



# Hostile Vehicle Mitigation Public Transport Shelter

Impact tested to IWA 14-1:2013 Barrier V/1500[M1]/64/90:0.0



## 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 Resistance Hostile Vehicle Mitigation (HVM) shelter 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.



**PROTECTING  
THE HIGH  
STREET**



**STOP VEHICLE  
BEING USED  
AS A WEAPON  
OF ATTACK**



**CREATE A SAFE  
DISTANCE FROM  
POTENTIAL  
TARGETS**



**PREVENT VEHICLE  
COLLISION AROUND  
ACCIDENTAL  
BLACKSPOTS**



**MODULAR  
& FLEXIBLE  
DESIGN**

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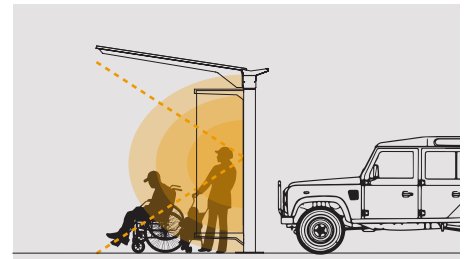
## Impact tested to IWA 14-1:2013 Barrier V/1500[M1]/64/90:0.0



Before impact: Vehicle approaching at 40mph



After impact: Vehicle disabled, shelter still in tact



Shelter safe zone: Area of protection

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** • H2960 x W4285 x D2180 (mm)

#### Engineering Constraints

- 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

- Robust framework material: galvanised mild steel, optional stainless steel and aluminium cladding
- Finish options: powder coated, polished (stainless steel) or anodised (aluminium)

#### CPOS Requirements

- Adheres to documentation: Section 17 Crime and Disorder Assessment and Crime Reduction & Operational Security

#### Maintenance

- 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

- International BS & ISO Standards

#### Additional Features

- Cycle / micro mobility parking
- Provision for seating and wayfinding
- Digital enhancement
  - Advertising display
  - Real time information
  - WiFi connectivity
  - Bluetooth enabled
  - Smart sensors: air pollution through to traffic monitoring
  - Damage reporting
- Sustainability
  - Solar powered
  - E-paper displays
  - Living wall / green roof

### Protecting people, places and infrastructure from attack



**HIGH STREETS  
& SHOPPING CENTRES**



**AIRPORTS, BUS  
& TRAIN STATIONS**



**SPORTING EVENTS,  
VENUES & ARENAS**



**GOVERNMENT, PUBLIC &  
COMMERCIAL BUILDINGS**



**CONFERENCES,  
EXHIBITIONS & EVENTS**



**ACCIDENT  
BLACKSPOTS**

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