



DOS K12/PAS 68 HCR4M1200RB (30)



Overview

Tested at the Transport Research Laboratory and MIRA, all three tests were undertaken against Heald's 1200 mm raise Roadblocker. The first test was conducted using an empty 18 tonner (weighing 7.5 tonnes) travelling at 80 kph (50 mph). The Roadblocker successfully stopped the vehicle with nil penetration and conformed to BSI PAS 68: 2007 (Specification For Vehicle Security Barriers). Following replacement of the front radius plate, another test was undertaken against the same Roadblocker, this time with an American Truck travelling at 80 kph (50mph). Again the Roadblocker brought the vehicle to a complete halt with nil penetration and passed the American Department of State K12 rating (6.8 tonnes @ 80 kph/50mph). The Roadblocker was pitted a third time against a 30 tonne truck, travelling at 50 mph and proved successful yet again, with the Roadblocker continuing normal operation following the impact.

The HCR4M1200RB(30) is the only Roadblocker of its kind to hold the highest specification for PAS 68:2007 (at 30 tonnes) and a DOS K12 certification. The HCR4M1200RB also holds a Secured By Design licence from ACPO (Association of Chief Police Officers).

Description

The key to Heald's complete success in all three tests lie in the unique design of the Roadblocker. Specially constructed integral impact absorbers and a sacrificial front radius plate are incorporated into the heavy duty construction, these draw most of the impact away from the main body of the blocker helping to disperse the energy within the front face and so alleviate impact damage to the surrounding outer fabrication and concrete foundation. The front radius plate can be quickly and easily replaced whilst the Roadblocker is in the raised position, thus maintaining site security at all times.

No reinforcing of concrete is necessary and no pre-casting of the pit is required, enabling fitting to be completed quickly and efficiently (usually within one day under normal conditions).

The Roadblocker is hot dip galvanised to BS EN ISO 1461.

The cabinet is manufactured from 3mm Zintec sheet (900mm wide x 1200mm high x 600mm deep) and powder coated grey or white as standard (alternative colours on request). The cabinet is fitted with an integral lock.

Mechanism

The Roadblocker is operated via a heavy duty hydraulic power pack housed within the cabinet complete with a programmable control system with visual status. Various access controls are available to operate the Roadblocker. Available with the option of an accumulator and push button for Emergency Fast Operation.

The optimum recommended distance from Power pack to Roadblocker is 10m (33ft). Power pack includes:

Motor Unit
Hydraulic Pump
20 litre capacity oil tank

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Technical Specifications

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| Height: | Total raised height 1165mm. |
| Width: | 4000mm. A 4 metre Roadblocker will secure an opening of 6.2 metres. |
| Composition: | 10mm Steel plate reinforced to evenly distribute any impact. Internal crash plate supported by sectional steel mid plates covered with sacrificial front radius plate, incorporating impact absorption bars. |
| Cabinet: | 1200mm high x 900mm wide x 600mm deep. 3mm Zintec Steel sheet finished in grey (alternative colours on request). |
| Mechanism: | 4 kW motor. Immersed pump. Extra Heavy Duty solenoid valves (110VDC) for reliability and safety in operation. Approximate running pressure 25 bar. Approximate maximum running pressure 80 bar. |
| Power failure: | Option of remaining raised or lowered in the event of power failure. |
| Interface: | Can interface with most access systems. |
| Duty Cycle: | 100%. |
| Normal operating speed: | 4-7 seconds. |
| Accumulator speed: | 1.5 seconds. (All times are approximate). |
| Power: | 415v/3 ph/50 Hz. Alternatively, power to suit customer requirements. |
| PLC Control Voltage: | 110vAC. |
| PLC Logic Voltage: | 24vDC. |
| Optional Accessories: | Traffic lights, intercom, transponder, transmitter, keypad, token/coin acceptors, proximity card, push button etc. |
| EFO (Emergency Fast Operation): | 6 Litre Accumulator. |
| Safety/Security: | Option of inductive loops and photo beam. Security cover to prevent unauthorised access to hydraulic systems. |
| Manufacture: | All manufacturing exceeds BS 6571, all welding to BS 4872. Heavy duty steel durbar top plate 10mm thick. Hot Dip Galvanised to BS EN ISO 1461. Primed and painted black and yellow. |
| Installation: | Does not require pre-cast or reinforced concrete pit. |
| Delivery: | The Roadblocker is delivered in two elements - Blocker and cabinet. |
| Axle loadings: | Will withstand any road going vehicle (in house certificate). |
| Crash Rating: | PAS 68: 2007 - 7.5 tonnes @ 80 kph/50 mph with nil penetration. DOS K12 - 6.8 tonnes @ 80 kph/50 mph. PAS 68 -V1 ROADBLOCKER 30000 80:0 6.85 |



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Due to a program of continuous development, specifications may be subject to change without notice.