

Inside One of America's Largest Distribution Facilities

United States of America

Project Overview

Twintec delivered the complete internal flooring package for one of the largest distribution centres constructed in the United States for a confidential international retailer. Covering more than 856,800 ft², the facility combines ambient, chilled and freezer storage to support high volume distribution operations. Working alongside Korte Company, Twintec engineered and constructed a steel fibre reinforced concrete flooring solution that balanced structural performance, operational efficiency and long term reliability across a complex multi zone logistics facility.



Project Data

BUILDER

Korte Company

DEVELOPER

Confidential

GROUND FLOOR AREA

856,800 ft²

FLOOR TOLERANCES

FF/FL 40/35

FIBRES

Dramix® 4D 80/60 BG at 47 lb/yd³

SLAB THICKNESS

6–8 inch

The Challenge

The scale and complexity of the facility demanded careful planning from design through construction.

Different operational environments required varying slab designs and construction methodologies, while multiple work fronts and overlapping trades placed significant pressure on sequencing and coordination.

Maintaining consistent quality across more than 856,000 ft², while keeping pace with an accelerated construction programme, required detailed engineering and disciplined project delivery.

The Solution

Twintec designed and installed steel fibre reinforced concrete flooring throughout the warehouse, freezer and cooler areas, together with dock pits, mud slabs and external service slabs.

Using Dramix 4D 80/60 BG fibres at 47 lb/yd³ with a dry shake hardener, the team optimised the original slab design to reduce concrete consumption while maintaining structural performance.

Concrete was fibre integrated on site prior to placement, with simultaneous installation crews including specialist support from Europe ensuring programme milestones were achieved safely and efficiently.

The Outcome

The completed flooring system achieved the specified FF/FL 40/35 floor tolerances while delivering a durable, low maintenance surface capable of supporting continuous warehouse operations. The optimised slab design reduced material usage without compromising performance, and the project has continued to perform without warranty issues since completion. It stands as a strong example of Twintec's ability to combine global engineering expertise with local delivery on some of North America's most demanding industrial flooring projects.

Key Facts

- 856,800 ft² distribution facility
- Confidential international retailer
- Steel fibre reinforced concrete floor system
- Dramix 4D 80/60 BG fibres
- 47 lb/yd³ fibre dosage
- 6-8 inch slab thickness
- Ambient, cooler and freezer floor areas
- Dry shake surface hardener
- FF/FL 40/35 floor tolerances achieved
- Optimised slab design reduced concrete volume
- International Twintec teams supported project delivery

The Twintec Difference



30 Years of Expertise

Delivering trusted flooring solutions worldwide.



Proven High-Performance

Materials engineered for durability and efficiency.



Global Expertise, Locally Applied

Bringing international knowledge to your project.



Sustainable Solutions

Reducing environmental impact while supporting your ESG goals.



Scalable & Flexible Solutions

Tailored for contractors and end-users.



Have a Project? Talk to
Our Twintec Experts Today!

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