

London Heathrow Airport



LOCATION:

London Heathrow Airport

CONTRACTOR:

Laing O'Rourke

SECTOR:

Private

INDUSTRY SECTOR:

Vehicle Restraint Systems

SYNOPSIS:

Perimeter and ramp barriers for new multi-storey car park incorporating very thin concrete decks.

PRODUCTS INSTALLED:

- 1189 metres of Berry Beam safety rail mounted onto RB1X 100 x 14 Spring Steel Buffers with integral handrail and anti-climb mesh
- 725 metres of Open Box Beam safety rail mounted onto RB1X 100 x 20 Spring Steel Buffers with integral handrail and anti-climb mesh

Berry

SYSTEMS

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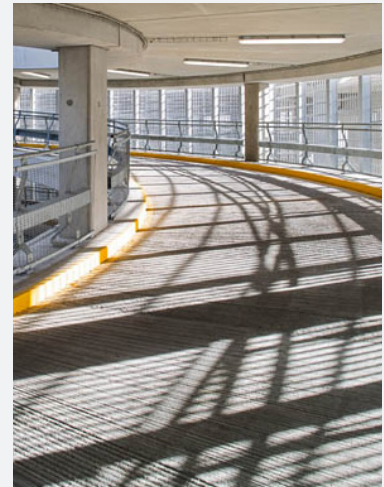
Berry barriers protect new Heathrow terminal 2 multi-storey car park.

A revised design for the new Heathrow Terminal 2 multi-storey car park called for a floor depth of just 150mm comprising a 60mm deep slab with 90mm structural topping. However, and there's always a however, a traditional rigid safety barrier post needs fixing with 4 bolts each to a depth of 170mm. Obviously these couldn't be used, so contractors Laing O'Rourke turned to barrier specialists Berry Systems to provide a solution and appropriate perimeter barriers for the 6 decks and the spiral entrance and exit ramps.

Over many years Berry Systems have developed a range of flexible spring steel barriers that 'give' on impact. This not only reduces damage to both the barrier and an impacting vehicle but crucially reduces the pull out loading on the anchorage by 50% or more. This in turn allows post fixing to be achieved by using only a single bolt embedded to a depth of merely 110mm - a depth achievable into the new slabs.

The specification was completed with Berry Beam safety rails to provide a more attractive appearance than the well known "Armco" style. Post extensions provided mountings for a pedestrian handrail at 1100mm high with integral anti-climb mesh where needed.

The thin slabs were developed by Bison Manufacturing and are the thinnest precast concrete planks produced to date in the UK. They led to many benefits which considerably reduced the construction programme. It also allowed 6 floors in the usual height of 5, increasing capacity to 1340 spaces. But perimeter protection would have proved problematical without the expertise of Berry Systems.



Specification

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Talk to one of our experts and find out how Berry Systems can make a difference to your next project



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