



'Watertight by Design'



Meggit Avionics Car Park Fareham, Hampshire

Case Study

Meggit Avionics produce flight data sensors, systems and displays for all types of civil and military aircraft, including helicopters and unmanned aerial systems (UAS) drones. At the firm's expanding facilities in Fareham, their success meant that they needed to find a way to provide more parking for the growing number of people working on the site.

The solution was provided by Metpark UK, in a complete car park design and build contract, that provided a whole new parking level, raised and built directly above their existing surface car park, which added a further 63 parking spaces. This included a new structural steel frame, with steel access stairs, perimeter crash barriers, and lighting, plus composite steel and concrete decks with waterproof deck surfacing. The structural design used 40mm wide expansion joints brought right through the composite deck to allow the anticipated high joint movement capability required, which was up to +/- 50% (i.e. total 100%).

The Emseal DSM system was selected and used to securely seal the exposed expansion joints as it can easily meet and accommodate all these requirements. Emshield DSM is a prefabricated movement joint that is easily installed from above, so other trades can continue uninterrupted below. Additionally it is bonded into position with a structural epoxy adhesive, so there is no potentially damaging drilling required into otherwise sound concrete elements of the new decks.



Client:
Meggit Avionics, Fareham
Design & Build Contractor:
Metpark

Specialist Contractor
Thelwell Flooring

Main Products Used:
Emseal DSM System

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NCC Movement Joint Systems