



TECHNICAL SPECIFICATION

CSG 10506

Crash Tested Shallow Depth Road Blocker



PRODUCT OVERVIEW

The CSG 10506 is manufactured from heavy duty steel sections (fully welded). Tread plates are of 10mm thick (over plain) durbar and spragged on three faces with 400mm long heavy duty reaction buttresses on rear face at 560mm centres. Our Road Blocker has been designed for axle weights of 15 tonne and multiple widths are available to suit particular applications.

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

CONTACT US

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CRASH TESTING

The CSG model 10506 Shallow 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 7,755kg and impacted the blocker at 80.8 km/hr. Under requirements contained within British Standards for vehicle security barriers, the test achieved a classification of Retractable blocker.

Test rating: PAS 68: 2010 V/7500 (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 6 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 blockers 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 failure. 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:

- In newly constructed building slabs, ramps and roadways a pocket can be incorporated during construction 215mm deep x 4200mm wide x 3300mm suitably reinforced with tie hoops and incorporating drainage and service ducts. The blocker can then be installed at a later date.

Alternatively:

- For installation into existing roadways etc an excavation to 450mm deep will be required typically 4200 wide x 3300mm. The blocker can then be positioned and adjusted to the required height and service ducts routed through.

DIMENSIONS

Rise height: Minimum 750mm (@30°)

Riser plate: back to front: 1600mm

Width nominal: 3000mm (actual 2970mm)

Outside dimensions of base frame at road:
3180mm wide (across road) x 1940mm

Total depth of base frame below road level: 215mm

Foundation depth from road level: 450mm

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

Skirt: Fully folding 4-sections

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 a conventional push button station or Human-Machine Interface (HMI) terminals. Single or multiple control positions and all forms of access control can be utilised.

SAFETY

Although the blocker only requires a relatively shallow foundation to accommodate the 215mm height of the base frame, the unique folding skirt provides the same degree of protection as a conventional solid skirted blocker requiring foundations of some two and a half times deeper.

Thus, in many cases the 10506 avoids the necessity to re-route underground services. 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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