HOSTILE VEHICLE MITIGATION PRODUCTS

At Jacksons we have a range of crash rated fencing and crash barriers for when a crash rated perimeter is required. They have been designed and engineered to meet the expressed needs of security specialists.

Our crash barriers are specifically designed to protect and prevent intrusion from moving vehicles. We have a range of crash barriers that can be used along road sides, car parks, warehouses and factories.

All available crash barriers have undergone rigorous testing, to the highest crash rate possible and are tailored to suit your individual needs.

CRASH RATED SHALLOW MOUNT ROAD BLOCKER

The Crash Rated Shallow Mount Road Blocker has been designed to prevent the threat of potential terrorist attacks where high security is required.

Crash tested at MIRA (Motor Industry Research Association) the test was a great success, passing 100% with '0' penetration and still operational after use. It is driven via a hydraulic 7.5Kw power pack with inverter/plc controls which requires a three phase supply.

- Hydraulic 7.5Kw power pack with inverter/plc controls which requires a three-phase supply
- High grade PFC and RHS
- Aluminium curtain, 3mm skirt
- Panels in 5 sections
- Easy removal on impact
- 3 phase supply 415 VAC PLC & inverter controlled
- Government sites: Shallow 400mm nominal foundations
- Raised position height at 1050mm
- Performance Classification: V/7500{N3}/80/90:0/24.6

TEST RESULTS

PAS 68 / K12 - 50mph / 80kph

DUTY CYCLE

100%

FINISHES

- Galvanised bottom frame
- Top section powder coated
- Also an anti-skid paint finish is applied to the top plate

LINEBACKER® PAS 68 CRASH FENCE

The Linebacker® PAS 68 Shallow Foundation is a cable type crash fence that has been successfully impact tested in accordance with BSI PAS 68:2010 to stop a 7.5 tonne vehicle travelling at 50 mph (80km/h). Its shallow foundations allow the fence system to be deployed in sites with utility congested substructures and underground services.

It is available in two versions either in all steel or concealed within a novel traditional timber post and rail fence design for covert applications. Linebacker® may be used as a stand-alone system or retrofitted to reinforce an existing security fence.

- PAS 68 Crash Fence certified to stop a vehicle of 7.5 tonne mass travelling at 50mph (80km/h)
- All steel construction as standard, timber post and rail dressed Linebacker® PNR option available
- Cables do not require re-tensioning on-site after initial installation
- Stand-alone system for outer boundary protection or target hardening within a perimeter
- Maybe retrofitted to reinforce any existing security fence
- Shallow foundations

Approvals

- CPNI Approved for UK Government Use
- Secured by Design Preferred Specification

LINEBACKER SPECIFICATIONS

- Shallow foundations – 500mm foundations for intermediate posts and 750mm foundations for end strainers
- Linebacker PAS 68 uses a single unbroken length cable of galvanised cable
- Posts are hot dip galvanised to BS EN ISO14061
- Linebacker® PNR timber components are Jakcure® treated

BSI PAS 68 CLASSIFICATION

- BSI PAS 68:2010 V/500(N3)/80/90.7.3/21.4

PAS 68 BI FOLDING SPEED GATE

Our BSI PAS 68 compliant Bi-folding Speed Gate is designed to blend seamlessly with a building or existing site perimeter protection to provide discrete vehicular access control and effective hostile vehicle mitigation.

The gates feature an integrated vehicle arrestor system and are engineered for continuous operation, requiring a minimal foundation depth of 410mm nominal, making them ideally suited to shallow and or/utility congested substructures, and offer an opening/closing cycle of approximately 8 seconds.

Optional enhancements over and above the standard gate specifications are available to continue an existing security fencing specification or to incorporate security toppings.

- Clear opening of up to 4.2m maximum

Crash test results:

PAS 68:2010 (40 mph) V/ 7500[N2] /64/90:0.8/0.0

PAS 68:2010 (50 mph) V/ 7500[N3] /80/90:0.7/0.0

OPEN CYCLE TIME	8 - 10 seconds
DUTY CYCLE	100%
MAIN SUPPLY	230v 50Hz single phase 16amp

SAFETY

- CAT 3 safety edges and light curtain as standard
- Additional safety options by laser safety devices to protect risk zones

FINISHES

- Galvanised to BS EN 1461 as standard
- Galvanised and Powder coated to BS EN 13438
- Marine coat for installations within 500m of salt water or estuary

CRASH RATED MANUAL ARM BARRIER

The manually operated lifting barrier is a Hostile Vehicle Mitigation (HVM) solution, ideal for low volumes of traffic flow or where the access point is used infrequently.

The barrier has been physically impact tested independently a number of times, in accordance with PAS 68 using 7500kg N2 vehicle travelling at 48kph (30mph) by the Transport Research Laboratory (TRL) and MIRA Ltd.

Impact tests have included 3 metre, 4.5 metre and 6 metre clear width opening models of the barrier, providing physical protection to sites from extreme Vehicle Borne Improvised Explosive Device (VBIED) attack.

- Physically crash tested to PAS 68 criteria
- Manufactured from heavy gauge materials
- Manually operated
- Simple to install
- Strength and durability
- No power supply required

TECHNICAL DETAILS

Physical Dimensions	900mm H x 1800mm x 500mm H
Barrier Arm	6m max

Construction:

The arm catcher frames are fabricated from heavy steel sections, which are anchored into the foundations: they are designed to support the arm in the lowered position and to take a full impact load. The recess in the catchers prevents the boom from lifting when impacted. Outboard extensions inhibit the vehicle running up the catcher frame.

The arm is fabricated from heavy steel section clamped to a lift yoke which is designed to slip through its clamp in the event of a collision, to engage under the catcher frame recesses

Please Note:

The crash rated arm barrier is designed to be a manually operating rising gate and has been tested in accordance with BSI PAS 68:2010 impact test specifications for vehicle security barriers for full scale vehicle impact versus a 7.5 tonne N2 vehicle travelling at 48km/h, impacting centrally at 90° (head-on).

The barrier arrested and immobilised the impacting vehicle, resulting in 0m penetration and 0m dispersion of major debris beyond the rear of the barrier. The official BSI PAS 68:2010 classification for this barrier is:

4.5m model - V/7500[N2]/48/90:0/0

6m model - V/7500[N2]/48/90:0.3/0.0

IMPAKT DEFENDER - VEHICLE SECURITY BARRIER

The Impakt Defender is an IWA14 rated vehicle security barrier (VSB) designed to protect people, buildings and infrastructure from hostile vehicle attack. Requiring no foundations, the surface mounted system can be rapidly deployed as a temporary or permanent security measure, as part of a robust hostile vehicle mitigation (HVM) strategy.

Its unique shape, with its large footprint, has been specifically designed to block vehicles. Each 430kg, 1m x 1m x 1m solid rubber unit is connected by steel cables or rods, providing the flexibility to protect both entrance areas and site perimeters against hostile vehicle attack. The units can also be anchored to create a stronger physical barrier.

Manufactured from 100% recycled rubber bonded with polyurethane for strength, its tough construction enables the Impakt Defender to be installed almost anywhere, removed and used again and again.

APPROVALS

Successfully impact tested to IWA 14-1 specification, stopping a 7.2 tonne N2A lorry travelling at 48kph (30mph)

TECHNICAL INFORMATION

- Manufactured from 100% recycled rubber and polyurethane.
- Supplied complete with steel securing cables/rods and fixings.
- Size: 1000 x 1004 x 1004mm
- Weight: 430kg
- Connectivity: 20mm Ø Steel cables or 1 and 2m rods

Key Benefits

- A physical and visual security deterrent
- Excellent protection from vehicle borne attacks
- Jacksons fence systems can be integrated with the barrier to prevent unauthorised entry
- Unique design deforms to increase stopping performance
- Over 65% lighter than concrete solutions
- Modular design allows protection of entrances and perimeters
- Easy to install, remove and relocate
- Suitable for all types of sites
- Can be installed in a straight line or on a curve
- Available for lease and purchase