



## BG800® | PORTABLE STEEL BARRIER

- N2 W2 ONLY 200MM DEFLECTION AT 70MPH SAVE UP TO 800MM OF WORK ZONE
- UNIQUE STEPPED PROFILE WITH NARROW FOOTPRINT, ONLY 540MM
- LIGHTWEIGHT AND QUICK INSTALL - 90KGS PER METRE, 300M PER HOUR
- 6 & 12M SECTIONS AVAILABLE - 216M OF W2 PERFORMANCE ON A SINGLE TRUCK

BG800® portable steel barrier is the latest in road barrier technology, designed to protect both motorists and construction workers. Rigorously tested to meet the highest demands throughout the world, BG800® has achieved the HIGHEST PERFORMANCE levels of any portable steel barrier for EN1317 – achieving TL-3, TL-4, N2 and H2 criteria.



# BG800® | N2 W2 LOW DEFLECTION PORTABLE STEEL BARRIER

Its unique stepped profile has proven to reduce damage to both vehicle and barrier during impact, minimising the need for repair or replacement. During impact, BG800® provides an extremely shallow exit angle for the vehicle, minimising the risk of secondary accidents.

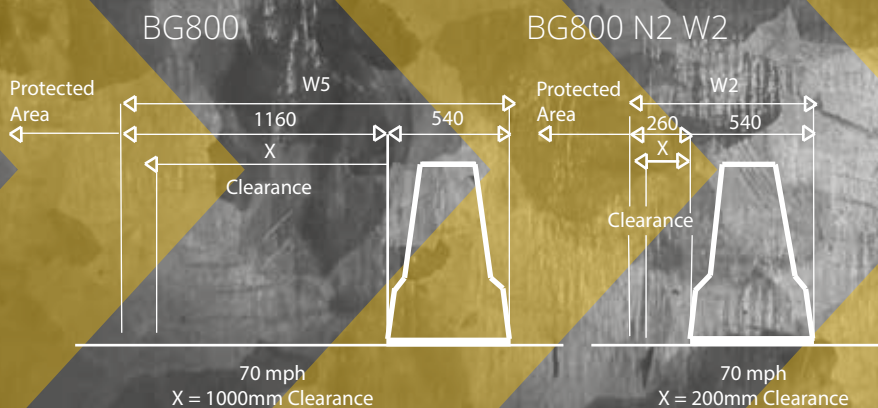
BG800's galvanised steel structure offers an expected

LIFE CYCLE OF 25 YEARS and with its exceptional durability, the need for replacement through handling or impact damage, unlike similar portable barriers, is greatly reduced.

At only 90kg per metre and with 6 or 12m modules available, up to 216m can be loaded on a truck bed, providing HIGH SAVINGS in transportation when

compared with similar concrete or steel systems. In addition, BG800's patented 'Quick-Link' connection allows for rapid installation, at speeds of up to 300m per hour with just three operatives – offering clients and contractors a vast saving in both time and labour resources when compared to conventional high performance portable systems.

## PHYSICAL SPECIFICATIONS



### BG800

|            |                            |
|------------|----------------------------|
| Length     | 6m   12m                   |
| Width      | 540mm                      |
| Height     | 800mm                      |
| Weight     | 90kg per metre             |
| Test Level | EN1317 TL-3, TL-4, N2 & H2 |

## FEATURES

### EASILY INSTALLED

Unique 'QuickLink' connector design allows installation of up to 300 metres of barrier per hour combined with delivery of up to 216m per load provides a competitive installation cost.

### VERSATILE

Available in 6 and 12 metre section lengths with special angle sections for tight radii.

### EASILY ACCESSED

Emergency access gate system available

### EASILY REPLACED

Impact damaged barrier sections are quickly and easily replaced

### LIGHT WEIGHT

Barrier only weighs 90kg/metre. The unique design of the 'QuickLink' connector provides a substantial Resistance to lateral impact forces, allowing a high strength / low weight construction.

## SPECIFICATIONS

### Normal Containment - N2

» Will Contain a 1,500kg car at 110km/h and 20°

### High Containment - H2

» Will Contain a 7,500kg truck at 50km/h and 45°

» Will Contain a 13,000kg truck at 50km/h and 45°

### Low Deflection

» 70 mph = 1 metre deflection (working width W5)

» 50 mph = 540mm deflection

### Minimum Deflection

» 70 mph = 200mm deflection (working width W2)

» 50 mph = 100mm deflection

# BG800® | VERSATILE MULTI-PURPOSE STEEL BARRIER

BG800 a versatile multi-purpose barrier that hosts a range of additional options to adapt the barrier for many specific requirements.

## BG800® Fence

BG800 with Fence is a roadside safety barrier with optional fence combinations.

Providing protection against rock fall and debris dispersion, as well as preventing pedestrian intrusion, it comes in many versions that are available from stock for rapid delivery & installation.



## FEATURES

- » Anti-climb fence up to 3.5m high
- » Vertical and cranked top posts available
- » Short anchors into shallow depth concrete pads or suitable existing pavement
- » Bespoke site specific design options available



## BG800® Wheeled

BG800® already the barrier of choice for many contractors, also offers the option of mobility. The system once installed, can be split into shorter sections by raising the barrier (lowering wheel-sets), disconnecting the QuickLink connection and moving the barrier either by manpower or with the assistance of an appropriate towing vehicle to a new location.



## FEATURES

- » Six metre sections connected by the enhanced 'QuickLink' connector
- » Highways England Approved providing EN1317 N2 W2 and H2 W8 performance
- » Ideal for repetitive regular maintenance operations where barrier lengths of 200-500m can be moved short distances



# BG800® | N2 W2 LOW DEFLECTION PORTABLE STEEL BARRIER

Highway Care BG800 used to protect the 500 strong workforce along one of the busiest motorways in the UK.



## SOLUTION SUMMARY

In the November 2011 autumn statement, the Chancellor announced that the M3 Junction 2 to 4a would be upgraded to a smart motorway as one of six growth schemes which would be prepared for construction before 2015.

The main construction works are being delivered by Balfour Beatty and commenced in January 2015 for 26 months.

Throughout the construction period together with the Highways England, Balfour Beatty would need to ensure the safety of the public and workforce; minimise the impact of work on the local communities, minimise delays to road users and do all possible to protect the local environment.

“Highway Care Ltd installed over 39km of their BG800 System for Balfour Beatty on the M3 Junction 2 – 4a Smart Motorway Scheme. The installation which included 44 crash cushions was carried out over 4 weeks of night shifts within lane closures. A mixture of hi-ab trailers and wheeled excavators were used to install the barrier which resulted in average outputs of 1500m per night.

The BG800 was used to protect the 500 strong workforce along one of the busiest motorways in the UK. The barrier enabled Balfour Beatty, on behalf of the Highways Agency, to replace and repair large sections of the drainage, the installation of gantries and the reconstruction of the hard shoulder to a standard that would allow 4 lane running from junction 2 – 4a.”

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