



# CASE STUDY

## Logistics



### PROJECT OVERVIEW

**Project:** Biltema Västerås  
**Customer:** Biltema  
**General Contractor:** GBJ Bygg  
**Engineering Company:** Pehrsko (SE)  
**Performed works:** PrimX slab on piles  
**Usage:** Warehouse, Store  
**Address:** Hallsta Gårdsgata 5, Västerås, Sweden  
**Casted:** July 2021 (3 weeks)  
**Area:** 4,900 m<sup>2</sup> (52,800 sq ft)  
**Slab thickness:** 170 mm, 230 mm (6.69 in, 9.05 in)  
**CO<sub>2</sub> savings:** 88,200 kg (194,447 lbs)

### CUSTOMER

Retail giant Biltema continues its massive expansion plans with many new department stores around Sweden. The venture requires new warehousing capacity to streamline logistics operations. The new warehouse in Halmstad is a record-breaking project for both client and contractor - Biltema and GBJ Bygg.

Biltema has partnered with GBJ Bygg, who will build new department stores for the company in Partille, Eskilstuna, Hässleholm, and Västerås.

Founded in Linköping, in 1963, the Swedish retail chain, Biltema, specializes in tools, car spares, and leisure products and has stores in Finland, Norway, and Denmark.

### CHALLENGE

Biltema's demand for lifetime flat floor with minimal maintenance costs made Primekss the right choice for the project.

Primekss was tasked with designing and building the 4,900 m<sup>2</sup> (52,800 sq ft) slab on piles, with different architectural geometries - multiple level changes for shop, warehouse, and parking zones with different usage and surface requirements.

Furthermore, the project construction time schedule was tight.



Joint-less



Perfect for AGV



Low maintenance



Stays flat

Up to 70% less CO<sub>2</sub> emissions

Hygienic

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## SOLUTION

PrīmX joint-less solution was chosen because it provides lifetime flat flooring with minimal maintenance costs.

PrīmX engineers' design solution was steel fiber reinforced self-stressing concrete with thicknesses of 170 and 230 mm (6.69 and 9.05 in). Advanced steel fiber technology and our own Primekss pouring technique ensure faster project pouring time.

- Lifetime flat floor to ensure smooth operations. The floor is flat after casting and stays flat for life
- Dimensionally stable slab that ensures no movement of construction systems (with no shrinkage movement)
- Low maintenance - PrīmX eliminates more than 90% of concrete slab maintenance issues, mostly caused by concrete's main drawback - shrinkage
- Sustainable floor construction - reducing carbon footprint by 88,200 kg (194,447 lbs)



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