

SAMI Land Industrial Complex (SLIC) - raft foundation



SAMI Land Industrial Complex (SLIC) is established in Al Kharj City, marking a groundbreaking initiative within the Kingdom's defense sector. The complex is designed to provide comprehensive logistical support, testing, and maintenance services. With its advanced facilities and strategic capabilities.

The challenge

The project encountered several significant challenges due to its complexity. The customer required an easier and faster installation process to save construction time. Additionally, they aimed to improve crack resistance, streamline the pouring process, and enhance structural performance with a focus on sustainability and durability.

The solution

We ensured project success with comprehensive support from structural analysis to on-site assistance. The solution featured an optimized design using Dramix® 4D fibers with steel rebar, enhancing crack resistance and performance, cutting execution time by 50%. Reducing steel bar size and quantity simplified handling and sped up installation. This approach reduced the carbon footprint, aligning with

sustainability goals. Fibers also eased internal stresses in concrete, preserving structural integrity. The method saved 11% on steel costs, showing sustainability and efficiency can reduce costs. It met long-term performance needs with a sustainable, high-quality result.

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Project Specifications

Project type: Manufacturing hall
Application type: Raft/mat foundation

Partners

Owner: Saudi Arabian Militar Industries (SAMI)
General contractor: Zamil Construction
Engineering office: FALCONIX Engineering And Ghafari Associates

