

## **CSG 10503**

### **Crash Tested Full Depth Road Blocker**



#### **CONTACT US**

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#### **PRODUCT OVERVIEW**

The CSG 10503 is the only product of its kind to have reduced the severity of a real life suicide bomber terrorist attack (FCO, Istanbul, 2003).

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

#### **DIMENSIONS**

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

Rise Height: Minimum 625mm (@35°)

Riser Plate (back to front): 1200mm

Width Nominal: 3000mm

Foundation Depth (from road level): 1000mm approx

Skirt: One piece 3mm thick sheet steel skirt

#### **ELECTRICAL SUPPLY**

Mains Supply: 400V 50Hz three phase rated @ 10 Amp

#### **PAS 68 CRASH TESTING**

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 82.1km/hr.

Test Rating: PAS 68: 2005 V7500 (N2)/80/90:0/25\*

#### **RESULTS TABLE**

<b>Vehicle Test Weight:</b>	<b>7500kg</b>
<b>Vehicle Class:</b>	<b>N2</b>
<b>Vehicle Speed mp/h:</b>	<b>50</b>
<b>Vehicle Speed km/h:</b>	<b>80</b>
<b>Vehicle Angle:</b>	<b>90</b>
<b>Vehicle Penetration:</b>	<b>0.0</b>
<b>Dispersion Distance:</b>	<b>25</b>

## OPERATING TIME

Raise Speed: 4 to 6 seconds

Emergency Fast Raise (EFO): 1 to 2 seconds

Lower Speed: Gravity fall

## CONTROL

- PLC based control system
- Hydraulic power unit (HPU)
- Manual hand pump for manual operation
- Operational Usage: 100% duty cycle

## SAFETY

Unlike some crash rated blockers on the market the conventional one piece full depth skirt affords substantial pedestrian safety.

It is recommended that either a laser scanner or vehicle detection road loop system is installed with the road blocker.

## OPTIONS

Accumulators can be incorporated to provide emergency fast operation and/or limited operation during power failure when combined with a 24VDC UPS.

## 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.



**If required, please contact CSG for a bespoke solution.**

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