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**LOCATION**

DERRIFORD, PLYMOUTH

**DESCRIPTION**

MULTI-STOREY CAR PARK  
ON HOSPITAL PREMISES

**CLIENT**

PLYMOUTH HOSPITALS  
TRUST

**ARCHITECTS**

S333

**CONTRACTORS**

SIR ROBERT MCALPINE

**INSTALLED BY**

BERRY SYSTEMS

**SYNOPSIS**

Vehicle/Pedestrian safety  
barriers for 627 space,  
6 storey new car park at  
the Derriford Hospital in  
Plymouth





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## BERRY BARRIERS HELPS CURE PARKING CAPACITY AT DERRIFORD HOSPITAL



The eco-friendly design features green walls with climbing plants on the two lowest levels, steel latticework on the next two and timber latticework on levels 5 and 6. Advice was sought from barrier specialists Berry Systems who recommended their RB1X spring steel buffers that 'give' in a collision to absorb impact forces and minimise damage to the barrier, the vehicle and the car park deck on which the barrier is mounted. After an impact the barrier returns to its original position to provide on-going protection. Berry Beam rails were used to give a more refined appearance than the traditional Armco W section. A pedestrian handrail was mounted above

the barrier on post extensions at 1100mm high and the space in between filled with anti-climb mesh to stop pedestrians falling through, or even climbing over the barrier onto the exterior latticework. By specifying 750 mm post centres, as advised by Berry Systems, the potential deflection of the barrier was restricted to ensure that the exterior lattice work will not be damaged. The specification also meets the "twice force" level of protection required by BS EN 1991 -1-1 2002 Annex B, the European Standard that has superseded BS 6399 Part 1 1996. This higher level of protection is needed opposite down ramps and at aisle ends where car speeds could be greater.



THE LOOK YOU WANT  
 THE PROTECTION YOU NEED

### SPECIFICATION

- 641m of Berry Beam mounted on RB1X 100 x 14 spring steel buffers at a maximum of 750mm post centres. Post extensions to mount pedestrian handrail at 1100mm height complete with anti-climb mesh infill.

Like many hospitals, Derriford in Plymouth has to match ever-increasing numbers of patients, visitors and staff with limited parking availability. The new 627 space multi-storey car park on the North West Quadrant will go a long way towards easing the situation for

the daily 8000 footfall to the hospital. Part of a 6.6 hectare site being developed by Wharfside Regeneration for Plymouth Hospitals Trust, the new car park was designed by international architects S333 and built by Sir Robert McAlpine Limited.

A member of the Hill & Smith Infrastructure Products Group