

CASE STUDY



PROJECT DETAILS

Project Name:

Techny Prairie
Activity Center

Location:

Northbrook, IL

Project Owner:

Northbrook Park District

Project Architect:

Wight & Company

Project Engineer:

McCluskey Engineering

General Contractor:

Wight & Company

Project Erector:

Creative Erectors

Product Manufacturer:

County Prestress, LLC

Date:

2020

Key Products:

Insulated Sandwich Walls

Insulated Sandwich Walls Blend Aesthetic Appeal with Energy Efficiency in Fitness and Recreation Center

Solutions: Short lead times reduce construction schedule; precast concrete maximizes usable indoor space and resists natural and manmade elements

A new fitness and recreation center was built in the Northbrook Park District to accommodate the northern Chicago suburb's growing population. The district wanted to build a state-of-the-art facility that would meet Net Zero Energy building requirements and provide sweeping views of the surrounding prairie and golf course.

Project leaders looked for an efficient, durable, and economical material that could handle high load capacities and incorporate a modern design. Insulated sandwich walls manufactured by County Prestress provided an optimal solution.

The enhanced thermal properties of the precast panels maintain a consistent, comfortable indoor temperature by absorbing and releasing heat to reduce peak energy consumption. Exceptional R-value ratings make insulated sandwich wall panels a sustainable choice that can help buildings meet the latest energy efficiency standards.

With enhanced production capacity, County Prestress was able to handle the casting, transportation, and installation of 97 insulated sandwich wall panels comprised of nearly 31,000 SF of precast concrete with unmatched professionalism and speed.

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Architectural panels were produced with form liners that enhanced the aesthetic appeal of the activity center's façade. From reproducing textures found in nature, like wood grains and stacked rocks, to custom artistic patterns, form liners demonstrate the design flexibility of precast concrete.

Construction professionals rely on County Prestress' Insulated Sandwich Walls for lasting performance and limitless versatility. The precast, prestressed wall panels offer proven resistance to inclement weather and heavy wear and can serve a prolonged service life of 60 years or more.

Precast, prestressed concrete construction materials arrive ready-to-install, and are ideal for projects with tight construction schedules and small crews. To ensure the project's success, County Prestress coordinated with engineering and design teams to help streamline every step of the process, from pre-construction planning through erection, and offer cost-saving, performance-enhancing suggestions.



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