



CATENA

CASE STUDY Logistics

PROJECT OVERVIEW

Project: Procurator Warehouse

Customer: Catena

General Contractor: YLAB Larssons Bygg AB

Product: PrimX floor on ground

Usage: Warehouse

Address: Malovagen 2, Taberg, Jönköping, Sweden

Cast: August 2019

Area: 15 800 m² (170 070 ft²)

Slab thickness: 100 mm (3.94 in)

CO₂ savings: 284 400 kg (626 995 lb)



CUSTOMER

The project was developed by Catena. Torsvik in one of Sweden's larger logistics areas in a location from where it is possible to transport goods to several metropolitan regions within a day. The property leaser is Procurator. The company offers a wide range of clothing, personal protective equipment, cleaning products, hygiene products, packaging solutions, and restaurant items to customers in the Nordic region. Procurator is part of OptiGroup, with net sales of EUR 1.5 billion in 2017 and 2,100 employees, providing support to more than 90,000 customers in 19 European countries.

CHALLENGE

The project was complicated because the building was constructed so that the floor absorbs the force of the wind transferred from the walls. Therefore a raised, plinth floor had to be anchored in the floor. Special floor deepening and advanced connections were used to prepare the structure for this purpose.

Construction work was made more challenging by the relatively large building area and the extremely strict schedule.



Joint-less



Perfect for AGV



Low maintenance



Stays flat



40% Less CO₂ emissions



Hygienic

Worldwide:
www.primkss.com
info@primkss.com

US and Canada:
www.primxna.com
info@primxna.com



SOLUTION

Our solution – High-Performance, Zero-Shrinkage Steel Fiber Reinforced Concrete technological floor. The PrīmX floor was chosen because it had the following properties:

- › high load-bearing capacity,
- › no shrinkage,
- › no joints within the daily casting area,
- › Lifetime flatness – the floor stays flat for its entire lifetime,
- › high rigidity – even under the extreme loads of this high-performance warehouse, deflections are negligible.

PrīmX technology allowed us to provide a much thinner slab thickness that still exceeds the specified load-bearing demands. PrīmX floor thickness – 100 mm slab (3.94 in).

As PrīmX is a steel fiber reinforced concrete system, a lot of time-consuming steel work was eliminated, thus saving weeks of construction time. Despite the relative complexity of the design, casting speed was impressive – in two weeks we were able to cast 15 800 m².

To ensure consistent quality and a transparent production process, we used our proprietary online quality system – PrimeQuality, which allows us to monitor 21 parameters during production.



Joint-less



Perfect for AGV



Low maintenance



Stays flat



40% Less CO₂ emissions



Hygienic

Worldwide:

www.primekss.com
info@primekss.com

US and Canada:

www.primxna.com
info@primxna.com