

> PROJECT OVERVIEW

Customer: UNIL
General Contractor: AF Gruppen
Product: PrīmXComposite high bay floor in warehouse with freezer
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)

CASE STUDY

Logistics

CUSTOMER

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



CHALLENGE

To ensure more efficient operations, the Company chose to centralize UNIL's multiple warehouses into one new high-bay warehouse. By combining the warehouses, Norge Gruppen was able to switch from a manual to an automated material handling solution. This automated warehouse allowed for high speeds and high precision within the automated warehousing system. This was the highest freezer warehouse building in Norway, 31m in height.



SOLUTION



To ensure the investment in the automated material handling system was recognized, they chose to install the **PrīmXComposite** floor with no joints or very tight working joints. It is smooth and flat, and stays flat after casting. Due to its very stiff composite concrete material, there is less movement from loads applied. That means the automated warehouse systems can operate without problems, at higher speeds, and with the lowest possible maintenance costs.

Due to steel fiber reinforcement and special material formula, **PrīmXComposite** is much stronger and thinner than traditional concrete floors while still exceeding defined load bearing capacities. By using less concrete, there is also CO₂ emission savings compared to traditional design.



50%
STRONGER



30%
FASTER
INSTALLATION



40%
LESS CO₂
EMISSIONS

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US market: WWW.PRIMXCOMPOSITENA.COM