

## CASE STUDY



### PROJECT DETAILS

**Project Name:**

Uline W8 and Uline I-7

**Location:**

Kenosha, WI

**Project Owner:**

Uline

**Project Architect:**

EAU Architects

**Project Engineer:**

Pierce Engineering

**Project Contractor:**

Hunzinger Construction

**Project Erector:**

Precast LLC

**Date:**

2020-2021

**Key Products:**

Insulated Sandwich Walls,  
Hollowcore

## County Prestress' Insulated Sandwich Walls Speed Installation of Massive Warehouse Distribution Centers

**Solutions:** Short lead times and ease of installation maintain tight construction schedule; prestressed wall panels and hollowcore offer complete solution

Uline expanded into Kenosha, WI with plans to develop a distribution campus that would bring over 1,000 jobs to the area. Over the next decade, the packaging company planned and built four expansive warehouses, including the W8 and I-7 distribution centers. The two structures completed the multi-phase project and are substantial in size at 1.1 million SF and 647,000 SF respectively.

Under simultaneous construction and aggressive timelines, the two warehouses required efficient, high-performing building materials. Prestressed concrete components were specified to meet these demands. Project leaders relied on County Prestress' enhanced production capacities to manufacture large quantities of Insulated Sandwich Wall (ISW) panels and hollowcore with short lead times.

Ideal for fast-paced industrial applications, ISWs are an efficient building system with unmatched advantages. Their prestressed fabrication offers superior load-bearing strength and rugged durability to withstand natural and manmade elements, such as fires and blasts. Beyond structural benefits, ISWs are known for their thermal performance and energy savings. The panels absorb and store heat and cold to maintain comfortable indoor temperatures, reducing costly peak energy loads. ISWs begin offering cost savings during production, where they are cut to specified sizes, with proper openings and arrive ready for installation. Without need for on-site preparatory work, panels can be installed in less time with smaller crews.

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Compatible with ISWs, hollowcore mezzanines were efficiently installed to maximize the project's usable space. The prestressed planks support high load capacities over long spans, creating open spaces with fewer columns. County Prestress coordinated with trades to ensure the proper openings were cut during production that would allow them to move through the building faster. Once installed, hollowcore works with ISW panels to maintain a comfortable indoor temperature.

With some of the fastest production times in the Midwest, County Prestress was equipped to manufacture a total of 433,700 SF of insulated sandwich wall panels and 14,500 SF of hollowcore plank for this large-scale industrial application. The W8 distribution center required nearly 255,000 SF of ISWs and over 9,800 SF of hollowcore plank, and the smaller I-7 building was constructed using 178,700 SF of ISWs and 4,700 SF of hollowcore.

County Prestress played an integral role in the success of this project by coordinating delivery with the many trades on site and manufacturing high volumes of product to meet their schedules. This required excellent communication between project leaders that ultimately helped make this extensive project simpler.



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