

Scheme - Network Rail Great Western Rail Upgrade
Contractor - Vinci Taylor Woodrow

M.A.S.S.



mass
MULTI APPLICATIONAL SAFETY SYSTEM

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**SAFETY IS
OUR BUSINESS**

Great Western Choose M.A.S.S.



Taylor Woodrow, the Civil Engineering division of Vinci and main contractor for the Network Rail Great Western rail upgrade, chose Asset's M.A.S.S., Multi Application Safety System, to be track-side with them to help meet and improve rail side work safety.

The Filton Bank section between Bristol Parkway and Bristol Temple Meads is now well underway with work being undertaken at various sites along the five-mile route in preparation to increase the number of rail lines from two to four, and eventually include electrification. New Hitachi Super Express bi-mode electro-diesel trains are being introduced between London, South Wales and the South West increasing passenger capacity by an estimated 15% at peak times, whilst reducing travel times to these regions. The infrastructure project will also enable track maintenance to be carried out without disrupting services.

Vinci Taylor Woodrow has a strict health and safety strategy where all staff and contractors are encouraged to 'Step Up' to improve site safety through everyone's participation. Committed to improve work performance through preventative health and safety management, all works from designs to implementation, are thoroughly planned to identify and minimise risks. With staff and plant machinery working close to high-speed trains on this stretch of rail, line side segregation of trains, people and

plant was required. The introduction of M.A.S.S. barrier with the added steel Pedestrian Guard, two-metres from the rail line, enabled the creation of a high street environment with a designated walkway segregating pedestrian movement from plant works and the rail line. Taylor Woodrow required extra hauling road space alongside the track due to the complexities of the job and narrow work area. M.A.S.S. easily provided this extra safety working width. The M.A.S.S. steel base unit is 150cm long x 50cm wide and weighs 55kg with each unit being linked together via the Pedestrian Guard extended panel pins. Galvanized and white powder coated, the units are extremely quick and easy to install due to its plug-in sections.

Pedestrian Guard panels are secured together with simple clamp plates to create a continuous safety barrier. The free-standing steel base units and Pedestrian Guard barrier are wind resistant, remaining solid and secure from the constant blast of high-speed trains passing close by. The nature of its design allows M.A.S.S. to incorporate sweeping curves, and works access points to be clearly visible.

Requiring only two men to lift and install each base unit, short lengths of M.A.S.S. are easily repositioned to new sites as work progresses, ensuring it plays a pivotal role in the 'Step Up' health and safety strategy.



M.A.S.S. helps Vinci Taylor Woodrow to improve site safety inline with 'Step Up.'

M.A.S.S. 1 - A high visibility safety solution and ensures a stable secure connection. It is the basis of the M.A.S.S. system and its versatility allows it to be used in many applications throughout Europe.

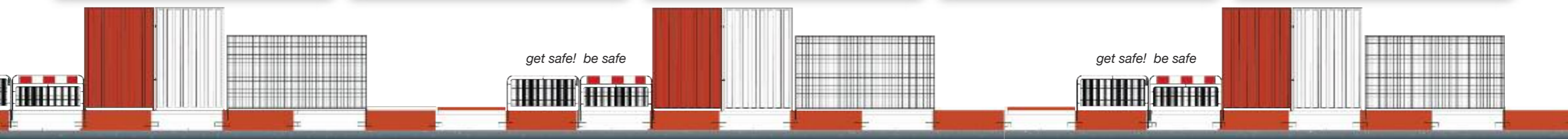
Fully Tested to T2W5

M.A.S.S. Siteguard - This is an anti-climb, galvanised mesh fencing. M.A.S.S. Siteguard offers high security for the site, workers and equipment. Gates are also available.

M.A.S.S. Screenguard - A hoarding panel for use on work-sites where privacy is required. The high steel screen offers security combined with easy assembly in a range of situations.

M.A.S.S. Pedestrian Guard - A development of the M.A.S.S. 1 vehicle restraint system which is tested to current European Standards and is a cost-effective solution to improving public safety.

M.A.S.S. Visirail - This product combines the benefits of M.A.S.S. Pedestrian Guard with a high visibility steel security rail. Complying with chapter 8 of the 'Traffic Sign Manual', M.A.S.S. Visirail has minimal wind loading and is vandal-proof.



Visirail Screenguard Siteguard M.A.S.S. 1 Pedestrian Guard Screenguard Siteguard M.A.S.S. 1 Visirail Screenguard Siteguard

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What is M.A.S.S. made of ?

Hot dipped galvanized steel and powder coated sections which stand firm and upright. Weighing 50 kg, each section is easily positioned and when linked together withstands vandal attacks.

What makes M.A.S.S. safe ?

Roll-on and roll-off stability uses the weight of the errant vehicle to stabilise the barrier at its base should a vehicle impact occur. The vehicle is then redirected back onto the roadway away from public or work zones.

Non-permanent fixing

The high visibility M.A.S.S. base units are mounted unfixed, with an anchorage at the terminal sections only. Terminal anchorage is achieved with a steel buffer filled with sandbags. No coring or drilling is necessary. When an errant vehicle drives onto the base of the system, it helps to stabilise the barrier during impact.

Simple installation

Individual base units are 150 cm long x 50 cm wide x 42 cm high and weigh 50 kg. Each unit links together via vertical pins. Assembly, dismantling and repositioning requires minimal time, allowing maximum safety together with minimum traffic flow distribution.

Drawings and advice

We offer our knowledge and expertise on the design of many temporary barrier applications and will always consider solutions to unusual applications. Please contact us for free advice.

Increased pedestrian safety

- Anti-vandalism design
- Accommodates 90° bends
- Wind resistant
- High visibility
- Anti-climb fencing
- Simple assembly
- M.A.S.S. 1 is fully tested to T2W5



Visit our website

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