



NEW MILLENNIUM
BUILDING SYSTEMS
Building a better steel experience.



DID YOU KNOW?

August 16, 2016

Expedited schedule and lightweight frame reduce expansion costs

The Presbyterian Hospital in Charlotte, NC expanded its cancer center vertically. While hospital operations continued, strategic planning to speed construction and attentive crews built the four-floor expansion.



New Millennium and Diversakore® collaborated with fabricator, Macuch Steel Products to produce a lightweight composite frame. Weight was important on this project because a four-floor expansion was being constructed on top of an operational cancer center. Quick and efficient construction was imperative, since patients and staff occupied the floors below. On an accelerated schedule, the total project took only 28 months to complete, saving more than \$1 million in operational and construction costs. The four-floor frame was erected in only 16 weeks.

The lightweight composite frame, built through collaboration with Diversakore®, was ideal for a vertical expansion. Clear spans of 21 ft. allowed for unshored concrete pours and fewer support columns to reduce costs.

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Logistics and staging planned around hospital operations

To meet the needs of the hospital, staging and logistics had to be carefully orchestrated with multiple just-in-time deliveries to keep the area around the hospital free of congestion. Versa-Floor™ featuring 7.5 Deep-Dek® Composite and 3.5-in. LWT cover was chosen to provide long-span spaces without support columns. Due to the hospital's dynamic needs, space-design flexibility was factored into the plan to allow for the maximum use of space. Low-profile floor plate and matched floor heights eliminated ramping between the new and existing wings to facilitate transit. In addition, a two-stage concrete pour eliminated shoring of transfer level, saving time and material costs.



Presbyterian Hospital's \$58-million F-wing includes 90-patient rooms, a 20-bed cardiac triage unit, and offices.

Determine the right system for your project

New Millennium advises architects and structural engineers on today's expanded range of steel building system options. Recommendations are guided by the design intent of the architect and by the building owner's need to minimize total project costs over the life of the building.



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