



# BUILDING STRENGTH™

**SLEEVE-LOCK®  
GROUTED REBAR SPLICING**

**CONCRETE  
CONSTRUCTION  
SOLUTIONS**

**BROCHURE**

 **DAYTON®  
SUPERIOR**

## Superior Performance That's Stronger, Faster and Smarter.

When it comes to bridges, highways and other vital precast applications, Dayton Superior has an unmatched track record of developing and delivering innovative solutions. For example, to improve the overall productivity of securing connections on the job site, Dayton Superior engineers developed Sleeve-Lock, a proven grouted rebar splicing solution that is *STRONGER*, *FASTER* and *SMARTER* than ever.

Sleeve-Lock changes the game in precast connections because this simple device eliminates the need to thread rebar on site or pay premiums for pre-threaded rebar, improves and expedites alignment with inner-sleeve rebar positioners and provides a quick and strong bond through a specifically-developed grout formulation.

## Engineering Focused Like No Other

Unlike most other precast component suppliers, Dayton Superior is engineering-driven. With a staff of expert engineers involved in the design and production of a complete portfolio of solutions, Dayton Superior provides customers with access to engineering support, an easy-to-use design library and years of experience and expertise in all applications. Perhaps that's why Dayton Superior products are the most "engineering-specified" in the industry.

- Solutions engineered to maximize performance, simplify installation, accelerate construction and reduce total costs.
- Staff of engineers with a unique knowledge in design and drawing, including proprietary drawings.
- Access to hands-on and on-line AIA-approved Architect and Professional Engineer Training Courses.

## Complete Precast Portfolio:

### The Best Choice Start to Finish

For strength, reliability and innovation, Dayton Superior provides the most complete portfolio for precasters — from start to finish. Thousands of Dayton Superior products and accessories address every step of the precast process including:

**Forming Systems****Form Releases and  
Bondbreakers****Bar Supports****Lifting Systems****Connecting Systems  
(Sleeve-Lock)**

Strength is critical in any precast application. However, highways and bridges that carry thousands of people every single day deserve components of the highest possible standard. Dayton Superior's Sleeve-Lock sets the standard. When engineers and contractors specify this *STRONG* solution, it's reassuring to know that Sleeve-Lock's integrated grout sleeve system:

- Is fully tested and compliant with ACI 318, ICC 133 and CALTRANS
- Exceeds type 2 grade 60 splice engineering performance criteria.
- Performs well in ICC seismic tests (details available through Dayton Superior Technical Services)
- Provides ultimate connection strength when used with high-performance, specially-formulated Sleeve-Lock Grout
- Uniquely supports the full range of rebar sizes from #4 – #18
- Is designed with award-winning engineering expertise and managed through stringent quality production processes



### **WORLDWIDE STRENGTH**

Dayton Superior products support some of the world's most distinctive construction projects including:

- China's East Sea Bridge (above)
- Phoenix Airport
- Bay Area Rapid Transit (BART)
- New York's Tower One in the World Trade Center
- Yankee Stadium
- Golden Gate Bridge
- Panama Canal.





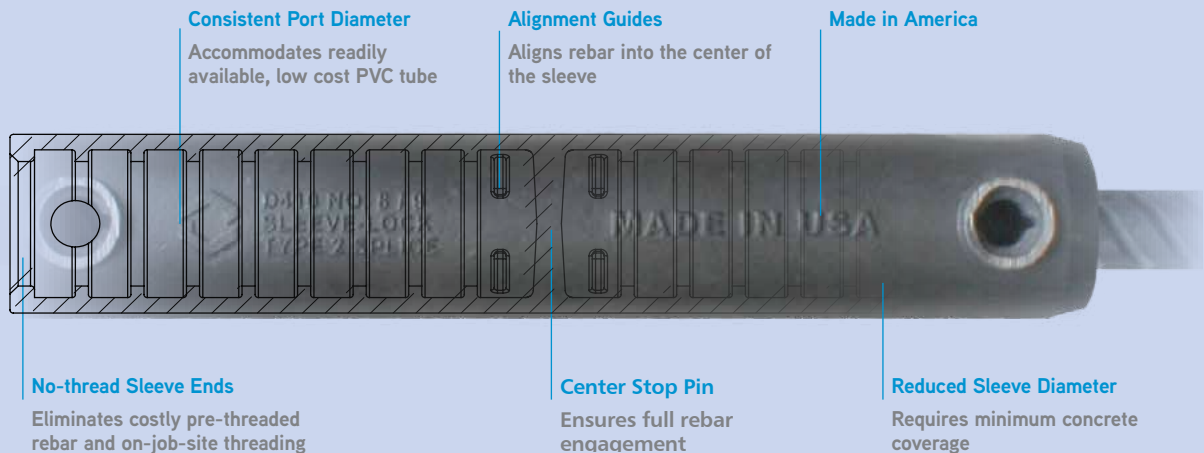
**Time is money**

If you save significant time in job planning, on-site management and the actual labor process, you can save significant money. The Sleeve-Lock integrated system is *FASTER* because it:

- Reduces on-job-site inventory of disparate parts and components due to uniform accessories
- Eliminates the need for pre-threaded or on-job-site threading of rebar
- Enables productivity-enhancing connections that are the fastest in the industry
- Uses unique inner-sleeve rebar positioners for fast and accurate bar alignment
- Supports accelerated bridge and highway construction — saving days of time and minimizing rush hour traffic congestion
- Is readily available through Dayton Superior’s distribution network — the most extensive network in the industry



**Sleeve-Lock: Engineered for Performance**



Stronger and faster might seem like enough. But, the Sleeve-Lock integrated system clearly outsmarts the competition. It's the right decision no matter your perspective — engineering, procurement, contractor or precast customer—our value propositions stand up to the very best. In terms of *SMART*, Sleeve-Lock:

- Lowers overall costs and increases productivity
- Simplifies inventory and on-site parts management through an integrated approach of uniform accessories
- Offers access to Dayton Superior's award-winning engineering expertise
- Supported by the most complete and reliable distribution network in the concrete industry
- Environmentally friendly with recyclable materials
- Made in the USA for rapid order fulfillment



Dayton Superior is proud to have participated in the building of the world famous New Yankee Stadium in the Bronx, NY. Precast used in projects of this scale assist in securing accelerated project completion incentives.

### Try Sleeve-Lock Today

Contact your local representative to schedule a demonstration, or find more Sleeve-Lock info at [www.daytonsuperior.com](http://www.daytonsuperior.com) today.

## Sleeve-Lock® Grout Stronger, Integrated Connections

The Sleeve-Lock integrated connection system includes the specifically-formulated and tested [Sleeve-Lock Grout](#) developed by Dayton Superior that:

### Maximizes Productivity

- More splices with the same mix
  - Less waste
  - Spend less time mixing, and more time pumping

### Achieves Rapid Strength

- 7,000 psi (48.3 mpa) in 1 day
- 10,000 psi (69.0 mpa) in 7 days
- 11,000 psi (75.8 mpa) in 28 days
- 1,000 psi (6.9 mpa) in 7 days — flexural strength
- 1,500 psi (10.3 mpa) in 28 days — flexural strength

### Offers Dependable Consistency

- Good flowable consistency
- Less chance for void space in the sleeve

## Set. Cast. Connect.

### Accelerate Project Completion

In addition to Sleeve-Lock, Dayton Superior offers a range of precast products, solutions and support every step of the way.

### Set

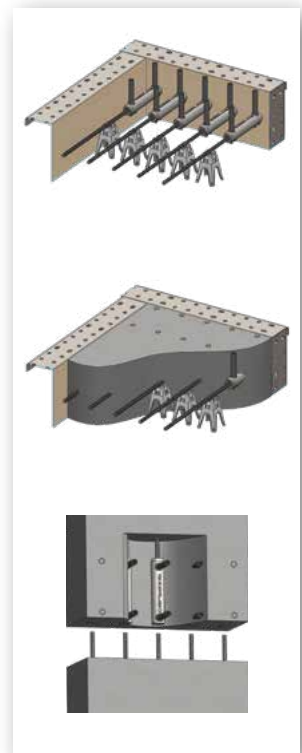
Chair and support solutions help set precast forms to simplify and strengthen set-up.

### Cast

Precast solutions simplify the casting and distribution of concrete forms. This includes chemicals that make the release effortless and anchors that facilitate mobility of concrete sections.

### Connect

Through a range of solutions, including the Sleeve-Lock system and the specifically-formulated Sleeve-Lock Grout, precast connections are simple and straightforward for faster, easier and cost-effective construction.



[Read the Sleeve-Lock Application Guide for more information.](#)





**DAYTON**<sup>®</sup>  
**SUPERIOR**

1125 Byers Road  
Miamisburg, OH 45342  
937-866-0711  
888-977-9600  
WWW.DAYTONSUPERIOR.COM

**BUILDING  
STRENGTH™**

DS501  
06/16

Copyright © 2016 Dayton Superior Corporation, All Rights Reserved.