



Rental Car Parking Facility Hartsfield Jackson Airport, Atlanta

Case Study

The enormous new 2.6 million m² Consolidated Rental Car Parking Facility (CRCF) has massive decks on its 2 x four-storey parking structures that have large expansion joints designed into these to accommodate high levels of structural movement, which is from the significant thermal expansion and contraction over these large surfaces, plus dynamic loading in daily service.

The Emseal SJS System was chosen for the wider structural movement joints in the main parking deck spans, particularly because this is the only cover-plate-based expansion joint system that is not anchored into the concrete through stress inducing metal fixings, which can also be a corrosion risk. Emseal SJS is supplied pre-compressed and is locked to the joint faces through a combination of back-pressure and the structural epoxy adhesive. This also supports a central spine to which the top cover plate is attached and as a result the system is also dampened against sound transfer, making Emseal SJS the quietest wide joint system available.

In addition, Emseal's Thermaflex system was used for the main parking deck joints and the Emseal Colorseal system was used for service areas internally as well as the vertical wide, external façade joints.



Owner:
Hartsfield Jackson Airport, Atlanta,
Georgia, USA

Specialist Contractor:
Alpha Insulation and Waterproofing,
Marietta, GA

Main Products Used:
Emseal Thermaflex, EMSEAL SJS

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