



Springvale Business & Industrial Park, Bilston, Wolverhampton WV14 0QL. UK  
T: +44 (0)1902 491100 F: +44 (0)1902 494080 E: sales@berrysystems.co.uk W: www.berrysystems.co.uk

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**LOCATION**

Coventry, UK

**DESCRIPTION**

Commercial MSCP

**CLIENT**

Coventry City Council

**CONTRACTOR**

Makers Construction

**OPERATOR**

CV ONE Ltd

**INSTALLED**

Berry Systems

**SYNOPSIS**

Vehicle and Pedestrian safety barriers to edge protection on all deck perimeters; lighting columns included in the 460 space MSCP



**BRITISH PARKING AWARD**  
**BEST REFURBISHMENT**

**hs** A member of the Hill & Smith  
Infrastructure Products Group



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## PROJECT DESCRIPTION

The Barracks multi-storey car park in Coventry was built over 50 years ago and, until recently, had been maintained on a fairly sporadic basis.

The council decided that a major refurbishment which would extend the life of the car park by another 10 years was the best solution in the current economic climate. The 460 spaces it provides to both shoppers and businesses in Coventry are a vital part of the local infrastructure.

The project was awarded to Makers Construction who in turn appointed Berry Systems to install new perimeter edge protection. For this, traditional "Armco" style barrier rails were mounted onto Berry Systems' unique RB1X spring steel buffers. These absorb impacts thereby reducing damage to both the barrier and any impacting vehicle. Twice force barriers (i.e. 300kN) were installed at aisle ends where vehicle speeds can be greater. These barriers feature post centres of only 800mm compared to the usual 1600mm.

Extensions were fitted to the buffers to support pedestrian handrails at 1100mm height. Finally anti-climb mesh from floor to handrail was also fitted to the front of the barriers to complete the requirements of EN 1991-1, Building Regulations and the latest recommendations of the Institution of Structural Engineers (ISE) and the Institute of Civil Engineers (ICE).

Upper deck lighting columns were protected by the installation Berry Systems' column protection units consisting of double warehouse rails mounted onto RB1 spring steel buffers that totally enclose the lighting columns behind impact absorbing barriers.



## SPECIFICATION

800m of Barrier Rail mounted on RB1X Spring Steel buffers with pedestrian handrail extension and anti-climb mesh - Standard Force (150kN)

100m of Barrier Rail mounted on RB1X Spring Steel buffers with pedestrian handrail extension and anti-climb mesh - Twice Force (300kN)

7 Column Protection Units.

THE LOOK YOU WANT  
 THE PROTECTION YOU NEED