**X – the new international hub in Abu Dhabi**

Piers, Midfield Terminal Complex, Abu Dhabi Airport / U.A.E.

**The Midfield Terminal Complex at Abu Dhabi International Airport is currently one of the Emirate's most impressive construction projects. At the same time it represents the core of the Abu Dhabi Economic Vision 2030. Once completed, the expected number of passengers processed at the complex is between 27 and 40 million annually. Doka is on-site with its high-performing formwork systems to support the air traffic hub expansion.**

The new terminal complex is erected between the airport's take-off and landing runways and expected to open in 2017. The Abu Dhabi Airport Company (ADAC) hired Joint Venture TAV-CC-Arabtec to assume the role of project contractor. Construction is well under way on part of the complex – the Midfield Terminal Building. The airport terminal is 1.1 km long overall and covers 700,000 m2. From the perspective of architecture, the structure's unusual X-shape is truly eye-catching. It will be visible from a distance of 1.5 km and become a striking landmark in the Emirate of Abu Dhabi.

**Floors, walls and columns sourced from Doka**

The colossal piers demand the expertise and know-how of Doka. They are designed to accommodate up to 65 aircraft and able to handle planes as large as the A-380 Airbus megaliner. Doka's Abu Dhabi branch won the customer over with an economical and time-saving formwork solution tailored to the unusual shape and the tight 15-month schedule for cast-in-place concrete construction.

The Load-bearing tower Staxo 40 scores big when it comes to forming the floors that require a total of 11,000 m2 Doka floor formwork. The lightweight shoring system stands out for its exceptional ease of handling, quick assembly and maximum adaptability. The solution for supporting walls and columns is provided in form of the Large-area formwork Top 50. The pre-assembled formwork system meets all architectural requirements with respect to form, size and form-tie pattern. In addition 6,400 m2 Framed formwork Frami Xlife are in use.

**Doka project management on site**

A Doka project coordinator ensures a smooth workflow throughout all stages of the project. A team of technicians and a formwork instructor are on-site to instruct the crew in using the formwork safely and effectively. Crucial ingredients for a smooth workflow and successful project are daily coordination of formwork delivery to the site and on-site distribution of materials. In addition, the team at the Doka branch are also forging ahead intensely on the project. Thus far the Engineering Department completed 500 project drawings.

"In the past, I collaborated with Doka on several projects similar to the Abu Dhabi Midfield Terminal Building. Doka is a reliable partner for this project. With its know-how and technical solutions, the team significantly contributed to us achieving our milestones. Doka practitioners provide support directly on site; even materials required on short notice are delivered quickly", so Huseyin Misirlioglu, Senior TAV Project Manager on collaborating with Doka.

The Midfield Terminal Complex is not the only project in the aviation sector where Doka's expertise is sought. Construction of the international airports in Muscat and Salalah in Oman, the King Abdulaziz International Airport in Jeddah, Saudi Arabia, or the New Doha International Airport in Qatar are additional projects where Doka demonstrated its skills in developing solutions.

**In short:**

Project: Piers, Midfield Terminal Complex, Abu Dhabi International Airport

Site: Abu Dhabi, United Arab Emirates

Construction company: Joint Venture TAV-CC-Arabtec

Construction start: December 2013

Scheduled completion: 2nd half 2017

Systems used: Products: Framed formwork Frami Xlife, Load-bearing tower Staxo 40, Large-area formwork Top 50

Services: Formwork planning, Formwork instructors, Site logistics, On-site engineering support

**About Doka:**

Doka is a world leader in developing, manufacturing and distributing formwork technology for use in all fields of the construction sector. With more than 160 sales and logistics facilities in over 70 countries, the Doka Group has a highly efficient distribution network which ensures that equipment and technical support are provided swiftly and professionally. An enterprise forming part of the Umdasch Group, the Doka Group employs a worldwide workforce of more than 6000.

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**Captions:**

**Doka\_2015\_06\_Midfield Terminal Complex\_Rendering\_©www.arabtecuae.com.jpg**

With its unusual shape the new airport terminal will become a prominent landmark in Abu Dhabi.

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**Doka\_2015\_06\_Midfield Terminal Complex\_IMG\_01.jpg**

Doka Abu Dhabi developed a customized formwork solution for the expansion of the international airport in Abu Dhabi.

Photo: © Doka

**Doka\_2015\_06\_Midfield Terminal Complex\_IMG\_02.jpg**

Due to its lightweight, ergonomically designed components the Load-bearing tower Staxo 40 can be erected with minimal effort and with no need for a crane.

Photo: © Doka