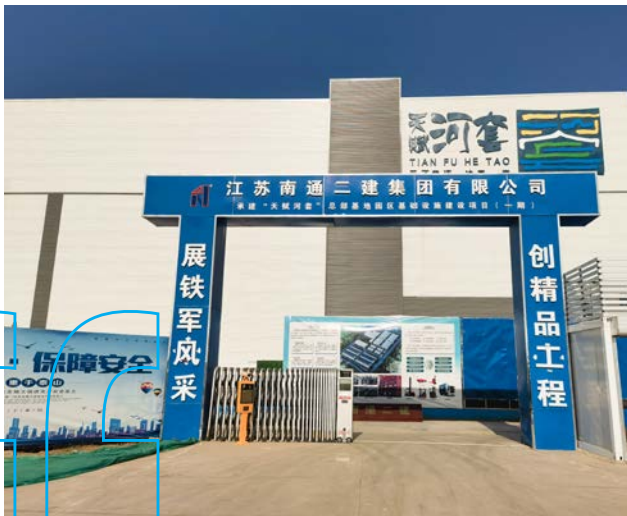


IMBGI Tian Fu He Tao Cold Storage



Located in Bayan Nur, Inner Mongolia, the IMBGI Tian Fu He Tao cold storage facility spans an impressive 360,000 m², making it the largest and most functionally complete storage hub in northwest China. Developed under the “Tian Fu He Tao” regional public brand of agricultural products, this facility is one of the first 17 backbone cold chain logistics hubs in the country. The project was designed by Lushang Binglun Architectural Design Co., Ltd., with a focus on supporting high-end agricultural and livestock product storage.

The challenge

The cold storage facility operates at temperatures between -18°C and -25°C, with shelves reaching heights of approximately 10 meters. Given these conditions, the concrete floor needed to be highly durable and resistant to cracking, as any damage would be difficult to repair once the facility became operational. A robust flooring solution is necessitating to ensure long-term performance and meet the high standards for a top-tier agricultural storage base.

The solution

To address these challenges, a saw-cut floor was designed using Dramix® steel fiber concrete reinforcement. The floor was constructed with a thickness of 0.2 meters and a dosage of 15 kg/m³ of fiber, with saw cut spaces set at 4.6m x 4.0m. This solution provided enhanced crack resistance and durability, crucial for maintaining the integrity of the floor under heavy loads and temperature fluctuations. The use of Dramix® steel fiber concrete

reinforcement ensured that the floor would remain functional and easy to maintain over the long term, providing a solid foundation for the storage of high-end agricultural and livestock products in this expansive cold storage facility.

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Project Specifications

Project type: Cold storage
Application type: Saw-cut floor
Product: 4D 65/60BG

Partners

Designer: Lushang Binglun Architectural Design Co., Ltd.

