

Sleeve-Lock[®] Grout Sleeve Comes to Campus

SUMMARY

Established in 1964, Indiana University – Purdue University Fort Wayne (IPFW) is Indiana's 5th largest college campus. In 2009, the campus' ever-increasing student population grew nearly 11% over the previous year, setting a new enrollment record and creating demand for additional on-campus parking.

In early 2011, construction began on the school's third parking garage. The garage, located on the north end of campus, would provide much-needed parking near the newly dedicated Medical Education Center. The project, on a tight construction schedule, was slated to be finished before student's returned to the campus in the fall.

Coreslab Structures, the project's contractor, had been working closely with Dayton Superior over the past year on the development of a new grout sleeve prototype. Dayton Superior presented the final product, the Sleeve-Lock grout sleeve, to Coreslab. Based on the product's exceptional performance, Coreslab agreed to use it in the IPFW parking garage project.

CUSTOMER

Contractor: Coreslab Structures – Indianapolis, Indiana

PROJECT

- Indiana University – Purdue University Fort Wayne Parking Garage
- Fort Wayne, Indiana

CHALLENGE

As the project contractor, Coreslab Structures was charged with completing construction of a 1,000-car parking garage on the IPFW campus before the start of the 2011-2012 school year kicked off.

SOLUTION

Coreslab used Dayton Superior's Sleeve-Lock grout sleeve in the precast panels that were stacked in the structure's stairways. The design of the snug fit grout port tubes



Compared to other construction methods, precast structures have a rapid schedule, and Sleeve-Lock helped maintain it.



Coreslab Structures has facilities all over North America to manufacture precast concrete, prestressed concrete products, and Hollowcore slabs.

allowed for a quicker and more secure installation in production, eliminating the need for duct tape to hold the tubes in place. With other grout sleeve products, the center stops are often broken off requiring replacement of the grout sleeve. This was not an issue with Sleeve-Lock, due to the product's solid design.

"Overall, the Dayton Superior Sleeve-Lock grout sleeve was of great quality and saved production time," said Tim Meckes, Plant Manager with Coreslab Structures.

RESULTS

- Sleeve-Lock grout sleeve provided a quicker and easier installation in production
- Sleeve-Lock grout sleeve's solid design prevented center stops breakage, saving time and grout sleeve replacement costs on the job
- By sourcing their own PVC, Coreslab avoided long lead times often necessary for non-standard PVC
- Dayton Superior saved the precaster time by serving as a single source provider for grout and grout sleeves

RESOURCES

Learn more about the Dayton Superior Sleeve-Lock grout sleeve online at www.daytonsuperior.com.

DAYTON SUPERIOR SLEEVE-LOCK GROUT SLEEVE PRODUCT SPECIFICATIONS

- Ports are designed to accept standard 0.75" SCH40 PVC
- Double-ended, one-piece mechanical coupler designed to butt-splice reinforcing steel in concrete structures
- Achieves over 160% Fy, categorizing it as a Type 2 splice
- Available in rebar sizes #4 to #18
- Stacking feet are used to stabilize the product and act as a platform for a rebar chair

RELATED PRODUCTS FROM DAYTON SUPERIOR

- Dayton Superior Sleeve-Lock[®] Grout
- Dayton Superior Sleeve-Lock[®] 3/4" SCH40 PVC



Grout is pumped into the Sleeve-Lock Grout Sleeve through tubes to lock rebar in place.



Satellite view of construction courtesy of Google Maps.