

# TECHNICAL SPECIFICATION

## CSG 10506 Shallow Pit Depth Road Blockers



cova security gates ltd

INVENTION NOT CONVENTION



### CONSTRUCTION

- Manufactured from heavy duty steel sections fully welded
- Tread plates are of 10mm thick (over plain) durbar
- Spragged on three faces with 400mm long heavy duty reaction buttresses on rear face at 560mm centres
- The Road Blocker has been designed for axle weights of 15 tonne
- Other widths available to suit particular applications

### 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.

### 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, PAS 68:2010 the test achieved a classification of Retractable blocker V/7500 (N2)/80/90:0/25.

### DIMENSIONS

**Rise height:**  
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

## 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.
- Accumulators can be incorporated to provide fast emergency operation and/or limited operation during a power failure.
- 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.
- 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.
- The hydraulic cylinders can incorporate a locking device which will ensure that even if the hydraulic hoses are severed the riser plate remains in the attack position.
- Enclosures, controls and hydraulic power packs can be designed to operate multiple blockers systems.

## 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.

## ELECTRICAL

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

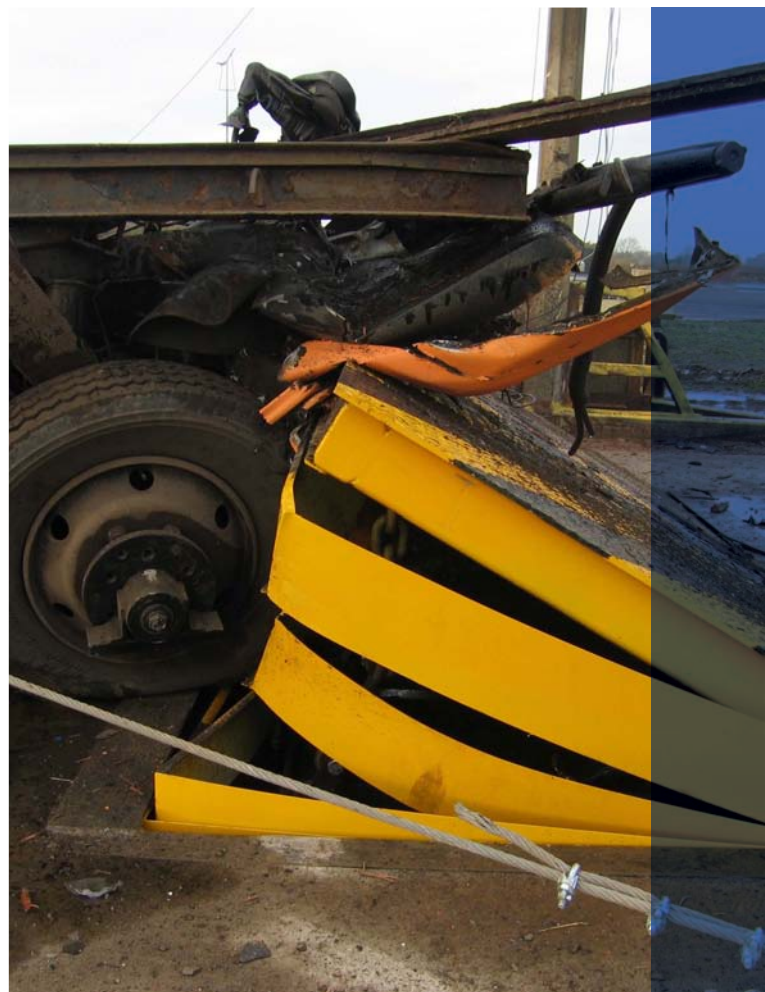
## INSTALLATION

Two methods of installation can be adopted:-

- 1 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 using chemical bolt fixings and finally grouted in to FFL.

Alternatively:

- 2 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 with a sub-frame attached. The level of the blocker can then be adjusted to the required height and service ducts routed through.



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**Shallow Pit Depth**  
**Road Blockers**

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