



Rental Car Parking Facility Hartsfield Jackson Airport, Atlanta

Client:

Hartsfield Jackson Airport, Atlanta,
Georgia, USA

Specialist Contractor:

Alpha Insulation and Waterproofing,
Marietta, GA

Main Products Used:

EMSEAL Thermafex, EMSEAL SJS

Contact:

Emseal Joint Systems

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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 the anticipated high levels of structural movement in the structure, due to the significant thermal expansion and contraction, plus dynamic loading in daily service.

EMSEAL Thermafex was specified as the parking deck expansion joint and the EMSEAL SJS System was chosen for the wider structural joints in the main parking deck spans. This features an innovative non-invasive anchoring design, which means it is the only cover-plate-based expansion joint system that is not anchored into the concrete through stress inducing metal dowels, anchors, or hard connections of any kind that can also be a corrosion risk.

It's pre-compressed, impregnated foam sealing assembly locks to the joint faces through a combination of inherent back-pressure, a field-applied structural epoxy adhesive, and injected silicone sealant bands. This supports a central spine to which the cover plate is attached and therefore the system is dampened against sound transfer, making the SJS System the quietest seismic wide joint system available.

In addition, EMSEAL's Horizontal Colorseal system was also used for service area interior joints, as well as EMSEAL's Seismic Colorseal for wall joints.

