

## Project Spotlight



### Americold ASRS Rochelle, Illinois

#### Design and Construction of a 115,900 ft<sup>2</sup> Twintec Structural Mat Slab on Insulation

Americold, a global leader in cold storage and refrigerated warehousing services, recognized the long-time experience and leading edge Twintec possesses with the structural design and construction of concrete mat slab bodies as applied to automated, rack-supported buildings. The use of high tensile strength steel fibers, when incorporated in a specifically adapted concrete mix, will not only control shrinkage within the concrete body, but will also provide it with

the structural properties of heavily reinforced concrete. In addition, the use of advanced steel fiber reinforcement instead of conventional rebar steel reinforcement allowed for the pouring of large areas in a faster and safer manner. After the completion of Twintec's work, drilling and boring operations to place rails as well as the racking system (AS/RS) were required. Without the presence of potential rebar interferences, a highly efficient erection schedule was rendered possible. The AS/RS system will use tall cranes on rails as well as robotic conveyors to store, move and retrieve products throughout Americold's newest high-bay warehouse.



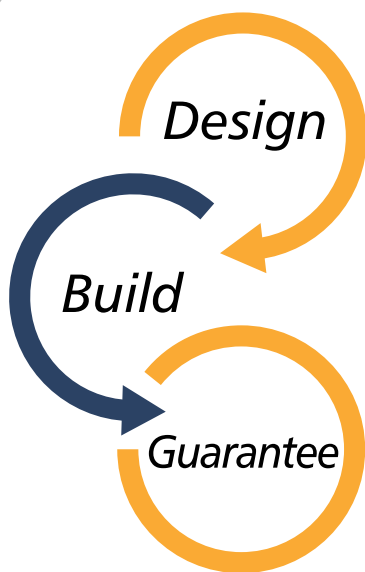
#### Project Data

|                     |                                    |
|---------------------|------------------------------------|
| End User:           | Americold                          |
| General Contractor: | Griffco Design Build               |
| Area :              | 115,900 ft <sup>2</sup>            |
| Building Height:    | 140 ft                             |
| Mat Slab Thickness: | 21 in.                             |
| Steel Reinf. Type:  | AFT HE2+ at 75 lbs/yd <sup>3</sup> |
| Completion:         | December 2017                      |

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### Design

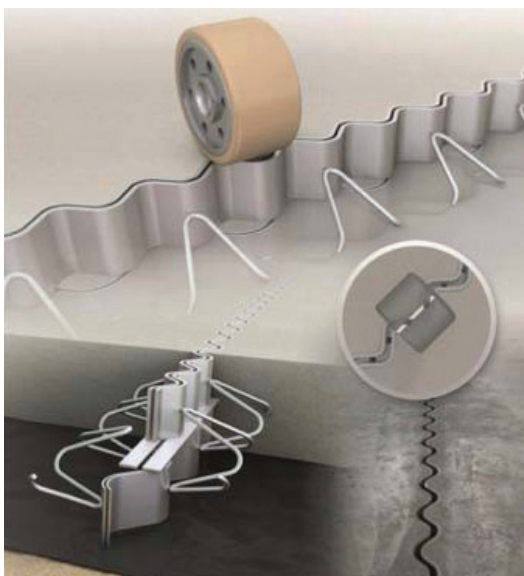
Twintec is the leading and only specialty concrete engineering and install firm in the US. At Twintec, we believe our in-house engineering expertise goes a long way in assisting our clients. Twintec has developed the most advanced methods to design structural concrete bodies as applied to both joint-free, reinforced flooring systems and structural flat concrete bodies.

### Build

Twintec provides state-of-the-art install operations. Twintec USA crews are professionally trained to the global Twintec standards in terms of safety, quality, and operational excellence.

### Guarantee

Twintec provides a unique a 5-year guarantee on their finished FREEPLAN™ products and design build services.



Contact the Twintec USA business team for further information:

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