



CASE STUDY

Logistics



PROJECT OVERVIEW

Project: UNIL Logistics Warehouse

Customer: UNIL

General Contractor: Peab AB

Product: PrimX high-bay floor

Usage: Warehouse, logistics

Address: Våler Næringspark, Moss, Norway

Casted: June, 2015

Area: 7 543 m² (81 192 ft²)

Slab thickness: 100 mm (4 in); 120 mm (5 in); 180 mm (7 in); 200 mm (8 in)

CO₂ savings: 113 138 kg (249 426 lb)

Automated system: Swisslog

CUSTOMER

UNIL is part of NorgeGruppen, the largest retailer and market leader in the Norwegian grocery sector and responsible for NorgesGruppen's "Private Label" products. NorgeGruppen employs more than 28,800 direct employees, with over 40,000 when you include franchises. UNIL has more than 2,500 products in its portfolio, including brands such as Change, People, Jippi, Go Eco, First Price, Eldorado, Unique, Fisherman, and Jacobs.

CHALLENGE

To ensure more efficient operations, NorgeGruppen chose to centralize UNIL's multiple warehouses into one new high-bay warehouse. Combining them enabled the company to switch from a manual to an automated material handling solution. The warehouse allowed for high speeds and high precision within the automated warehousing system. At 31 meters, this was the highest freezer warehouse building in Norway.



Joint-less



Perfect for
AGV



Low
maintenance



Stays flat



40% Less CO₂
emissions



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SOLUTION

To ensure the investment in the automated material handling system UNIL chose to install a PrīmX floor with no joints or with very tight working joints. The floor is smooth and flat, and stays flat after casting. Because of its very stiff composite concrete material, there is less movement when loads are applied, so automated warehouse systems can operate without problems, at higher speeds, and with the lowest possible maintenance costs.

Because of its steel fiber reinforcement and special material formula, PrīmX is much stronger yet thinner than traditional concrete floors and still exceeds defined load-bearing capacities. Moreover, compared to traditional designs, by using less concrete, PrīmX reduces CO₂ emissions.



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