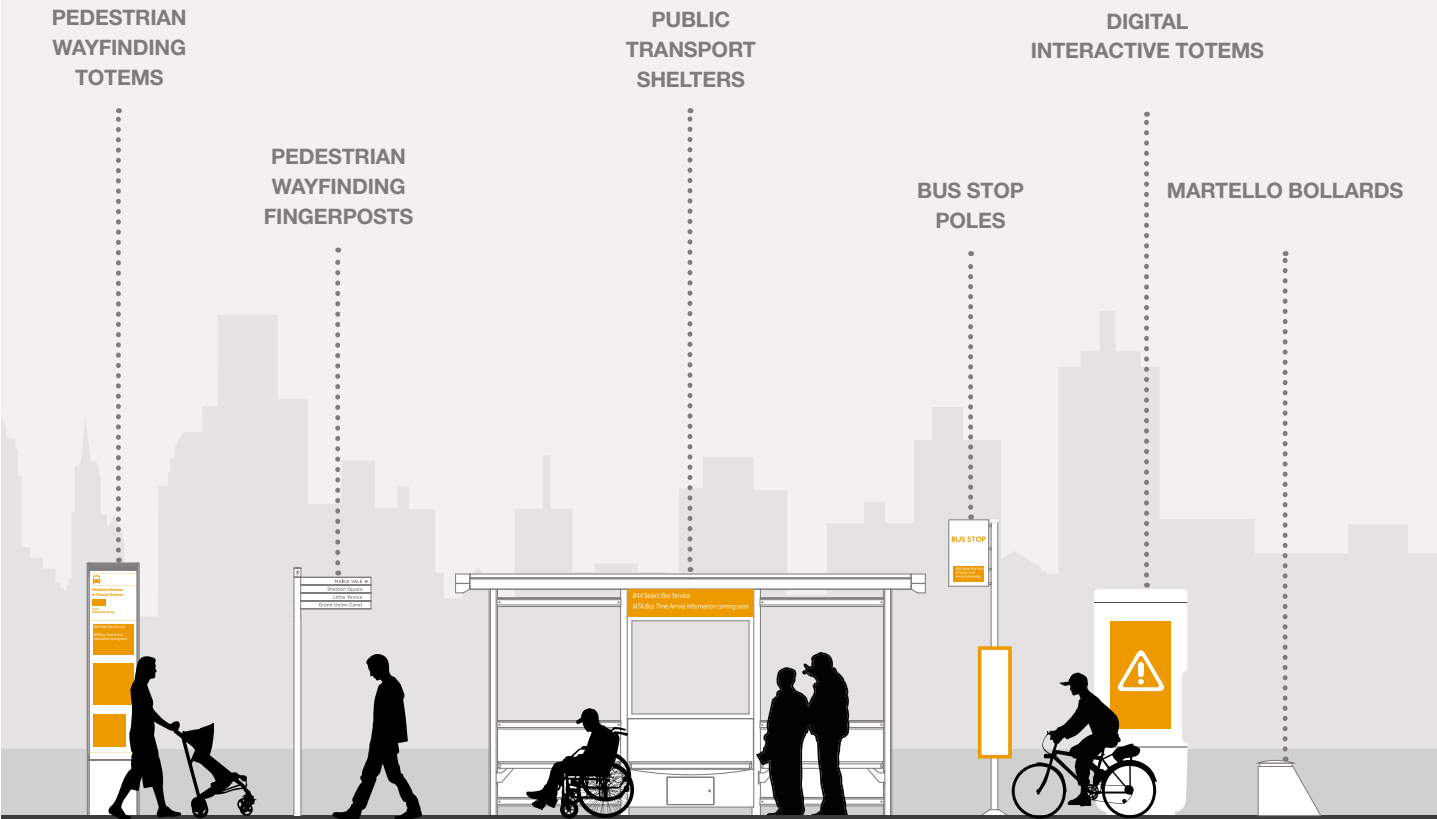
Crowded places remain an attractive target for terrorists who have demonstrated that they are likely to target places which are easily accessible and readily available. The challenge is to fully secure a public space without restricting the flow of pedestrian traffic or compromising the aesthetics of an area.



Protecting Infrastructure

The UK's national infrastructure is defined by the Government as: "those facilities, systems, sites and networks necessary for the functioning of the country and the delivery of the essential services upon which daily life in the UK depends". Therefore the protection of critical infrastructure is vital in maintaining the everyday operation of the country.

A complete product range designed to protect



A comprehensive range of street furniture products, impact tested to IWA:14

Our high performance structures are available in robust materials such as galvanised mild steel with stainless steel or anodised aluminium cladding.

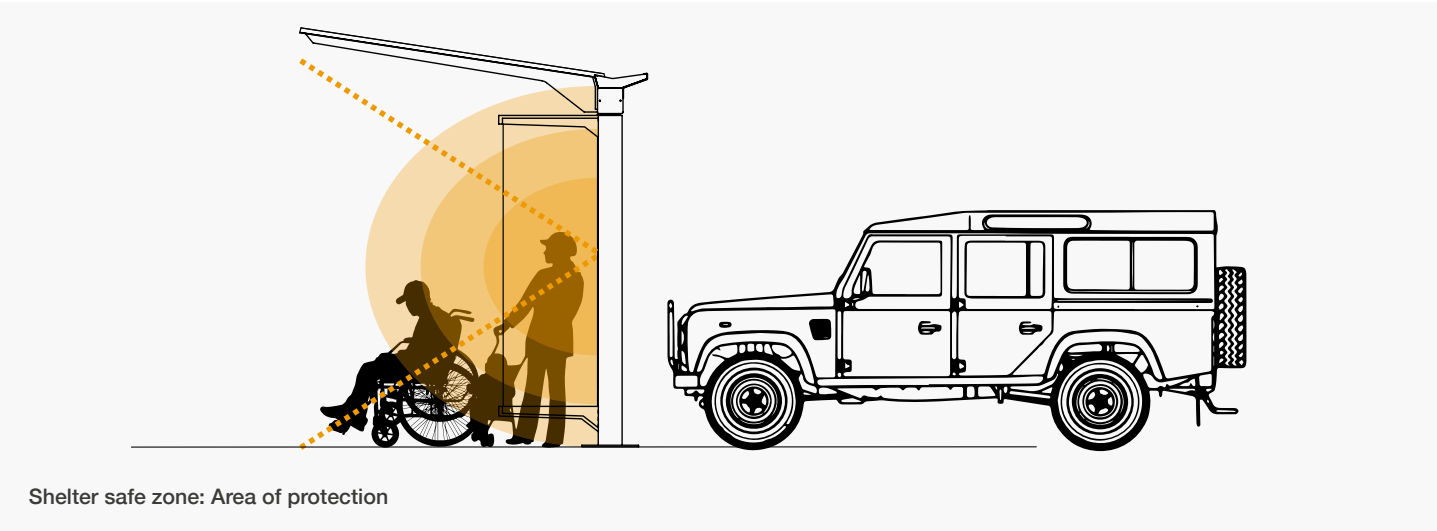
All of our products can be customised with a range of additional upgrades such as digital enhancements or sustainability features.

Impact tested to IWA:14

Case Study: Public transport shelter



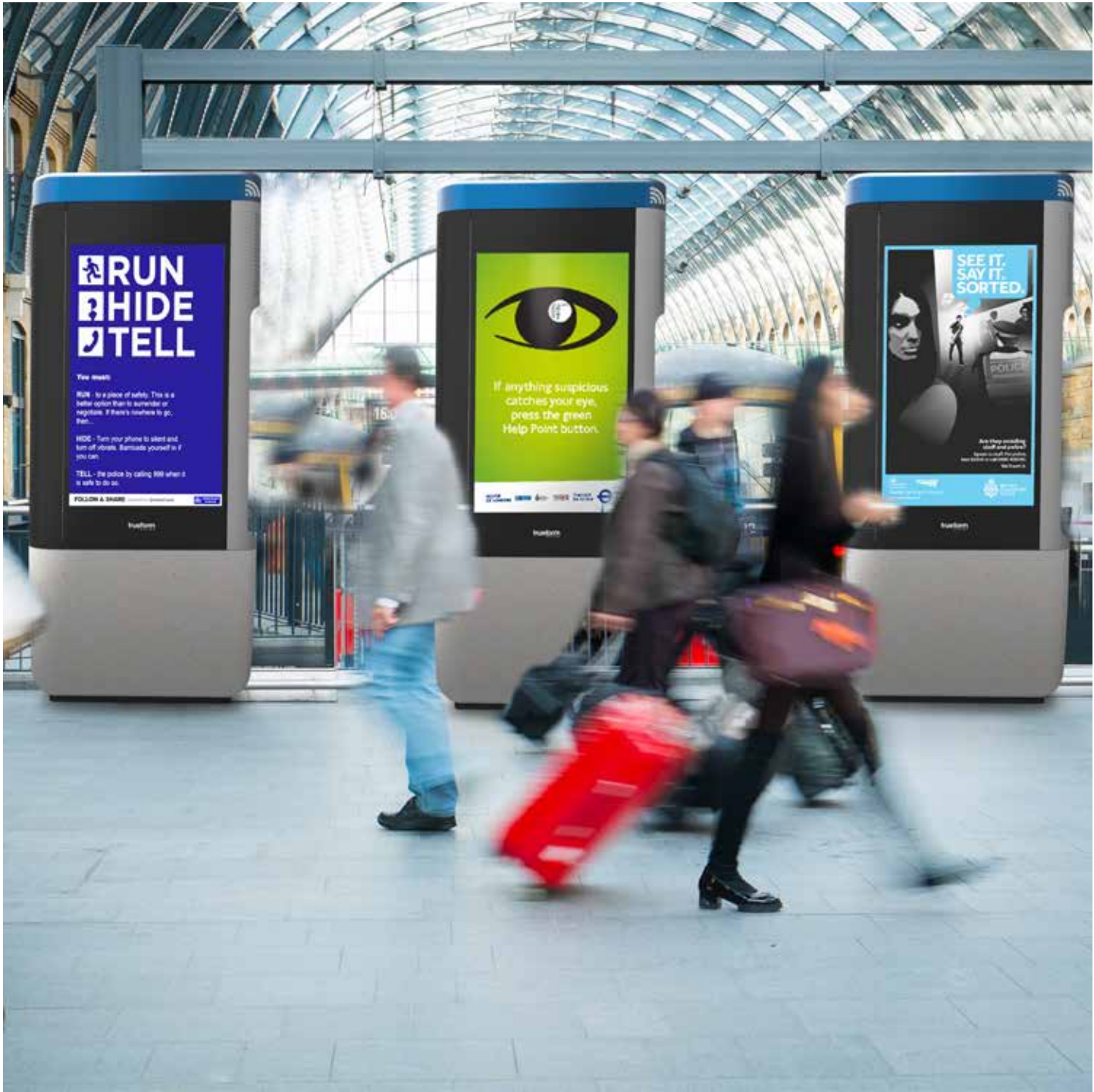
Vehicle travelling at 40mph. Trueform’s Resistance HVM shelter successfully brought the vehicle to a standstill with no penetration.



Trueform Resistance HVM Shelter Specification	
Size / Dimensions	<ul style="list-style-type: none">• H2960 x W4285 x D2180 (mm)
Engineering Constraints	<ul style="list-style-type: none">• Socketed item installed / removed for events (semi-permanent / temporary installations)• Small foundation footprint for minimal disruption• Installation in a single day, allowing for a quick rapid turnaround• Compliant with conservation policies• None to minimal maintenance• Structural elements can be clad/shrouded in many styles for different end users
Visual / Heritage	<ul style="list-style-type: none">• Robust framework material: galvanised mild steel, optional stainless steel and aluminium cladding• Finish options: powder coated, polished (stainless steel) or anodised (aluminium)
CPOS Requirements	<ul style="list-style-type: none">• Adheres to documentation: Section 17 Crime and Disorder Assessment and Crime Reduction & Operational Security
Maintenance	<ul style="list-style-type: none">• Proven design used worldwide• None to minimal maintenance• High performance structure in a range of robust materials: galvanised mild steel with stainless steel or anodised aluminium cladding• Modular design for repair / maintenance replacement parts• Tamper proof security fixings throughout
Compliance	<ul style="list-style-type: none">• International BS & ISO Standards
Additional Features	<ul style="list-style-type: none">• Cycle / micro mobility parking• Provision for seating and wayfinding• Digital enhancement<ul style="list-style-type: none">- Advertising display- Real time information- WiFi connectivity- Bluetooth enabled- Smart sensors: air pollution through to traffic monitoring- Damage reporting• Sustainability<ul style="list-style-type: none">- Solar powered- E-paper displays- Living wall / green roof

Counter Terror Wayfinding

Protecting people and property from terrorist attack



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|--|--------------------------|--|---------------------------|--|-------------------------|
| | SAFETY ANNOUNCEMENTS | | REAL TIME SECURITY ALERTS | | INTERACTIVE HELP POINT |
| | INFORMATION & ASSISTANCE | | VANDAL RESISTANT | | SMART SENSORS |
| | SAFER STREETS | | RUGGED ENCLOSURE | | VIBRANT DIGITAL DISPLAY |
| | INTERNET ENABLED | | CONNECTIVITY | | USB DEVICE CHARGING |

Features of protective street furniture



Protects the general public

The vulnerability of people within public spaces to hostile vehicles and accidental collision has never been a more major concern.



Protects crowded places

Including City / Town Centres, Shopping Centres, Leisure Venues, Visitor Attractions, Sports Stadia and Accident blackspots.



Protects the UK's national infrastructure

The protection of critical infrastructure is vital in maintaining the everyday operation of the country.



Bomb resistant shelter glazing

Specialist blast glazing and retention system provides maximum safety.



Fully DDA & ADA compliant

Providing optimum inclusivity to everyone.



Bespoke materials and finishes

Supplied in a range of elegant, robust materials and finishes to suit individual architectural requirements and to exacting customer requirements.



Impact tested to IWA:14

Our products have been successfully tested to the requirements of IWA, which is an international Standard for counter terrorism impact testing.



Stop vehicles being used as a weapon on attack

Deter would be intruders, whether these are terrorists or vehicle drivers.



Creates a safe distance from potential targets

Help create safe 'stand off distances' between hostile vehicles and potential targets.



Easy maintenance

Quick release, yet tamper proof features for rapid, cost effective maintenance.



Bespoke design options

Can be specified in various materials and configurations, to complement any surrounding area.



Custom colour & branding

Choose from a wide range of enclosure colours to suit your specific branding.



Prevents vehicle collisions

Prevent vehicle collision around accidental blackspots.



Robust & vandal resistant

High grade, vandal resistant materials, the Integra cycle shelter provides an easy-to-maintain and safe structure.



'Shock absorbing' glazing

A range of glazing materials and options are available, including the special 'shock absorbing' glazing retention system introduced by Trueform.



Solar energy solutions

Including courtesy lighting utilising latest energy efficient LED illumination technology.



Wide range of glazing materials

Including glass, polycarbonate, GRP & perforated mesh glazing printed directly to glass.



Future proofed designs

Our HVM products are ready to accept a wide range of digital technologies.

A range of design options

Trueform have a comprehensive 'off the shelf' range of innovative designs along with a custom design and build service to suit all customer requirements.



Flight Shelter



Flight Heritage Shelter



Flight Curved Shelter



Wayfinding Totem



Interchange Totem



Digital Wayfinding Totem



Gullwing Shelter



Fishergate Gullwing Shelter



Gullwing BRT Shelter



Wayfinding Fingerpost



Elite Bus Stop



Martello Bollard



Loughborough Gullwing Shelter



Gullwing Heritage Shelter



Metro Shelter

Why choose Trueform?

Trueform are the UK's and world's leading supplier of shelters and canopies. Established for over 44 years, we have provided over 150,000 products to towns and cities throughout the world.

We work in collaboration with towns, cities, transport authorities, governments & local authorities, together with transport consultants, architects, scheme designers and main contractors. We have a reputation for excellence, quality, reliability and value.

Operating internationally, Trueform hold contracts with major cities for the design, manufacture, installation and maintenance of premium quality, intelligent, on-street infrastructure for Public Transportation, Intelligent Mobility, Smart City, low, ultra-low and Zero Emission, E-Mobility, Clean-Tech, Digital Display and Digital Advertising.

Our product and hardware solutions are supported by comprehensive field support services, including installation, logistics, commissioning, project management, maintenance and remote monitoring.

Since formation in 1977, Trueform quickly established itself as a market leader, providing vital, on-street public elements and infrastructure for commuters, travellers and the public.

Trueform has provided many of the World's largest and most progressive cities and has extensive knowledge and international experience within the bus, rail, bus rapid transit, light rail metro, pedestrian wayfinding and air passenger transport sectors.

Mobility is the central basis of economic growth and prosperity in the globalised World. An effective, safe, reliable and progressive public transportation system provides accessibility and mobility to all, whilst reducing congestion, greenhouse gas emissions and our carbon footprint. Trueform provide intelligent public transport solutions to meet this requirement.

Trueform have a proven track record in the provision of integrated and coordinated transport solutions that attract travellers and encourage 'modal shift' by successfully transforming the travelling experience. This is based on a sound understanding of the travellers requirements – both now and projected into the future.

Contact our sales office on **020 8561 4959**, email us at **sales@trueform.com** or visit **www.trueform.com** for more information on any of our products