

## Sleeve-Lock® Locks In Savings

### SUMMARY

The Opus Group, design/builders, and EdR, construction managers, planned a mixed-use development encompassing a full city block with two high-rise apartment towers with parking, and 31,000 square feet of retail and restaurant space at ground level with an additional 350 parking spaces. Concrete is the primary material for structural elements throughout the project, with post-tensioned slabs throughout.

### CUSTOMERS

- Contractor: Sundt Construction  
[www.sundt.com](http://www.sundt.com)
- Supplier: T.F. Valdez Construction Supply

### PROJECT

- 7th Street Mixed-Use Development
- 407 apartments and 31,000 sq ft of retail space

### CHALLENGE

Designed with a cast-in-place frame and post-tensioned slabs, having standard delay strips (empty gaps between slab sections) in the raised concrete slabs open until after most slab shrinkage occurs means that there is a delay in completing each level. Looking for solutions that would help their customer, Sundt Construction, to reduce labor and gain speed, Tony Valdez from T.F. Valdez Construction Supply approached Dayton Superior for ideas involving the specified grout sleeves.



*The Dayton Superior D410 Sleeve-Lock® Grout Sleeve is a one-piece mechanical coupler designed to butt-splice reinforcing steel in concrete structures.*



*Delays due to unusually wet weather, NCAA games and holiday events in the area made finding ways to optimize construction time essential.*



*Sleeve-Lock grout sleeves were epoxied in place along the edge of a post-tensioned raised slab.*



## SOLUTION

It was decided that utilizing Sleeve-Locks on a strip along the edge of a previously poured slab could provide a way to avoid having to come back to pour a small section of concrete between slabs.

- An epoxy application attaching the sleeve to the edge of the strip provided support to the grout sleeve
- Adding threads to port plugs secured conduit
- A tight gasket seal for rebar prevents leakage

## RESULTS

- Using grout sleeves, Sundt Construction was able to pour the delay strips at the same time as the rest of the deck
- The contractor estimates that using Sleeve-Lock in this application **saved them over 8 weeks on their schedule** — a huge savings in time and money
- A tight gasket seal for rebar prevents leakage

## RESOURCES

More information about the [Sleeve-Lock Grout Sleeve System](#) is available on the Dayton Superior web site.

- View an [introductory video](#)
- Read the [Sleeve-Lock brochure](#)



2400 sets of the D410 #4/#5 Sleeve-Lock grout sleeves utilized in an innovative manner saved the contractor 8 weeks in time and labor.

*Right: The very busy job site benefited from the speed gained in slab construction. Faster completion of slabs makes the movement of materials, equipment and workers faster, easier and safer.*

