

# MCB //

Crash Tested  
Mobile Crash Barrier



**PRECISION  
FABRICATORS (S) PTE LTD**

*Design & Manufacture in Singapore*

## Product Data Sheet

**CRASH TESTED TO IWA 14-1 : 2013  
V7200 [N2A] / 48 / 90 : 6.9**



**MCB //** is a new generation of portable barrier system that is designed to meet the growing hostile vehicle threats.

It is designed and built in Singapore, tested in Horiba Mira, UK. With its patented stopping mechanism using energy transfer rather than mere heavy mass, **MCB //** is tested to stop a 7200kg aggressor vehicle travelling at 48km/h within the ASTM A2656 M30 / P2 requirement - a first in its class in the world!!

The barrier can still function after the crash test! (ask for the video)

Unique Features of **MCB //**:

- Design for "lift and place"
- Design to function in locations where there are no power supply
- No excavation / road preparation needed
- Ready to operate once it is lifted off the truck within 15 minutes

**Making you safe**

## CRASH TEST CERTIFICATION

**Test Certification: IWA 14-1 : 2013 - Blocker: V7200 (N2A) / 48 / 90 : 6.9 \***

(\*Impact Type / Vehicle Mass (Class) / Impact Speed / Impact Angle / Penetration)

The first **Made in Singapore** barrier system to crash test at a internationally recognised test site, at Motor Industry Research Association (HORIBA MIRA), in UK. The test was carried out using an IVECO (Ford) Cargo rigid truck ballasted to a test weight of 7.2 ton and impacted the blocker at 48km/h. The penetration distance, measured from the front face of the blocker plate was **6.9 m**.

This is the **first portable system IN THE WORLD** that is able to achieve the shortest penetration distance as stipulated for equivalent test performed under the ASTM F2656-15 standard of M30 / P2.

\*Bolt down design is available

## POWER SUPPLY

- **MCB //** is powered by 2x DC batteries so it can be operated even in remote locations or locations where there are no direct power supply.
- It can be charged via a single phase 230VAC power supply, which is easily available at most locations.

## OPERATION

- The system is powered by a hydraulic power pack, which will raise the main barrier plate in 4-6 second.
- The Emergency or EFO operation mode can raise the blocker in under 2 second.
- Manual mode using hand pump is built-in as a back-up in the event of hydraulic or controller failure. This is a simple 2-step operation in the event you need to lower the main barrier plate.

## SAFETY

- Through-beam sensor is installed both at the entrance as well as exit of the barrier.
- Red / Green traffic light system can be adjusted for front or rear facing per vehicle approach.

## DIMENSIONS

Model Name	Overall dimension (mm)	Clear opening (mm)	Width of system (mm)	Height of main plate when fully raised (mm)	Weight of system (kg)
MCB // 3700	4900	3700	1300	700	6000
MCB // 4700	5900	4700	1300	700	6500

## CONTROLS

Industrial PC grade (IPC) controller with smart sensor is very robust and allows us to be flexible with inputs and outputs. It can be configured to suit different operation requirements. Data loggers can also be added (optional) for customers who need a history of the activities.

## OPTIONS

- Automatic car park access system such as card reader and/or transponder can be configured
- Ground loop



# MCB // - Crash Tested Mobile Crash Barrier

## Fast & easy deployment using Lorry Crane



**Test Report - Commercial in Confidence**  
**R0027 Precision Fabricators Pte Ltd MCBII Road Blocker**

Test Laboratory	HORIBA MIRA Ltd
Date of Report	29/09/2016
Client	Precision Fabricators (S) Pte Ltd
Test Item	MCBII Road Blocker
Date of Test	13/09/2016

Test Type	Vehicle Impact
Product Rating	IWA 14-1:2013 Blocker V/7200[N2A]/48/90:6.9



### **PRECISION FABRICATORS (S) PTE LTD**

12 Penjuru Close, Singapore 608615

6266 2366 / 9665 6798

[inquiry@precisionfab.com.sg](mailto:inquiry@precisionfab.com.sg)

[www.precisionfab.com.sg](http://www.precisionfab.com.sg)



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