

Project Spotlight



Dick Vijn Logistiek Echt, NL

Warehouse - SFRC ground bearing Ultimate®
'seamless' floor slab

Dick Vijn Logistiek is a multi service provider for over 75 years. Their core-business is warehousing, distribution of food and non-food products and container laundry all around the Netherlands.

The construction of a new state of the art warehouse facility in Businesspark ML situated in Echt-Susteren, will enable Dick Vijn Logistiek to continue their growth in the Netherlands.

Building their new warehouse they are meeting the latest requirements of durability and sustainability, it also provides employment opportunities in this region of the Netherlands.

In a joint effort with VDR Bouwgroep the Twintec Engineering department provided the most suitable floor design, meeting up with the demands of Dick Vijn Logistiek. This resulted in the design and construction of a "seamless" steel fibre reinforced concrete floor slab, in combination with a layer of traditional mesh; a Twintec Ultimate® floor slab.



Project Data

End User:	Dick Vijn Logistiek BV	Pour Days:	10 Days
Investor:	WDP	Slab Depth:	170mm
Main Contractor:	VDR Bouwgroep	Fibre Type:	MPZ HT50
M2:	16.397 m ²	Fibre Dosage:	35kg/m ³
		Completion Date:	February 2017

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Twintec Research and Engineering has designed a floor slab which corresponds to the local demands of the Eurocode and the modelcode 2010. Taking in al specifics of the customer.

Dick Vijn Logistiek has been produced in the high flatness tolerance NEN2747 Klasse 2, which has been reached fully.

Twintec is unique worldwide in offering a total responsibility package of Design-Build-Guarantee.

Design: Twintec in-house engineering team considered all elements of the building. Specifically considering loading requirements onto the slab of UDL 50kN/m² and racking leg load 80kN, and the operational traffic within the facility and durability and life costs. A 170mm slab thickness in the warehouse part and 160mm in the expedition part to all areas was utilised with a fibre dosage of 35kg/m³ high tensile strength MPZ HT 50 steel fibres in combination with a traditional mesh.

Build: Co-ordination of activities on site is a key success factor and this was achieved by the professional project management team at VDR Bouwgroep, ensuring all parties worked together to deliver a successful project. All Twintec floor slabs are constructed by directly employed, skilled and experienced workers. This was especially important on this project as the slab had to be laid by machine, whilst ensuring compliance with the project's stringent flatness requirements. Concrete is a key component to ensure quality in the floor slab and an excellent supply by Holcim met Twintec's daily requirements. The Twintec team laid 16,397m² in 10 working days, easily achieving the NEN2747 Klasse 2 flatness requirements for the project.

Guarantee: The Twintec assurance guarantee is provided to all parties in a project. This incorporates insurances, warranties and advisory notes together with Twintec quality guarantees that come from employing professional staff throughout the business, a high level of customer service and a robust aftercare system.

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