

Project Spotlight



KKIA New Cargo Terminal Riyadh, Saudi Arabia

SFRC ground bearing Freeplan®
'jointless' floor slab

Twintec Saudi LLC has designed and installed a Freeplan® floor for the New Cargo Terminal in Riyadh Airport (KKIA) Saudi Arabia.

Saudi Arabian Logistics (SAL) has commenced operation at its new 20,000m² cargo terminal situated at King Khaled International Airport (KKIA) in Riyadh. The new facility can accommodate and process up to 450 tonnes of cargo annually which will serve different sectors and services such as mail, e-commerce, general cargo, cold chain goods, perishables, pharmaceuticals and others. This facility is part of the huge strategic plan to help boost Saudi Arabia as a global cargo hub.

The construction of this new cargo terminal within King Khaled International Airport was planned in order to accommodate the vast amount of logistic movements within the Central Region. It will cater and consolidate shipments worldwide and will serve as the main hub for import and export activities for Air Cargo Industry in Saudi Arabia.



Project Data

End User:	Saudi Arabian Logistics (Saudi Cargo)	M2:	20,000m ²
		Pour Days:	10
		Slab Depth:	250mm
Main Contractor:	Al Bawani	Fibre Type:	AFT 08/55
Consultant:	AECOM	Fibre Dosage:	30kg/m ³

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Air cargos are much more effective in terms of trading activities around the globe. It is the fastest and most efficient way to transport any type of goods from one place to another without compromising the safety and security of goods. One of the best advantages of air cargo is the real-time tracking movement of shipment with Estimated Time of Arrival (ETA), which serves as vital part of logistics operations especially for important and special shipments whether for business or personal use.



With Twintec's expertise in High Tolerance Jointless Flooring using Steel Fibre Reinforced Concrete (SFRC), we are able to provide the best flooring solution for any type of logistics or warehousing facilities including distribution centres, airport terminals and ship yards.



Twintec is unique worldwide in offering a total responsibility package of Design-Build-Guarantee.

Design:

Twintec in-house engineering team consider all elements of the building. Specifically considering loading requirements onto the slab of UDL 50kN/m² and racking leg load 227kN, operational traffic within the facility and durability and life costs. A 250mm slab thickness to all areas was utilised with a fibre dosage of 30kg/m³ of high tensile strength AFT 08/55 steel fibres. This floor slab also encompassed the Terajoint® steel armoured construction joint to ensure a smooth load transfer between highly trafficked panels.

Build:

Co-ordination of activities on site is a key success factor and this was achieved by the professional project management teams of Al Bawani, AECOM and Saudi Cargo ensuring all parties worked together to deliver a successful project. All Twintec floor slabs are constructed by a team of directly employed, skilled and experienced workers which allows us to achieve 3,000m² /day (750m³ /day). As the concrete is the key component to ensure quality in the floor slab, an excellent supply by Transgulf met Twintec's daily requirements.

Guarantee:

The Twintec assurance guarantee is provided to all parties in a project. This incorporates insurances, warranties and advisory notes together with Twintec quality guarantees that come from employing professional staff throughout the business, a high level of customer service and a robust aftercare system.



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