



## Rental Car Parking Facility Hartsfield Jackson Airport, Atlanta

### Case Study

The enormous new 2.6 million m<sup>2</sup> Consolidated Rental Car Parking Facility (CRCF) at Atlanta Airport in the USA has massive decks on its 2 x four-storey parking structures that are probably the World's largest. These have large structural expansion joints designed into the deck floors, that are used to accommodate the high levels of structural movement in the structure every day, which is created by the deck's thermal expansion and contraction, plus dynamic loading from all the vehicle movements on this huge reinforced concrete structure.

The wide deck expansion joints were sealed using Emseal SJS joint sealing systems to provide the watertight, trafficable, high movement structural joints.. The Emseal SJS system is non-invasive, which means it is the only expansion joint system that is not anchored into the concrete through stress inducing metal dowels, anchors, or hard connections that can also be a corrosion risk. The 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 the central spline to which the integral cover plate is then attached, and in this way, the system is also dampened against sound transfer, making the Emseal SJS System also the quietest trafficable wide deck joint system available for parking decks.



**Client:**  
Hartsfield Jackson Airport,  
Atlanta, Georgia, USA

**Specialist Contractor:**  
Alpha Insulation and  
Waterproofing, Marietta, GA

**Products Used:**  
Emseal Joint Sealing and  
Waterproofing Systems

**Contact:**  
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