



Sleeve-Lock is a full ultimate strength coupler that meets or exceeds building codes and self-centers for fast installation.

Sleeve-Lock® and Accubrace® Hit One Out of the Ballpark

SUMMARY

The new Marlins stadium, owned by Miami-Dade County, is a concrete and steel structure featuring a retractable roof, a natural grass playing field and seating for 37,000 spectators. While the Marlins hope the high number of seats translate to high ticket sales, it definitely translated into high demand for nearby parking. This demand was answered with the construction of two multi-level parking structures adjacent to the stadium utilizing tilt-up construction.

The contractor, Florida Tilt, Inc. faced some tight job site and geographical constraints on the project. However, thanks to Dayton Superior's Sleeve-Lock Grout Sleeve and the Accubrace Total Bracing System, these constraints were easily managed while also managing to save the contractor more than \$175,000 over the course of the project.

CUSTOMER

- White Cap
- Florida Tilt, Inc.

PROJECT

Marlins Stadium multi-level parking structures – Miami, Florida
Construction Category: Parking Garages

CHALLENGE

As originally designed, the tilt-up panels for the structural support walls were extremely heavy due to the height and the large amount of embedded steel. To erect these heavy panels, a large and expensive crane would be required. The project contractor, Florida Tilt, Inc, approached White Cap, a Dayton Superior distributor, to assist in developing a plan to reduce the panel weight and allow the use of a smaller crane.



Just 10 Accubrace supports were required for this very tall panel to meet hurricane wind load requirements.

SOLUTION

White Cap suggested that Florida Tilt, Inc. create a two-piece panel that could be stacked and connected with the Dayton Superior Sleeve-Lock grout sleeve. Then, for bracing solutions, White Cap suggested the Accubrace total bracing system. By using Accubrace, the number of required braces and helical ground anchors was reduced by 41%.

“By using the Sleeve-Lock grout sleeve, we could make two panels instead of one and use a more maneuverable and smaller crane while still complying with tough OSHA safety guidelines,” said Ray Cartaya, Owner and Vice-President of Operations at Florida Tilt. “This substitution allowed us to save over \$100K in crane rental costs, lost work time and decreased efficiencies associated with a larger crane.”

RESULTS

- A savings of over \$100,000 in crane rental costs
- Rental costs savings of approximately \$75,000
- 41% reduction in the number of braces and helical ground anchors required for the job
- Increased jobsite safety by reducing panel weight
- Smaller panels and a smaller crane allowed for greater jobsite maneuverability
- No pouring delays

RESOURCES

Learn more about Dayton Superior’s Sleeve-Lock Grout Sleeve and Accubrace Total Bracing System at www.daytonsuperior.com.



The contractor did not want to have to find room for a large crane on this tight job site or pay the high rent for one, so a plan was devised to reduce the panel height and join the stacked panels with Sleeve-Lock.

DAYTON SUPERIOR SLEEVE-LOCK GROUT SLEEVE PRODUCT SPECIFICATIONS

- One-piece mechanical coupler designed to butt-splice reinforcing steel in concrete structures
- Available in 7 sizes to accommodate deformed bar sizes #4 to #8
- Ports designed to accept standard 0.75" SCH40 PVC
- Has an integrated post to act as a precise stop when inserting rebar
- Positioning fins keep inserted rebar centered
- Made in America

DAYTON SUPERIOR ACCUBRACE TOTAL BRACING SYSTEM PRODUCT SPECIFICATIONS

- The system consists of three pieces – a 7'-0" Helical Ground Anchor (HGA), a connector and a 4'0" Helical extension for deeper installations
- The HGA brace achieves loads required to match wall brace loads up to 12,000# SWL and 15,000# SWL with the extension
- HGAs are utilized in place of “dead men”

RELATED PRODUCTS

- Accubrace® wall and floor plates
- Accubrace® standard transition brace connectors
- Sleeve-Lock® Grout