



Meggit Avionics Car Park Fareham, Hants

Client:

Meggit Avionics, Fareham

Design & Build Contractor:

Metpark

Specialist Contractor:

Thelwell Flooring

Main Products Used:

Triflex Deckfloor, Emseal DSM System

Contact:

NCC Resin Flooring

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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. As part of the expansion of their facilities in Fareham, they needed to increase parking places for employees and visitors to the site.

A Design and Build proposal from Metpark UK 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 steel framed structure, with steel stairs, crash barriers, and lighting, plus a composite steel and concrete deck, with Triflex Deckfloor as the waterproof deck surfacing system. This design used 40mm wide, transverse structural 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%).

Emshield DSM was used to securely seal these externally exposed expansion joints, as it can easily meet and accommodate the high movement, as well as the simultaneous external weathering and anticipated traffic levels. Emshield DSM is a prefabricated movement joint that is easily installed from above, allowing other trades to 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.

