



TECHNICAL SPECIFICATION

CSG 10503

Crash Tested Pit Mounted Road Blocker



PRODUCT OVERVIEW

Tread plates of 10mm thick (over plain) durbar tread plate.

One piece 3mm thick sheet steel skirt.

Optional trimmer frames are 70x70 or 80x80 hot dip galvanised angle sections – fully spragged around periphery for maximum holding.

Riser frames are of heavy gauge RHS sections fully welded.

Base frames are of heavy duty RHS sections designed to withstand axle weights of 15 tonne.

Available in a number of widths from 2000mm to 4000mm.

CONTACT US

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CRASH TESTING

The CSG 10503 (625mm high x 3000mm wide) full depth blocker has been tested at the Motor Industry Research Association (MIRA), Nuneaton, Warwickshire.

The test was carried out using an Iveco (Ford) Cargo rigid truck ballasted to a test weight of 7,600kg and impacted the blocker at 82.1 km/hr.

Test rating: PAS 68: 2010 V7500 (N2)/80/90:0/25*

* V/[vehicle class]test weight/speed[kmh]/ angle:penetration/dispersion).

OPERATION

- The blocker is powered by a hydraulic power pack which can be configured to suit particular requirements. Normal operating time would be 5 seconds but faster operations can be achieved with larger hydraulic packs or accumulators.
- As final back-up a hand pump is supplied as standard within the power pack to raise the blocker and a manual release to lower.
- Enclosures, controls and hydraulic power packs can be designed to operate multiple blocker systems.

OPTIONS

- Accumulators can be incorporated to provide fast emergency operation and/or limited operation during a power failure.
- Uninterruptible Power Supplies (UPS) can be incorporated into the system as a better means of covering electrical power failures. These can be sized for normal operating speed only but will produce far more operations than is practical with an accumulator.

INSTALLATION

Two methods of installation can be adopted:

- Installed into a concrete pit constructed to CSG foundation drawings. Typically this steel reinforced cast concrete pit consists 300mm thick walls on a 200mm thick base with drainage and service ducts. The optional trimmer frame forms the inside edge and includes fixing holes for shuttering to be attached.

Alternatively:

- The blocker can be supplied within an integral steel tank. This simplifies the installation in that the whole assembly can be lowered into the excavated hole. Service ducts are connected to the tank and reinforcing positioned to strengthen the walls. After final levelling and adjustments, the concrete can be poured in two stages over a 2-3 day period.

CONTROLS

Controls are Programmable Logic Controller (PLC) based and therefore are very flexible and can be configured to suit customers' requirements. Optional features can include conventional push button station or Human-Machine Interface (HMI) terminals. Single or multiple control positions and all forms of access control can be utilised.

DIMENSIONS

Rise height: Minimum 625mm (@35°).

Riser plate – back to front: 1200mm.

Width nominal: 3000mm.

Foundation depth from road level: 1000mm approx.

Typical area required for foundation for 3metre wide riser: 4200mm wide x 3300mm.

Skirt: One piece 3mm thick sheet steel skirt.

SAFETY

Unlike some crash rated blockers on the market the conventional one piece full depth skirt affords substantial pedestrian safety. There are many inherently dangerous designs without skirts in current use, and still being sold, which are the subject of debate as to whether they comply with BSI/EN standards and current health and safety legislation. Many customers find themselves having to provide pedestrian protection by positioning these blockers behind gates and full height barriers etc to attain pedestrian protection. Additional protection can be provided using photo beam systems tailored to the particular application. It is recommended that the blocker is installed with vehicle detection loop systems.

ELECTRICAL SUPPLY

Supply 400 volt 50hz three phase (TP&N) 10amps is the preferred supply, but single phase can be accommodated.

Please contact us to discuss your power supply requirements.



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