Dowel Bar Problems

There are a number of mechanical dowel bar substitutes on the market today, but there’s only one with the LENTON® Tapered Thread.

- Prevents slip forming
- Protruding dowel bars cause safety hazards
- Makes form removal difficult and time consuming
- Damages costly formwork
- Can be exposed to damage (broken or bent)

Exposed dowels on the job site are a hazard. In addition, they can be bent or damaged.

Drilling forms for dowels is expensive, and form removal is difficult and time consuming.
LENTON® FORM SAVER Solutions

BEFORE CONCRETE POUR

Instead of drilling, simply nail the LENTON® FORM SAVER onto the form.

• Allows for easier slip, gang and jump forming
• Eliminates potential on-site safety hazards
• Eliminates drilling of expensive formwork
• Maintains rebar continuity independent of concrete cover
• Protects valuable forms by allowing stripping, cleaning and recycling of forms in less time
• Provides greater structural integrity
• Exceeds ACI® Type 1 and Type 2 splice requirements and other international building-code requirements

AFTER CONCRETE POUR

The form removal is quick and the protective metal disc is easily removed with a screwdriver.

With the disc removed, the clean internal threads are exposed.

The male end of the rebar is easily installed into the threaded coupler.

With a few quick turns, the rebar is locked in place.

The LENTON® FORM SAVER is manufactured with our patented LENTON taper threads:
• Positive lock, no-slip connection provides strength, consistency and reliability
• Eliminates cross-threading problems and job-site delays
• Requires 4 1/2 turns for complete installation
• Manufactured using an ISO® 9001:2008 registered quality system
• Self-aligning
LENTON® FORM SAVER

The easiest, most efficient on the market today

LENTON® FORM SAVER dowel bar assemblies provide continuity and structural integrity to reinforced concrete construction in segmental pour applications. The LENTON FORM SAVER is designed with our unique LENTON tapered thread system, factory installed thread protectors, and durable mounting plates for easy attachment to forms. The taper threaded design, like the complete family of LENTON couplers, provides load path continuity in tension, compression and stress reversal applications.

LENTON FORM SAVER mechanical splices provide superior performance well beyond the yield strength of the reinforcing bar. In fact, LENTON FORM SAVERS exceed the requirements for ACI® Type 1 and Type 2, and are recognized under ICC®ES report ER3967.

LENTON FORM SAVER is recognized by or meets the standards of:

• AASHTO®
• ACI 318 Type 1 and Type 2
• IAPMO-ES Report 0129
• IBC® Type 1 and Type 2
• ICC®-ES Report 3967
• Ontario MTO
• U.S. Army Corp of Engineers
• State Departments of Transportation Including:* 
  California  New Jersey  Tennessee
  Florida  New York  Texas
  Georgia  North Carolina  Washington
  Ohio  Oregon  West Virginia
  Illinois  Pennsylvania
  Kansas  Louisiana  Massachusetts
  Michigan  Maine  South Carolina
  Olmsted Lock and Dam
  Olmsted, IL
  Paris Hotel and Parking Structure
  PTI
  Pinnacle Condos
  Salt Lake City, UT
  Planet Hollywood Casino
  Las Vegas, NV
  Planet Hollywood Casino
  Las Vegas, NV
  Portland Air Traffic Control Tower
  Portland, OR
  Portland Tunnel
  Salt Lake City, UT
  Salt Lake City Air Traffic Control Tower
  Salt Lake City, UT
  Scott Air Force Base
  Belleville, IL
  SF Bay Bridge
  San Francisco, CA
  SF International Airport
  San Francisco, CA
  Staples Center
  Los Angeles, CA
  Turnberry Condominiums
  Las Vegas, NV
  Trump Tower
  Chicago, IL
  US Navy Drydock
  Norfolk, VA
  World Trade Center,
  Tower 1 (Freedom Tower)
  New York City, NY
  WWII Memorial
  Washington DC

*Contact ERICO if your state is not listed.
dowel bar substitute

LEXTON® FORM SAVER Benefits:
LEXTON FORM SAVER splices out perform dowel bars because of their ability to develop strength requirements independent of concrete cover. Their ease of installation, consistent performance, and durability add value and integrity to your structure.

LEXTON FORM SAVERS are ideal for:
- Slip and jump forming
- Segmental pours
- Stairwell applications
- Equipment hatch openings
- Tower crane openings
- Slabs
- Bridge decks
- Future extension*

Keyed holes allow you to first drive a nail into your form to hang the assembly. Remaining nails may then be driven providing quick and easy installation.

The LEXTON FORM SAVER nail plate is made of a heavy gauge steel.

Internal threads of the coupler are protected by a metal disc or plastic plug pressed into the nail plate. After the forms are removed, this disc can be knocked out exposing the contamination-free internal threads.

Nail Plate Dimensions:
- #4 - #8 2-1/4” x 2-1/4”
- #9 - #11 2-1/2” x 2-1/2”

LEXTON FORM SAVER is also available in epoxy and hot-dipped galvanized finishes.

Specifications:

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<th>ASTM® A775</th>
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<tbody>
<tr>
<td>Epoxy</td>
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</tr>
<tr>
<td>Hot Dipped Galvanized</td>
<td>ASTM A775**</td>
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* For “long-term” protection, ERICO recommends our plastic taper threaded plugs.
**Contact ERICO for availability of hot dip galvanized.
LENTON® FORM SAVER Product Line

LENTON FORM SAVER is available in sizes #4 - #11 (Metric sizes-12 mm through 36 mm) factory standard sizes (lengths) or in custom lengths. Unique bend configurations are also available. When ordering, please inquire about size availability per line item. LENTON FORM SAVER is available nationwide through our network of remote manufacturing centers, assuring prompt delivery.

How to Order by Part Number

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<tr>
<th>FS</th>
<th>SIZE</th>
<th>STYLE</th>
<th>LENGTH</th>
<th>X LENGTH</th>
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In Inches of “B” – (optional)
Indicates Bent Rebar – (optional)
Epoxy – (optional)

Indicates Coupler/Rebar (other styles available upon request)

**EXAMPLES:**
- FS4F20 #4 Coupler/Rebar with “D”
- Length of “20” (see drawing 1)
- FS5F6X10 #5 Coupler/Rebar with “A”
- Length of “6” with “B”
- Length of “10” (see drawing 2)
- FS7M36 #7 Threaded/Rebar with “C”
- Length of “36” (see drawing 3)

### LENTON FORM SAVER

**Rebar Designation**
- Metric (mm)
  - Canada
  - Soft Metric

**Taper Threaded Rebar**
- (Male)¹

**Part No.**
- Length “C” (in) (mm)

**Taper Threaded Rebar**
- (Female)²

**Part No.**
- Length “D” (in) (mm)

### Standard Hooks and Bends

- **180° Hooks**
- **90° Hooks**
- **Bar Engagement**
- **Coupler Length**

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*ACI* 318 Chapter 7.1

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View gallery of product images.
LENTON® FORM SAVER Mechanical Splices

How to Order:
To order the correct LENTON® FORM SAVER mechanical splices for your construction applications, please call ERICO toll free at 1-800-248-2677. Locations are listed on back cover.

How to Specify:
Specific: Mechanical connections shall be LENTON FORM SAVERS as manufactured by ERICO.
Generic: The mechanical connection shall meet building code requirements of developing in tension or compression as required by local norms/codes. The mechanical connection shall be positive-locking, taper-threaded-type coupler manufactured from high quality steel. The bar ends must be taper threaded using the manufacturer’s bar threading equipment to ensure proper taper and thread engagement. Bars shall be installed to the manufacturer’s requirements. The couplers shall be manufactured using registered quality systems around the world.

A Look At ERICO Concrete Reinforcement Products
ERICO has been a pioneer in the concrete construction industry for more than 40 years. We changed rebar splicing, first with CADWELD® mechanical connections, then with the LENTON® mechanical splicing system – the #1 mechanical connector in the world. ERICO now offers a wide range of mechanical splices for almost any construction need:

- CADWELD® — Premiere mechanical splicing system
- LENTON® FORM SAVER — Ideal for segmental pour
- LENTON® INTERLOK — Ideal for precast structures
- LENTON® QUICK WEDGE — Ideal for quick retrofit
- LENTON® SPEED SLEEVE — Ideal for compression situations
- LENTON® TERMINATOR — Ideal alternative to hooked rebar anchorage
- LENTON® LOCK — Ideal for in-situ splices

The entire ERICO line of mechanical rebar splices has replaced many conventional splicing systems, such as welding and lap splicing. Unlike butt welding, ERICO products require no special training or external power source, are quicker to install and inspect, reduce crane time, improve the tensile strength of the splice and can be installed in any weather.

As your rebar splicing specialist, ERICO offers you the expertise you need for all your rebar splicing projects.

Call ERICO Toll-Free at 1-800-248-2677 or fax 1-800-462-4712 for technical specifications and additional information.