

Project Spotlight



Logistics Warehouse, Qatar

High Tolerance SFRC ground bearing Twinplan® 'jointless' floor slab

Very Narrow Aisle (VNA) racking requires a very flat floor to operate efficiently and safely.

Twintec designed and constructed a DM1 (TR34 4th Edition) concrete floor slab to the specified tolerance requirements, maintaining all the advantages of a large panel 'jointless' SFRC floor slab for a prestigious client in Qatar, who demanded the highest quality of floor slab in addition to flatness standards for their operational requirements. The total project scope of freezer, chill and ambient warehouse amounted to 34,000m² with 18m VNA racking to be installed to 17,424m² of the facility.

All too often logistics warehouse floors are constructed and then require extensive grinding within the aisles to achieve the flatness tolerance specified by the racking and/or MHE supplier. The independent DM1 flatness survey for this project reports an overall 99.4% compliance with the required specification, making it the flattest large panel 'jointless' floor slab in the GCC – NO SAW-CUTS and NO REMEDIAL GRINDING WAS REQUIRED.



Project Data

Area:	34,000m ²
Panel sizes:	Up to 32.6m x 32.5m
Fibre Type:	AFT 08/55 fibres @30kg/m ³
Completion Date:	November 2016

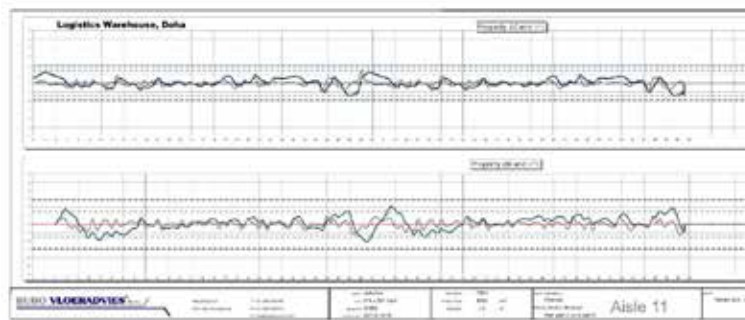
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NO SAW-CUT JOINTS – NO REMEDIAL GRINDING

Logistics technology is rapidly evolving and racking continuing to get higher. Logistics operators need to consider the demands that will be placed on the floor more closely and recognise the benefits of working with a specialist flooring contractor to meet their flatness and operational needs.

Twintec endorses the use of the Co-sinus® armoured construction joint within logistics facilities across the racking aisle-ways for a seamless load transfer, creating an efficient operating environment. The combination of a Twintec 'jointless' floor slab with Co-sinus joints, substantially cuts floor slab and MHE maintenance costs, reducing the year on year operating and life cost of the building.



Example Aisle Survey

It can be concluded from the measurement results that the industrial floor 99.4% satisfies the requirements according to The Concrete Society Technical Report No. 34 Fourth Edition for a DM1 floor slab. The floor satisfies the contractually agreed requirements and the floor will function as can be expected of an ultra-flat industrial floor slab.

BURO VLOERADVIES® b.v.

G.R.R. Seppen – Buro Vloeradvies B.V.

There are critical success factors to constructing a DM1 large panel SFRC 'jointless' floor slab, mastered by Twintec over many years of experience worldwide:

- Highly skilled and experienced workers, directly employed and quality motivated
- Dedicated Twintec flatness team working alongside experienced concrete finishers
- Precision in-house developed machinery and stringent maintenance regime
- Fully enclosed, strictly controlled and prepared working environment
- Trialled, tested and monitored concrete mix design, consistent delivery and quality
- Robust and continuous improved internal quality control processes
- Commitment of all project parties to design and construction excellence

Contact the Twintec Middle East business team for further information:

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