



ROAD ZIPPER® | MOVEABLE BARRIER FOR CONSTRUCTION APPLICATIONS

- RELOCATE BARRIER AT SPEEDS OF UP TO 7MPH
- ADD OR REMOVE LANES AS REQUIRED WHILST MAINTAINING POSITIVE PROTECTION
- MOVE 3KM IN 20 MINUTES
- LIMITS CONGESTION AT PEAK TIMES WHILE REDUCING CARBON FOOTPRINT

The Road Zipper® is a unique barrier system providing immense opportunities to contractors involved in major highway reconstruction, 'Smart Motorway' and road widening schemes. The system comprises a linked "chain" of concrete barrier sections, which can be raised slightly from the road surface and moved across the carriageway by a self propelled Transfer Vehicle.



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The Road Zipper®, from Lindsay Corporation, is a unique barrier system providing immense opportunities to contractors involved in major highway reconstruction, 'Smart Motorway' and road widening schemes. The system comprises a linked "chain" of concrete barrier sections, which can be raised slightly from the road surface and moved across the carriageway by a self propelled Transfer Vehicle. This allows a stretch of barrier located at the road edge to be moved into the

carriageway at the start and end of each day (or more times if required) providing a safe work zone during off peak hours which can be returned to traffic during peak flow periods. The Transfer Vehicle travels at up to 7mph and will move 3.2km (2 miles) of barrier in less than 20 minutes. During movement the Transfer Vehicle is protected by the barrier system. Because the road space can be "shared" it is possible to utilise more space for construction, increasing the

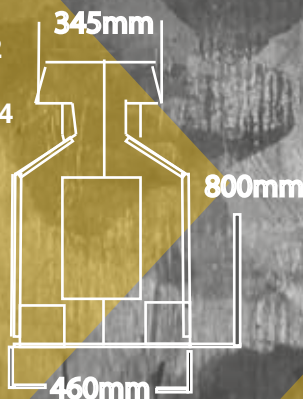
safety zone and allowing more intensive construction activity whilst maintaining or improving safety levels. Normally after impacts the barrier can be realigned with the Transfer Vehicle. If damage is severe, the damaged units can be quickly replaced. Construction periods can be reduced, allowing greater utilisation of manpower and machinery but maintaining safety performance.



PHYSICAL SPECIFICATIONS

Tested and Approved to BS EN1317-2 N2& H2 Containment
 UK Highway Agency approved N2, W4 & H2, W6
 NCHRP 350, Test Level 3 (100km/h).
 Maximum Deflection at TL3: 52 in. (1.3m)

Mass of each Barrier Element
 Approximately 646kg



Road Zipper®

Transfer Speed	7 mph (11km/h)
Roading Speed	20 mph (32km/h)
Lateral Transfer	Up to 5.5m per transfer
Transfer Time	3km in less than 20 minutes
Test Level	EN 1317 -2 - 4

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IMPROVES SAFETY

Workers and motorists have positive barrier protection at all times.

SPEEDS CONSTRUCTION

By combining or eliminating stages due to the larger work zone space, contractors can save months or even entire construction seasons.

BETTER QUALITY REPAIRS

More work zone space allows contractors to use larger, more efficient equipment, resulting in better quality repairs that last years longer.

REDUCES CONGESTION

QMB allows more lanes to be open for peak traffic at all times by reconfiguring the roadway in real time,

CREATES EFFICIENCIES

Dedicated haul lanes create safer, more efficient deliveries and material staging.

RAPID STAGE CHANGES

Moveable barrier reconfigures the road in minutes, It can take days to reposition miles of temporary concrete barrier.

ROAD WIDENING OR SHOULDER / MEDIAN REPAIR

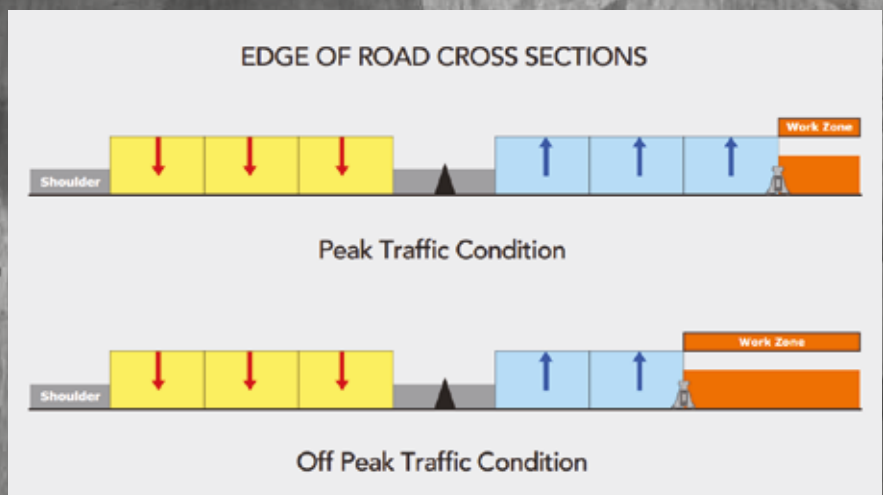
When working in the shoulder or central reservation, Road Zipper® allows the contractor to expand the work zone during off-peak traffic hours by taking one or more lanes from traffic. More work zone space can be used for dedicated haul lanes or allow for larger, more efficient equipment. These options help the contractor combine stages and accelerate construction for early job completion with better quality repair.



More room to work during off-peak



More lanes for traffic during peak



Road Zipper CONSTRUCTION CASE STUDIES

A21 Crawler Lane, Seven Oaks Bypass, UK

Type: Shoulder Reconstruction
Project Length: 2.5k

- » Reduced the schedule from 11 weeks to 9 week
- » Saved 1,169 man-hours compared to moving cones
- » Reduced user delay by 37,000 hours, saving £447,000 as reported by Highways England



Pesio Bridge, A6 Motorway, Italy

Type: Bridge Re-decking
Project Length: 1k

- » Pesio Bridge carries heavy weekend Tourist traffic
- » Original 1/1 traffic configuration created 8-hour 10km queues
- » Moveable barrier provided 2/1, 1/2 with no queue



MOVING PEOPLE

LOW DEFLECTION
NCHRP 350, TL3

SAFER

POSITIVE
PROTECTION

BS EN
1317-2
TL H2

RAPID
STAGE CHANGES

REUSABLE
ASSET

SMARTER

UTILISES EXISTING
CAPACITY

A FRACTION
OF THE COST OF NEW
CONSTRUCTION

TRANSFER TIME:
1 MILE IN 6 MINUTES

INCREASES
FUEL EFFICIENCY

IMPROVES
AIR QUALITY

REDUCES
TRAVEL TIME

FASTER
ACCELERATES
CONSTRUCTION

OPERATIONAL
IN MONTHS,
NOT YEARS

ZERO
CROSSOVER
FATALITIES

INCREASES
BRT
CAPACITY & USAGE



HIGHWAY CARE

+44 (0) 1622 734215 info@highwaycare.com

www.highwaycare.com