



CASE STUDY

Logistics

PROJECT OVERVIEW

Project: Rimi Baltic Logistics Centre

Customer: Rimi Baltic

General Contractor: YIT Lietuva, UAB and Bukoteks, SIA

Product: PrīmX high-bay floor

Usage: Logistics Centre

Address: Augusta Deglava 161, Riga, Latvia

Casted: Oct, 2019 – Jun, 2020

Area of floors: 47,000 m² (107,639 sq ft)

Area of freezer: 5,200 m² (55,900 sq ft)

Slab thickness: 100, 145, and 170 mm (2, 8, 5 in)



CUSTOMER

Rimi Baltic is a major retail operator in the Baltic states based in Riga, Latvia.

The company is a subsidiary of Sweden's ICA Group. Rimi Baltic conducts grocery retail business via 283 wholly owned stores in Estonia, Latvia, and Lithuania. Store formats include Rimi Hyper, Rimi Super, Rimi Mini, and Rimi Express. Rimi Baltic also includes properties owned by the Group in the three Baltic countries.

Rimi Baltic Logistics Centre is one of the largest investment projects of the branch in the Baltic States and the largest and most modern logistics center in the Baltics.

CHALLENGE

Rimi have introduced several sustainable, modern solutions to improve productivity and employee work conditions and reduce the impact on the environment – solutions include a voice control system, an automated order planning system, LED lighting, and a CO₂ cooling system.

Therefore, the flooring slab solution also had to be sustainable, support lean and efficient operations. As racking systems is with height up to 11 m, ensuring 53,200 pallet places, floor slab load bearing capacity requirements where based on maximum loading potential.



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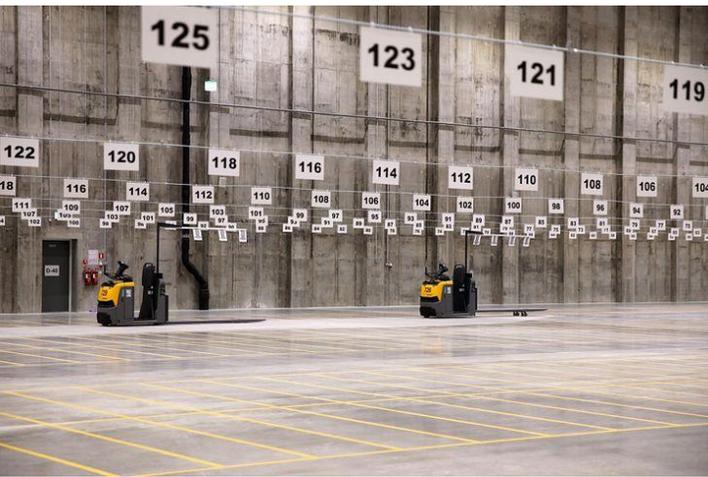


Photo: Ieva Leiniša / LETA



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SOLUTION

The PrīmX solution for 47,000 m² (107,639 sq ft) high-bay warehouse floor slab and 5 200 m² (55,900 sq ft) freezer slab was the right fit for Rimi's innovative, sustainable approach.

PrīmX slab design thickness went from 100 to 145 and to 170 mm (2, 8, 5 in). The solution is a flat, seamless, dimensionally stable concrete floor that allows for full flexibility in racking and facilitates the most effective placement of maximum loads. Rack placement, as recommended in the PrīmX design, maximizes the efficiency of the goods storage area.

PrīmX Duo-Top solution was implemented to ensure extra surface durability.

The benefits of PrīmX floor for Rimi Baltic Logistics Centre:

- Flat for life - the floor is flat after casting and stays flat for smooth, fast operations with no shrinkage movement;
- Low maintenance - no joint repairs, no damage to forklifts;
- Extra hard surface due to the double hardening effect;
- Complete flexibility in racking placement and equipment anchoring - jointless, no rebar;
- Significantly reduced embodied carbon emissions due to efficient materials and optimized slab design.



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