

High performance jointless industrial floor for a new service centre

Project overview >

Leonding, in upper Austria, is the location for a new Kika, Leiner and Lipo service centre. The new facility is providing the retail furniture chain with space for approximately 10,000 pallets.

Customer: Kika Leiner

General contractor: Goldbeck Rhomberg GmbH

Location: Leonding, Austria

Soil data of EV2: 720 MN/m² and ratio
EV2 / EV1 = 2,3

Fibre type: HE 90/60

Dosage: 25kg/m³

Concrete class: C25/30 B2 (Delivered by
Asamer Kies- und Betonwerke GmbH)

Working environment: Indoor, closed
hall construction

Area: 12,000m²

Slab thickness: 20cm

Construction date: 2018

“This project demonstrates ArcelorMittal Fibres commitment to the timely and cost effective delivery of our TAB®Floor system. The HE 90/60 fibre, dosed at 25kg/m³, delivers a long standing, high performance floor for Kika, Leiner and Lipo.”

Dipl.-Ing. Martin Spindler (VDB)

Head of Fibre Business Germany, Austria, Switzerland and Slovenia
ArcelorMittal Fibres

The challenge >

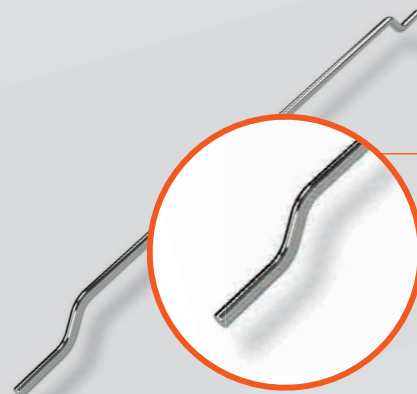
An economic and durable flooring solution, to ensure the sustainable use of warehousing processes was the challenge set by Goldbeck Rhomberg GmbH. Static and dynamic loads, including high racking single load of 100 kN, forklift traffic and a uniformly distributed load of 50 kN/m² was a feature of the new facility.



The solution >

Our sales and support team specified the jointless TAB®Floor system. Joints are often the weakest point in every slab. In order to improve the technical properties of the floor, especially for heavy traffic and high static loads, our TAB®Floor solution allows the casting of bays up to 2,500m² without any saw-cut joints.

Slab thickness was reduced to 20cm, with improved crack control. The joint edges are protected by a steel profile thus reducing the spalling effect under heavy traffic. The use of the HE 90/60 steel fibre, with a tensile strength of 1200N/mm², dosed at 25kg/m³ in a C25/30 B2 concrete has significantly improved impact resistance.



SPECIFICATION

Fibre type:	HE 90/60
Dosage:	25kg/m ³
Slab thickness:	20cm
Concrete class:	C25/30
Surface area:	12,000m ²



The result >

The project team delivered a high performance solution that will stand the test of time from both durability and functional perspectives. The ArcelorMittal Fibres team were able to advise in detail on setting up the project specification, the most appropriate fibre type to comply with the specification, optimum dosage rates to guarantee performance and concrete mix optimisation. The team also provided on-site support and advice on dosing and mixing as well as the installation of dosing equipment.

The world is building on our expertise.

Contact: fibresupport@arcelormittal.com

Visit: www.arcelormittal.com/steelfibres