



CASE STUDY

Logistics

PROJECT OVERVIEW

Project: Green Park 1 & 2
Customer: Piche, SIA
General Contractor: Piche, SIA
Product: PrīmX floor with double hardening effect PrīmX TOP XD
Usage: Industrial Park
Address: Dzirnieku 24, Riga, Latvia
Casted: Apr, 2020 – Dec, 2020
Area: 41,000 m² (441,320 sq ft)
Slab thickness: 105 mm (4.13 in)
CO₂ savings: 738,000 kg (1,627,011 lbs.)



CUSTOMER

The Most Energy Efficient Industrial Park in Latvia - GREEN PARK, developed by Piche. The project is located close to Riga International Airport.

The total area is 57,000 m², of which 50,000 m² is warehouse and production premises, but 7,000 m² is office space.

This project paid special attention to ensuring the maximum energy efficiency of the building and used innovative technologies to minimize the tenants' monthly expenses.

CHALLENGE

Green Park is designed as "Built to Suit" - all premises are adaptable to the customer's needs (planning, number of docks, ramps, number of lateral nodes, etc.).

PrīmX floor slabs were the best fit for the current project as its jointless design provides full flexibility for the distribution center owners to adapt the premises to the needs of each tenant.

The main challenge in this particular project was construction being split into several phases that required careful production planning to avoid losing efficiency.



Joint-less



Perfect for AGV



Low maintenance



Stays flat

40% Less CO₂ emissions

Hygienic

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SOLUTION

PrīmX solution is a flat, seamless, dimensionally stable concrete floor that allows for full flexibility in racking and other load placement. A flooring solution that is the best fit for precise, robotic, automated systems.

The current project design was based on the following loading requirements:

- 7 tones per m² (racking point load 9 tones),
- 4.5 tones of forklift axle weight,
- 6.2 tones per 200 mm x 200 mm area of shelf flooring.

The PrīmX design allowed the most effective placement of racks to maximize the efficiency of the goods storage area.

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

PrīmX floor benefits for tenants:

- **Flat for life** – the floor is flat after casting and stays flat for smooth, fast operations;
- **Low maintenance** – no joint to repairs, no damage to forklifts;
- **Extra hard surface** due to the double hardening effect;
- **Saves 40% CO₂** – due to better materials and optimized slab design;
- **Complete flexibility in racking placement** and equipment anchoring – jointless, no rebar;
- **Perfect for AGV** – flat floor with no shrinkage movement.



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